

S&P Dow Jones Indices

A Division of **S&P Global**

S&P Global Bond Indices *Methodology*

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Introduction

Index Objective

The S&P Global Bond Indices consist of sovereign, quasi, & foreign government and corporate bond indices measuring the market-value-weighted performance of local currency bond markets.

Index Families

The index family includes the following:

- **S&P Global Developed Aggregate Ex-Collateralized Bond Index.** The index measures the performance of investment grade debt issued by sovereign, quasi-sovereign, foreign government, and corporate entities in the native currencies of the developed countries listed in this document's *Available Composites* section. This index excludes collateralized bonds.
 - **S&P Global Developed Sovereign Bond Index.** The index measures the performance of developed-market sovereign debt.
 - **S&P Global Developed Sovereign Ex-U.S. Bond Index.** The index measures the performance of developed-market sovereign debt and excludes U.S. Treasury bonds.
- **S&P Eurozone Developed Sovereign Bond Index.** The index is a sub-index of the S&P Pan-Europe Developed Sovereign Bond Index and measures the performance of developed-market Eurozone sovereign debt.
- **S&P Eurozone Sovereign Bond Index.** The index measures the performance of both developed-market and emerging-market Eurozone sovereign debt.
- **S&P Global Developed Corporate Bond Index.** The index is a subset of the S&P Global Developed Aggregate Ex-Collateralized Index and tracks the performance of developed-market corporate bonds.
 - **S&P Global Developed Corporate Infrastructure Bond Index.** The index is a subset of the S&P Global Developed Corporate Bond Index and tracks the performance of investment grade infrastructure corporate bonds in the native currencies of the developed countries listed in *Available Composites*.
 - **S&P Global Developed Corporate Infrastructure Bond Select Min Par Index.** The index is a subset of the S&P Global Developed Corporate Infrastructure Bond Index meeting a Minimum Par Amount, which is detailed in this document's *Index-Specific Eligibility Factors* section.
 - **S&P Solvency II Capital Efficiency Corporate Bond Index.** The index is a subset of the S&P Global Developed Corporate Infrastructure Bond Select Min Par Index and tracks the performance of bonds meeting the eligibility criteria under Solvency II. Solvency II eligibility is subject to a recurring independent assessment made by Deloitte Tax & Consulting S.à r.l.
- **S&P U.S. Aggregate Bond Index.** The index measures the performance of the U.S. dollar-denominated investment grade U.S. fixed income market, including U.S. Treasuries, quasi-governments, supranational and non-U.S. governments and agencies, corporates, covered bonds, residential mortgage pass-throughs and taxable municipal bonds. Non-residential mortgage collateralized debt, such as commercial mortgage-backed securities, asset-backed securities, and all collateralized mortgage obligations, are excluded from the index.

- **S&P U.S. Ultra Short Treasury Bill & Bond Index.** The index measures the performance of U.S. Treasury bills and Treasury bonds and notes with less than one remaining year to maturity.
- **S&P U.S. Government Bond Index.** The index measures the performance of U.S. dollar-denominated U.S Treasury and agency securities.
- **S&P U.S. Government & Corporate Bond Index.** The index measures the performance of U.S. dollar-denominated U.S Treasury, agency and U.S. investment grade corporate securities.
- **S&P U.S. Government / Credit Bond Index.** The index measures the performance of the U.S. dollar-denominated investment grade U.S. fixed income market, including U.S. Treasuries, quasi-governments, supranational and non-U.S. governments and agencies, corporates, and taxable municipal bonds.
- **S&P U.S. Dollar Global Investment Grade Corporate Bond Index.** The index measures the performance of U.S. dollar-denominated investment grade corporate bonds.
- **S&P U.S. Dollar Global Investment Grade Corporate Bond Crossover Rated Index.** The index measures the performance of U.S. dollar-denominated corporate bonds whose lowest available rating from S&P, Moody's and Fitch falls on or between BB-/Ba3/BB- and BBB+/Baa1/BBB+.
- **S&P U.S. Investment Grade Corporate Bond Index.** The index measures the performance of U.S. dollar-denominated investment grade corporate bonds issued in the U.S. by companies whose country of risk¹ use official G-10 currencies, excluding those countries that are members of the United Nations Eastern European Group (EEG).
- **Dow Jones Equal Weight U.S. Issued Corporate Bond Index.** The index measures equal weighted performance of a subset of the S&P U.S. Investment Grade Corporate Bond Index which contains one bond per issuer and has a maximum of 100 total constituents. Hybrid instruments and securities with deferred interest payments are excluded. For each issuer, the bond with the largest par amount outstanding is considered for inclusion. In cases of ties, the bond with the most recent issue date is considered.
- **S&P U.S. Foreign Issued Investment Grade Corporate Bond Index.** The index measures the performance of U.S. dollar-denominated investment grade corporate bonds which meet at least one of the following criteria:
 - Issued outside of the U.S.
 - Issued by a company whose country of risk falls outside the G-10 currencies.
 - Issued by a company whose country of risk is included in the United Nations Eastern European Group (EEG).
- **S&P U.S. Catholic Values Aggregate Bond Index.** The index measures the performance of a combination of the S&P U.S. Government Bond Index, S&P 500 Catholic Values Investment Grade Bond Index², and S&P U.S. Mortgage-Backed Securities Index. At each rebalancing, index weights are assigned so that the sector weights for the 11 Corporate GICS sectors are matched to the corresponding GICS sector weights in the S&P U.S. Aggregate Bond Index, with non-corporate bonds re-weighted proportionally to maintain the index's original market value. Additionally, S&P Dow Jones Indices consults with Father Séamus Finn O.M.I., Chief of Faith Consistent Investing for the Oblate International Pastoral Investment Trust, on issues related to the index methodology's consistency with the Socially Responsible Investment Guidelines of the USCCB.
- **S&P U.S. Dollar Global High Yield Corporate Bond Index.** The index measures the performance of U.S. dollar-denominated high yield corporate bonds.

¹ Country of Risk data considers revenue by geography, company headquarters country, security listing country and filing currency country to assign country of risk. If country of risk data is not available, country of domicile is used.

² For information on the S&P 500 Catholic Values Investment Grade Bond Index please refer to the S&P 500 Bond Index Methodology available at www.spglobal.com/spdji/.

- **S&P U.S. High Yield Corporate Bond Index.** The index measures the performance of U.S. dollar-denominated high yield corporate bonds issued in the U.S. by companies whose country of risk use official G-10 currencies, excluding those countries that are members of the United Nations Eastern European Group (EEG).
 - **S&P U.S. High Yield Corporate Distressed Bond Index.** The index measures the performance of bonds in the S&P U.S. High Yield Corporate Bond Index with a minimum option adjusted spread of 1,000 basis points.
- **S&P Canada All Bond Index.** The index measures the performance of the Canadian fixed income market and is comprised of the S&P Canada Aggregate Bond Index and the S&P Canada High Yield Corporate Bond Index.
- **S&P Canada Aggregate Bond Index.** The index measures the performance of the investment grade Canadian fixed income market, including government, provincial and municipal, corporate, covered bond, and collateralized securities.
 - **S&P Canada Government Bond Index.** The index measures the performance of Canadian dollar denominated government, provincial and municipal investment grade securities.
- **S&P Australia Aggregate Bond Index.** The index measures the performance of the investment grade Australian fixed income market, including government, provincial and municipal, corporate, covered bond, and collateralized securities
- **S&P Denmark Aggregate Bond Index.** The index measures the performance of the investment grade Danish fixed income market, including sovereign, quasi and foreign government, corporate and collateralized securities.
- **S&P New Zealand Aggregate Bond Index.** The index measures the performance of the investment grade New Zealand fixed income market, including sovereign, quasi and foreign government, corporate and collateralized securities.
- **S&P Norway Aggregate Bond Index.** The index measures the performance of the investment grade Norwegian fixed income market, including sovereign, quasi and foreign government, corporate and collateralized securities.
- **S&P Hungary Sovereign Bond Index.** The index measures the performance of Hungarian Forint denominated sovereign debt.

Available Composites

The S&P Global Aggregate Bond Indices include the following:

Sovereign

- S&P Australia Sovereign Bond Index
- S&P Austria Sovereign Bond Index
- S&P Belgium Sovereign Bond Index
- S&P Canada Sovereign Bond Index
- S&P Cyprus Sovereign Bond Index
- S&P Czech Republic Sovereign Bond Index
- S&P Denmark Sovereign Bond Index
- S&P Estonia Sovereign Bond Index
- S&P Eurozone Developed Sovereign Bond Index
- S&P Eurozone Sovereign Bond Index
- S&P Finland Sovereign Bond Index
- S&P France Sovereign Bond Index
- S&P Germany Sovereign Bond Index
- S&P Global Developed Sovereign Bond Index
- S&P Japan Sovereign Bond Index
- S&P Latvia Sovereign Bond Index
- S&P Lithuania Sovereign Bond Index
- S&P Luxembourg Sovereign Bond Index
- S&P Malta Sovereign Bond Index
- S&P Netherlands Sovereign Bond Index
- S&P New Zealand Sovereign Bond Index
- S&P Norway Sovereign Bond Index
- S&P Pan-Europe Developed Sovereign Bond Index
- S&P Portugal Sovereign Bond Index³
- S&P/BVL Peru Sovereign Bond Index
- S&P Slovakia Sovereign Bond Index
- S&P Slovenia Sovereign Bond Index
- S&P South Korea Sovereign Bond Index

- S&P Greece Sovereign Bond Index³
- S&P Iceland Sovereign Bond Index
- S&P Ireland Sovereign Bond Index
- S&P Israel Sovereign Bond Index
- S&P Italy Sovereign Bond Index

- S&P Spain Sovereign Bond Index
- S&P Sweden Sovereign Bond Index
- S&P Switzerland Sovereign Bond Index
- S&P U.K. Gilt Index
- S&P U.S. Treasury Bond Index

Quasi & Foreign Government

- S&P Australia Quasi & Foreign Government Bond Index
- S&P Canada Provincial & Municipal Bond Index
- S&P Denmark Quasi & Foreign Government Bond Index
- S&P Eurozone Quasi & Foreign Government Bond Index
- S&P Japan Quasi & Foreign Government Bond Index
- S&P New Zealand Quasi & Foreign Government Bond Index
- S&P Norway Quasi & Foreign Government Bond Index
- S&P Sweden Quasi & Foreign Government Bond Index
- S&P Switzerland Quasi & Foreign Government Bond Index
- S&P Taxable Municipal USD250 Million Par Bond Index
- S&P U.K. Quasi & Foreign Government Bond Index
- S&P U.S. Agency Index
- S&P U.S. Supranational & Foreign Government Bond Index
- S&P U.S. Supranational & Foreign Government Bond Index

Investment Grade Corporate

- S&P Australia Investment Grade Corporate Bond Index
- S&P Canada Investment Grade Corporate Bond Index
- S&P Denmark Investment Grade Corporate Bond Index
- S&P Eurozone Investment Grade Corporate Bond Index
- S&P Japan Investment Grade Corporate Bond Index
- S&P New Zealand Investment Grade Corporate Bond Index
- S&P Norway Investment Grade Corporate Bond Index
- S&P Sweden Investment Grade Corporate Bond Index
- S&P Switzerland Investment Grade Corporate Bond Index
- S&P U.K. Investment Grade Corporate Bond Index
- S&P U.S. Dollar Global Investment Grade Corporate Bond Index
- S&P U.S. Investment Grade Corporate Bond Index
- S&P U.S. Foreign Issued Global Investment Grade Corporate Bond Index
- S&P U.S. Foreign Issued Global Investment Grade Corporate Bond Index

S&P Norway Aggregate Bond Index

- S&P Norway Collateralized Bond Index
- S&P Norway Investment Grade Corporate Bond Index
- S&P Norway Quasi and Foreign Government Bond Index
- S&P Norway Sovereign Bond Index

S&P Canada All Bond Index

- S&P Canada Aggregate Bond Index
- S&P Canada High Yield Corporate Bond Index

S&P Canada Aggregate Bond Index

- S&P Canada Collateralized Bond Index
- S&P Canada Investment Grade Corporate Bond Index
- S&P Canada Provincial & Municipal Bond Index
- S&P Canada Sovereign Bond Index

S&P Canada Government Bond Index

- S&P Canada Sovereign Bond Index
- S&P Canada Provincial & Municipal Bond Index

S&P U.S. Aggregate Bond Index

- S&P Taxable Municipal USD250 Million Par Bond Index
- S&P U.S. Agency Index
- S&P U.S. Covered Bond Index
- S&P U.S. Dollar Global Investment Grade Corporate Bond Index
- S&P U.S. Mortgage-Backed Securities Index
- S&P U.S. Supranational & Foreign Government Bond Index
- S&P U.S. Treasury Bond Index

S&P U.S. Government Bond Index

- S&P U.S. Treasury Bond Index
- S&P U.S. Agency Index

³ Greece and Portugal lost Investment Grade status in May 2010 and December 2011 respectively and were removed from the Global Developed Aggregate Ex-Collateralized Bond Index. Portugal was re-included in the Global Developed Aggregate Ex-Collateralized Bond Index in December 2020.

S&P U.S. Dollar Global High Yield Corporate Bond Index

- U.S. High Yield Corporate Bond Index

S&P U.S. Government & Corporate Bond Index

- S&P U.S. Treasury Bond Index
- S&P U.S. Dollar Investment Grade Corporate Bond Index
- S&P U.S. Agency Index

S&P U.S. Government / Credit Bond Index

- S&P U.S. Treasury Bond Index
- S&P U.S. Agency Index
- S&P Taxable Municipal USD250 Million Par Bond Index
- S&P U.S. Dollar Global Investment Grade Corporate Bond Index
- S&P U.S. Supranational & Foreign Government Bond Index

S&P Asia Pacific Bond Index

- S&P Australia Collateralized Bond Index
- S&P Australia Investment Grade Corporate Bond Index
- S&P Australia Quasi & Foreign Government Bond Index
- S&P Australia Sovereign Bond Index
- S&P Japan Investment Grade Corporate Bond Index
- S&P Japan Quasi & Foreign Government Bond Index
- S&P Japan Sovereign Bond Index
- S&P New Zealand Investment Grade Corporate Bond Index
- S&P New Zealand Quasi & Foreign Government Bond Index
- S&P New Zealand Sovereign Bond Index
- S&P New Zealand Collateralized Bond Index
- S&P South Korea Sovereign Bond Index

S&P Australia Aggregate Bond Index

- S&P Australia Collateralized Bond Index
- S&P Australia Investment Grade Corporate Bond Index
- S&P Australia Quasi & Foreign Government Bond Index
- S&P Australia Sovereign Bond Index

S&P New Zealand Aggregate Bond Index

- S&P New Zealand Collateralized Bond Index
- S&P New Zealand Investment Grade Corporate Bond Index
- S&P New Zealand Quasi & Foreign Government Bond Index
- S&P New Zealand Sovereign Bond Index

S&P Denmark Aggregate Bond Index

- S&P Denmark Sovereign Bond Index
- S&P Denmark Investment Grade Corporate Bond Index
- S&P Denmark Collateralized Bond Index
- S&P Denmark Quasi & Foreign Government Bond Index

Indices calculate if there are eligible bonds.

Supporting Documents

This methodology is meant to be read in conjunction with supporting documents providing greater detail with respect to the policies, procedures and calculations described herein. References throughout the methodology direct the reader to the relevant supporting document for further information on a specific topic. The list of the main supplemental documents for this methodology and the hyperlinks to those documents is as follows:

Supporting Document	URL
S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology	Fixed Income Policies & Practices
S&P Dow Jones Indices' Fixed Income Index Mathematics Methodology	Fixed Income Index Mathematics Methodology
S&P Dow Jones Indices' Global Industry Classification Standard (GICS) Methodology	GICS Methodology

This methodology was created by S&P Dow Jones Indices to achieve the aforementioned objective of measuring the underlying interest of each index governed by this methodology document. Any changes to or deviations from this methodology are made in the sole judgment and discretion of S&P Dow Jones Indices so that the indices continue to achieve their objectives.

Eligibility Criteria

There are four main sector categories eligible for inclusion for each country and currency index: Sovereign, Corporate, Quasi & Foreign Government, and Collateralized. The country section below outlines the sector categories and specific eligibility rules such as currency, minimum par outstanding, data sources, and market of issue.

The countries included in the S&P Global Developed Sovereign Bond Index family are classified by S&P Dow Jones Indices as developed markets. S&P Dow Jones Indices conducts a rigorous country classification process to evaluate the status of global markets.

For more information about country classification as it pertains to index inclusion, please refer to the Country Eligibility chapter of S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology.

S&P Sovereign Indices. The indices measure the performance of debt publicly issued by each sovereign member country in its own native currency in the domestic or Eurobond markets. The sector is subdivided into Bill and Bond.

S&P Corporate Bond Indices. The indices measure the performance of debt issued by any corporation regardless of domicile in the native currency of each country. The sector is subdivided into investment grade and high yield. Corporate securities guaranteed by either a government or government agency are ineligible. U.S. corporate sub-indices employ a country of risk classification for further country-based eligibility criteria. Please see *Index Families* for more information.

S&P Quasi & Foreign Government Bond Indices. The indices measure the performance of debt issued by a government agency, local government, foreign governments, supranational, and corporate securities guaranteed by the government or a government agency, in the native currency of each country. These indices exclude the bonds issued by central governments of countries in their own domestic currency. In some markets indices may be calculated for subdivisions of the sector. For example, in the U.S. there are separate indices for Muni, Agency and Supranational & Foreign Government.

S&P Collateralized Bond Indices. The indices measure the performance of investment grade collateralized debt issued in the native currency of each country. Non-residential mortgage collateralized debt, such as commercial mortgage-backed securities and asset-backed securities, as well as all collateralized mortgage obligations are included in the index. Residential mortgage backed securities are included in the S&P U.S. Aggregate Bond Index. Please refer to *Available Composites* for a listing of indices, including collateralized bond indices.

For S&P Dow Jones Indices' current list of developed and emerging market countries, please refer to the Country Eligibility section of S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology.

General Eligibility Factors

Country and Market of Issue. Sovereign Bonds must be debt issued by the central governments of each country and must be issued in the domestic or Eurobond markets. Other Bonds (non-sovereign bonds) have no restrictions on the issuer's country of domicile and must be issued in the domestic or Eurobond markets.

Currency. Sovereign bonds must be issued in the domestic currency of the issuer. Other bonds must be issued in the native currency of each country.

Coupon Type. The following coupon types are eligible:

- Fixed Rate
- Step-up
- Zero Coupon
- Fixed-to-Float

Optionality. Bullets, callable and puttable securities are included. Fixed-to-floating rate securities qualify if they are in the fixed phase and have at least one month until the date they transition to floating.

Exclusions. The following bond types are specifically excluded from the index:

- Bills
- Sukuk bonds
- Floating-rate instruments
- Convertible bonds⁵
- STRIPS
- Inflation-linked instruments
- Sinkable bonds⁴

Global Receipts. For U.S. corporate bonds, if both a domestic issuance and global receipt from a foreign issuer are available, the index will include the global receipt.

Maturity. The maturity date must be greater than one month from the rebalancing date. No bond matures in the index.

Settlement. Bonds issued up to the rebalancing reference date (regardless of the settlement date). Standard index settlement convention is same-day (e.g., T+0), unless otherwise specified. For month-ends that fall on a weekend, the interest accrued during the month will be reflected within the calendar month, regardless of settlement convention. For rates that are not available at month-end (e.g., a rate with an unknown reset), the accrual will be based on the current rate and adjusted the first business day of the next month.

Credit Rating Quality. Criteria are as follows:

- **New Issues.** New issues must be rated by at least one rating agency (S&P, Moody's, or Fitch) to be considered at the next rebalancing.
- **Non-rated and Defaulted Bonds.** Bonds that are no longer rated or have defaulted are removed at the next rebalancing.
- **Investment Grade.** The minimum credit rating for inclusion is BBB-/Baa3/BBB-. The lowest of all available ratings (S&P, Moody's, and Fitch) is used as the index rating.
- **High Yield.** The maximum credit rating for inclusion is BB+/Ba1/BB+. The lowest of all available ratings (S&P, Moody's, and Fitch) is used as the index rating.

The issuer rating may be applied in place of the bond level ratings. For example, a sovereign bond index may apply the long term foreign currency issuer rating in place of each sovereign bond issue.⁶

For ratings-based sub-indices, the above rules are applied to the appropriate ratings band.

Pricing. Bid side pricing – LSEG.⁷ Bonds not priced by the designated pricing source are ineligible for index inclusion.

For information on price capture times, please refer to Appendix C of S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology.

⁴ Sinkable bonds are only excluded in the S&P Asia Pacific Bond Indices.

⁵ Bonds with convertible features (including Contingent Convertibles) are excluded from the indices.

⁶ Prior to July 2016, S&P issuer credit ratings were used to determine sovereign ratings in the S&P Global Developed Aggregate Ex-Collateralized Bond Index.

⁷ J.P. Morgan Securities LL prices mortgage-backed securities; Securities Evaluations | ICE Data Services prices taxable municipal bonds.

Country/Region-Specific Eligibility Factors

Additional index-specific currency of issue, minimum notional outstanding, and market of issue eligibility factors for certain indices.

S&P Asia Pacific Countries

	Currency	Market of Issue	Sovereign	IG Corporate	Quasi & Foreign	Collateralized	HY Corporate
Australia	AUD	Domestic or Eurobond	1bn	250mm	250mm	250mm	100mm
Hong Kong	HKD		300mm	300mm	300mm	--	--
Japan	JPY		100bn	20bn	20bn	--	--
New Zealand	NZD		1bn	100mm	100mm	100mm	--
Singapore	SGD		1.5bn	100mm	--	--	--

Eurozone (Euro Monetary Union). The Eurozone is comprised of both developed and emerging market member nations that have adopted the euro as the national currency. While the sovereign markets are defined in the context of country membership, the Investment Grade Corporate and Quasi & Foreign Government indices are based on issuance in the common currency.

Eurozone Developed Countries

- Austria
- Belgium
- Cyprus
- Estonia
- Finland
- France
- Germany
- Greece⁸
- Ireland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Malta
- Netherlands
- Portugal
- Slovakia
- Slovenia
- Spain

Global Developed Countries

- Australia
- Canada
- Hong Kong
- Israel
- Japan
- New Zealand
- Singapore
- South Korea
- Taiwan
- U.S
- Pan-Europe Developed Countries

S&P Eurozone and Euro Bond Indices

Index	Currency of Issue	Minimum Notional Outstanding	Market of Issue
S&P Eurozone Sovereign Bond Index	EUR	1bn	Domestic or Eurobond
S&P Eurozone Developed Sovereign Bond Index			
S&P Eurozone Investment Grade Corporate Bond Index		250mn	
S&P Eurozone Quasi & Foreign Government Bond Index			

S&P Developed Europe (non-euro) Bond Indices. Developed European countries using their own national currency.

⁸ Greece was historically part of the S&P Eurozone Developed Sovereign Bond Index series until March 2012, when the outstanding sovereign debt was exchanged as part of the bail-out package agreed to by European Union member states. Greece was re-included in the S&P Eurozone Developed Sovereign Bond Index in December 2020.

Index	Currency of Issue	Minimum Notional Outstanding	Market of Issue
S&P Czech Republic Sovereign Bond Index	CZK	7.5bn	Domestic or Eurobond
S&P Denmark Sovereign Bond Index	DKK	1bn	
S&P Denmark Investment Grade Corporate Bond Index		250mn	
S&P Denmark Quasi & Foreign Government Bond Index			
S&P Denmark Collateralized Bond Index			
S&P Iceland Sovereign Bond Index	ISK	10bn	
S&P Norway Sovereign Bond Index	NOK	1bn	
S&P Norway Investment Grade Corporate Bond Index		250mn	
S&P Norway Quasi & Foreign Government Bond Index			
S&P Norway Collateralized Index			
S&P Sweden Sovereign Bond Index	SEK	1bn	
S&P Sweden Investment Grade Corporate Bond Index		250mn	
S&P Sweden Quasi & Foreign Government Bond Index			
S&P Switzerland Sovereign Bond Index	CHF	1bn	
S&P Switzerland Investment Grade Corporate Bond Index		250mn	
S&P Switzerland Quasi & Foreign Government Bond Index			
S&P U.K. Gilt Index	GBP	1bn	
S&P U.K. Investment Grade Corporate Bond Index		250mn	
S&P U.K. Quasi & Foreign Government Bond Index			

S&P U.S. Bond Indices. The eligibility requirement for each of the indices forming the aggregate bond index is detailed in each index's respective methodology document available at www.spglobal.com/spdji/.

Index	Currency of Issue	Minimum Notional Outstanding	Market of Issue
S&P U.S. Treasury Bond Index	USD	1bn	Domestic or Eurobond
S&P Taxable Municipal USD250 Million Par Bond Index		250mm	
S&P U.S. Supranational & Foreign Government Bond Index			
S&P U.S. Agency Index			
S&P U.S. Covered Bond Index.			
S&P U.S. Dollar Global Investment Grade Corporate Bond Index			
S&P U.S. Mortgage-Backed Securities Index			
S&P U.S. Dollar Global High Yield Corporate Bond Index		100mm	

S&P Canada Bond Indices

Index	Currency of Issue	Minimum Notional Outstanding	Market of Issue
S&P Canada Sovereign Bond Index	CAD	1bn	Domestic or Eurobond
S&P Canada Investment Grade Corporate Bond Index		250mm	
S&P Canada Provincial & Municipal Bond Index		100mm	
S&P Canada Collateralized Bond Index			
S&P Canada High Yield Corporate Bond Index			

S&P/BVL Peru Sovereign Bond Indices

Index	Currency of Issue	Min Notional Outstanding	Market of Issue
S&P/BVL Peru Sovereign Bond Index	PEN	100mm	Domestic or Eurobond
S&P/BVL Peru Sovereign LargeCap 13+ Month Bond Index (PEN)	PEN	3bn	

Israel Sovereign Bond Index

Index	Currency of Issue	Min Notional Outstanding	Market of Issue
S&P Israel Sovereign Bond Index	ILS	1bn	Domestic or Eurobond

Index-Specific Eligibility Factors

S&P Global Developed Sovereign Bond Indices. For all applicable countries, government holdings are excluded in determining par amount outstanding for index eligibility purposes.

S&P Global Developed Corporate Infrastructure Bond Index. To be eligible, securities in the S&P Global Developed Corporate Bond Index must satisfy at least one of the following criteria:

1. Bonds issued by issuers classified as part of the following Global Industry Classification Standard (GICS) sub-industries:

GICS Code	GICS Sub-Industry
55101010	Electric Utilities
55103010	Multi-Utilities
10102040	Oil & Gas Storage & Transportation
55102010	Gas Utilities
55104010	Water Utilities
20305010	Airport Services
20305020	Highways & Railtracks
20305030	Marine Ports & Services

2. Bonds issued by constituents of the Dow Jones Brookfield Global Infrastructure Composite Index.

S&P Global Developed Corporate Infrastructure Bond Select Min Par Index. To be eligible for index inclusion in this index, S&P Global Developed Corporate Infrastructure Bond Index constituents must satisfy the following:

FX	Minimum Par Amount	FX	Minimum Par Amount	FX	Minimum Par Amount
USD	500,000,000	JPY	40,000,000,000	SEK	5,000,000,000
CAD	500,000,000	GBP	500,000,000	DKK	5,000,000,000
EUR	500,000,000	HKD	6,000,000,000	KRW	2,000,000,000,000
AUD	500,000,000	NOK	5,000,000,000	ILS	2,000,000,000
CHF	500,000,000	NZD	500,000,000	SGD	500,000,000

S&P Solvency II Capital Efficiency Corporate Bond Index. The index is a subindex of the S&P Global Developed Corporate Infrastructure Bond Select Min Par Index. Solvency II eligibility is subject to a monthly and an annual independent assessment made by Deloitte Tax & Consulting S.à r.l. Eligibility as Qualifying Infrastructure Company Investment ("QICI") is based on a series of criteria defined by the EU Commission Delegated Regulation 2016/467, and EU Commission Delegated Regulation 2017/1542. The criteria for the assessment include infrastructure and location, cash flow stability, investors protection, and risk of default. Further information can be found here: <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R1542&from=DE>.

The monthly assessment reviews new issuers in the S&P Global Developed Corporate Infrastructure Bond Select Min Par Index to determine if they satisfy the eligible criteria under Solvency II. Securities from issuers that meet the Solvency II eligibility will enter the index if all other criteria are met as at the rebalance reference date.

The annual assessment will review all issuers of the S&P Global Developed Corporate Infrastructure Bond Select Min Par Index to determine their current Solvency II eligibility. The results of the annual assessment are implemented with the July monthly rebalancing and made effective during August compositions.

Index Construction

Index Calculations

Except for the Dow Jones Equal Weight U.S. Issued Corporate Bond Index, and S&P U.S. Catholic Values Aggregate Bond Index, the indices are market value weighted.

- **Dow Jones Equal Weight U.S. Issued Corporate Bond Index.** At each rebalancing the index is equal-weighted.
- **S&P U.S. Catholic Values Aggregate Bond Index.** At each rebalancing, the index weights are assigned as follows:
 - Sector weights for the 11 Corporate GICS sectors are matched to the corresponding GICS sector weights in the S&P U.S. Aggregate Bond Index.
 - Non-corporate bonds are re-weighted proportionally to maintain the index's original market value.

The total return is calculated by aggregating the interest return, reflecting the return due to paid and accrued interest, and price return, reflecting the gains or losses due to changes in end-of-day price and principal repayments.

For further details regarding Index Calculations, please refer to S&P Dow Jones Indices' Fixed Income Index Mathematics Methodology.

Index Maintenance

Rebalancing

The indices are reviewed and rebalanced according to the schedule in the table below. The Index Committee, nevertheless, reserves the right to make adjustments to an index at any time that it believes appropriate.

Rebalancing Schedule	
Rebalancing Frequency	Monthly
Rebalancing Date	Last day of the rebalancing period (T)
Announcement Date	T minus 3
Reference Date	T minus 4

All days reflect after the close and count business days

Additions, deletions and other changes to the index arising from the rebalancing are made provided the security's reference information and pricing are available by designated pricing and data providers on the rebalancing reference date. Changes to the index are published on the announcement date and become effective on the rebalancing date. Information related to the rebalancing is obtained and disseminated after the close of business.

Ongoing Maintenance

For more information on treatment of defaults or lack of daily price data, please refer to the Defaults section of S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology.

S&P Solvency II Capital Efficiency Corporate Bond Index. Each issuer in the index is reviewed annually for ongoing eligibility. New additions to the S&P Global Developed Infrastructure Bond Select Min Par Index are reviewed at the monthly rebalancing.

Currency of Calculation and Additional Index Return Series

The indices are calculated in their respective local currencies. Certain indices are also available in U.S. dollars or U.S. dollar-hedged versions.

WMR foreign exchange rates are taken daily at 4:00 PM London Time and used in the calculation of the indices. These mid-market fixings are calculated by WMR based on LSEG data and appear on LSEG pages.⁹

Additional currency and currency hedged versions of the indices, as well as maturity, sector and rating-based sub-indices may be available. For a list of available sub-indices and tickers, please refer to S&P Dow Jones Indices' Fixed Income Index Directory available at www.spglobal.com/spdji/.

For more information on currency and currency hedged indices, please refer to S&P Dow Jones Indices' Fixed Income Index Mathematics Methodology.

Base Dates and History Availability

Index history availability, base dates, and base values are shown in the table below.

⁹ For the S&P US Treasury Bond 7-10 Year Index (TTM JPY Hedged) and the S&P US Treasury Bond 7-10 Year Index (TTM JPY), the Tokyo 11:00 AM TTM spot rates of the following business day are used in the calculation.

Index	Launch Date	First Value Date	Base Date	Base Value
S&P Australia Aggregate Bond Index	07/19/2016	12/30/1994	12/30/1994	100
S&P Australia Collateralized Bond Index	07/19/2016	07/19/2016	08/31/2005	100
S&P Australia High Yield Corporate Bond Index	07/19/2016	06/29/2012	06/29/2012	100
S&P Australia Investment Grade Corporate Bond Index	03/07/2016	12/31/1998	12/31/1998	100
S&P Australia Quasi & Foreign Government Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Australia Sovereign Bond Index	07/19/2016	12/30/1994	12/30/1994	100
S&P Austria Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Belgium Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Canada Aggregate Bond Index	12/22/2015	01/30/1998	01/30/1998	100
S&P Canada All Bond Index	11/26/2014	01/30/1998	01/30/1998	100
S&P Canada Collateralized Bond Index	11/26/2014	03/31/2010	03/31/2010	100
S&P Canada High Yield Corporate Bond Index	08/21/2015	01/30/1998	01/30/1998	100
S&P Canada Investment Grade Corporate Bond Index	11/26/2014	01/30/1998	01/30/1998	100
S&P Canada Provincial & Municipal Bond Index	11/26/2014	01/30/1998	01/30/1998	100
S&P Canada Sovereign Bond Index	02/21/2014	01/01/1993	01/01/1993	100
S&P Canada Government Bond Index	01/24/2018	01/30/1998	01/30/1998	100
S&P Czech Republic Sovereign Bond Index	11/20/2020	12/31/2013	12/31/2013	100
S&P Cyprus Sovereign Bond Index	08/21/2015	05/29/2015	05/29/2015	100
S&P Denmark Investment Grade Corporate Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Denmark Quasi & Foreign Government Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Denmark Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Denmark Collateralized Bond Index	02/21/2017	01/30/1998	01/30/1998	100
S&P Denmark Aggregate Bond Index	02/21/2017	12/31/1999	12/31/1999	100
S&P Estonia Sovereign Bond Index	11/20/2020	06/30/2020	06/30/2020	100
S&P Eurozone Developed Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Eurozone Investment Grade Corporate Bond Index	03/07/2016	12/31/1999	12/31/1999	100
S&P Eurozone Quasi & Foreign Government Bond Index	03/07/2016	12/31/1999	12/31/1999	100
S&P Eurozone Sovereign Bond Index	08/21/2015	12/31/1999	12/31/1999	100
S&P Finland Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P France Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Germany Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Greece Sovereign Bond Index	08/21/2015	12/31/1999	12/31/1999	100
S&P Iceland Sovereign Bond Index	11/20/2020	11/30/2017	11/30/2017	100
S&P Ireland Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Israel Sovereign Bond Index	10/08/2014	01/29/1999	01/29/1999	100
S&P Italy Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Japan Investment Grade Corporate Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Japan Quasi & Foreign Government Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Japan Sovereign Bond Index	10/08/2014	01/30/1998	04/30/2014	100
S&P Latvia Sovereign Bond Index	01/22/2016	12/31/2015	12/31/2015	100
S&P Lithuania Sovereign Bond Index	01/22/2016	12/31/2015	12/31/2015	100
S&P Luxembourg Sovereign Bond Index	10/08/2014	12/31/2008	12/31/2008	100
S&P Netherlands Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P New Zealand Aggregate Bond Index	09/09/2016	01/30/1998	01/30/1998	100
S&P New Zealand Collateralized Bond Index	09/09/2016	08/31/2010	08/31/2010	100
S&P New Zealand Investment Grade Corporate Bond Index	04/01/2016	01/30/1998	01/30/1998	100
S&P New Zealand Quasi & Foreign Government Bond Index	04/01/2016	01/30/1998	01/30/1998	100
S&P New Zealand Sovereign Bond Index	10/08/2014	12/31/1992	03/31/2014	99.997
S&P Norway Aggregate Bond Index	09/09/2016	12/29/2000	12/29/2000	100
S&P Norway Collateralized Bond Index	09/09/2016	05/31/2006	05/31/2006	100
S&P Norway Investment Grade Corporate Bond Index	03/07/2016	12/31/1999	12/31/1999	100
S&P Norway Quasi & Foreign Government Bond Index	03/07/2016	12/29/2000	12/29/2000	100
S&P Norway Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P/BVL Peru Sovereign Bond Index	05/24/2017	05/30/2008	05/30/2008	100
S&P Portugal Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Slovakia Sovereign Bond Index	08/21/2015	05/31/2005	05/31/2005	100
S&P Slovenia Sovereign Bond Index	08/21/2015	02/28/2007	02/28/2007	100
S&P Spain Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Sweden Investment Grade Corporate Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Sweden Quasi & Foreign Government Bond Index	03/07/2016	12/31/1998	12/31/1998	100
S&P Sweden Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Switzerland Investment Grade Corporate Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Switzerland Quasi & Foreign Government Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P Switzerland Sovereign Bond Index	10/08/2014	12/31/1999	12/31/1999	100
S&P Taxable Municipal USD250 Million Par Bond Index	04/03/2019	12/31/2010	12/31/2010	100
S&P U.K. Gilt Index	10/08/2014	12/31/1999	12/31/1999	100
S&P U.K. Investment Grade Corporate Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P U.K. Quasi & Foreign Government Bond Index	03/07/2016	01/30/1998	01/30/1998	100
S&P U.S. Agency Index	07/31/2013	12/31/2008	12/31/2008	100
S&P U.S. Aggregate Bond Index	07/15/2014	04/30/2002	04/30/2010	100

Index	Launch Date	First Value Date	Base Date	Base Value
S&P U.S. Government Bond Index	12/22/2017	11/30/2017	11/30/2017	100
S&P U.S. Covered Bond Index	10/04/2013	12/31/2011	12/31/2011	100
S&P U.S. Government & Corporate Bond Index	01/29/2018	12/29/2017	12/29/2017	100
S&P U.S. Government / Credit Bond Index	04/25/2018	12/29/2017	12/29/2017	100
S&P U.S. Dollar Global Investment Grade Corporate Bond Index	07/31/2017	01/29/1993	01/29/1993	100
S&P U.S. Investment Grade Corporate Bond Index	07/31/2017	01/29/1993	01/29/1993	100
S&P U.S. Foreign Issued Investment Grade Corporate Bond Index	07/31/2017	01/29/1993	01/29/1993	100
S&P U.S. Dollar Global Investment Grade Corporate Bond Crossover Rated Index	07/31/2017	01/29/1993	01/29/1993	100
S&P U.S. Dollar Global High Yield Corporate Bond Index	12/15/2016	01/29/1993	01/29/1993	100
S&P U.S. High Yield Corporate Bond Index	12/15/2016	01/29/1993	01/29/1993	100
S&P U.S. High Yield Corporate Distressed Bond Index	03/02/2018	01/31/2000	01/31/2000	100
S&P U.S. Mortgage-Backed Securities Index	07/15/2014	12/31/2008	12/31/2008	100
S&P U.S. Supranational & Foreign Government Bond Index	04/01/2016	01/30/1998	01/30/1998	100
S&P U.S. Treasury Bond Index	03/24/2010	12/29/1989	12/29/1989	100
S&P U.S. Treasury Bond 7-10 Year Index	03/24/2010	12/29/1989	12/29/1989	100
S&P U.S. Treasury Bond 7-10 Year Index (TTM JPY Hedged)	07/07/2016	02/01/2010	02/01/2010	100
S&P U.S. Treasury Bond 7-10 Year Index (TTM JPY)	07/07/2016	02/01/2010	02/01/2010	100
S&P Global Developed Aggregate Ex-Collateralized Bond Index	07/05/2016	03/29/2002	03/29/2002	100
Dow Jones Equal Weight U.S. Issued Corporate Bond Index	11/30/2006	12/31/1996	12/31/1996	100
S&P Global Developed Corporate Bond Index	05/07/2020	12/31/2019	12/31/2019	100
S&P Global Developed Corporate Infrastructure Bond Index	05/07/2020	12/31/2019	12/31/2019	100
S&P Global Developed Corporate Infrastructure Bond Select Min Par Index	05/07/2020	12/31/2019	12/31/2019	100
S&P Solvency II Capital Efficiency Corporate Bond Index	05/07/2020	12/31/2019	12/31/2019	100
S&P U.S. Catholic Values Aggregate Bond Index	07/22/2020	07/31/2015	07/31/2015	100
S&P U.S. Ultra Short Treasury Bill & Bond Index	08/06/2020	10/31/2011	10/31/2011	100

Index Governance

Index Committee

An Index Committee maintains the indices. All committee members are full-time professionals at S&P Dow Jones Indices. Meetings are held regularly. The Index Committee oversees the management of the indices, including determinations of intra-rebalancing changes, maintenance and inclusion policies, and other matters affecting the maintenance and calculation of the indices.

In fulfilling its responsibilities, the Index Committee has full and complete discretion to (i) amend, apply, or exempt the application of index rules and policies as circumstances may require and (ii) add, remove, or by-pass any bond in determining the composition of an index.

The Index Committee may rely on any information or documentation submitted to it or gathered by it that the Index Committee believes to be accurate. The Index Committee reserves the right to reinterpret publicly available information and to make changes to the indices based on a new interpretation of that information at its sole discretion. All Index Committee discussions are confidential.

The Index Committee is separate from and independent of other analytical groups at S&P Global. In particular, the Index Committee has no access to or influence on decisions by S&P Global Ratings analysts.

S&P Dow Jones Indices' Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

For information on Quality Assurance and Internal Reviews of Methodology, please refer to S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology.

Index Policy

Announcements

Global and regional announcements of any relevant information pertaining to the indices are made after the close of business. Press releases are posted on the S&P Dow Jones Indices Web site at www.spglobal.com/spdji/.

Holiday Schedule

Global indices are calculated on all business days of the year (Monday through Friday) except New Year's Day (January 1st).

For regional and sub-index holiday schedules, a complete holiday schedule for the year is available on S&P Dow Jones Indices' Web site at www.spglobal.com/spdji/.

Rebalancing

The Index Committee may change the date of a given rebalancing for reasons including market holidays occurring on or around the scheduled rebalancing date. Any such change will be announced with proper advance notice where possible.

End-of-Day Calculation

Index levels are calculated at the end of each business day, via S&P Dow Jones Indices' Web site. This may be subject to change.

Recalculation Policy

For information on the recalculation policy please refer to S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology.

For information on Calculations and Pricing Disruptions, Expert Judgment and Data Hierarchy, please refer to S&P Dow Jones Indices' Fixed Income Policies & Practices Methodology.

Contact Information

For questions regarding an index, please contact: index_services@spglobal.com.

Index Dissemination

Index levels are available through S&P Dow Jones Indices' Web site at www.spglobal.com/spdji/, major quote vendors (see codes below), numerous investment-oriented Web sites, and various print and electronic media. Daily index levels and index data are available via subscription.

Tickers

The table below lists headline indices covered by this document. All versions of the below indices that may exist are also covered by this document. Please refer to the [S&P DJI Methodology & Regulatory Status Database](#) for a complete list of indices covered by this document.

Total Return Index	Local	USD
S&P Australia Aggregate Bond Index	SPBAUAGT	SPBAUAGU
S&P Australia Collateralized Bond Index	SPAUCOLT	SPAUCLUT
S&P Australia High Yield Corporate Bond Index	SPAUHYTT	SPAUHYU
S&P Australia Investment Grade Corporate Bond Index	SPAUICAT	SPAUICUT
S&P Australia Quasi & Foreign Government Bond Index	SPAUGQAT	SPAUGQUT
S&P Australia Sovereign Bond Index	SPBAUSOT	SPBAUSOU
S&P Austria Sovereign Bond Index	SPBDEATT	SPFIATUT
S&P Belgium Sovereign Bond Index	SPBDEBET	SPFIBEUT
S&P Canada Aggregate Bond Index	SPFCAGG	SPFICGGU
S&P Canada All Bond Index	SPFCALT	SPFCALUT
S&P Canada Collateralized Bond Index	SPFICC	SPFICCU
S&P Canada High Yield Corporate Bond Index	SPFICCHT	SPFICCHUT
S&P Canada Investment Grade Corporate Bond Index	SPFICAG	SPFICAGU
S&P Canada Provincial & Municipal Bond Index	SPFICPM	SPFICPMU
S&P Canada Sovereign Bond Index	SPFICA	SPFICAU
S&P Canada Government Bond Index	SPFCGB	SPFCGU
S&P Cyprus Sovereign Bond Index	SPBDECYT	SPFICYU
S&P Czech Republic Sovereign Bond Index	SPFICZ	SPFICZU
S&P Denmark Investment Grade Corporate Bond Index	SPDKICDT	SPDKICUT
S&P Denmark Quasi & Foreign Government Bond Index	SPDKGQDT	SPDKGQUT
S&P Denmark Sovereign Bond Index	SPFIDKT	SPFIDKUT
S&P Denmark Collateralized Bond Index	SPDKGCDT	SPDKGCU
S&P Denmark Aggregate Bond Index	SPDKAGNT	SPDKAGU
S&P Estonia Sovereign Bond Index	SPBDEEE	SPBDEEU
S&P Eurozone Developed Sovereign Bond Index	SPFIEZT	SPFIEZUT
S&P Eurozone Investment Grade Corporate Bond Index	SPEZICET	SPEZICUT
S&P Eurozone Quasi & Foreign Government Bond Index	SPEZGQET	SPEZGQUT
S&P Eurozone Sovereign Bond Index	SPBDEGIT	SPBDEGUT
S&P Finland Sovereign Bond Index	SPBDEFIT	SPFIFIUT
S&P France Sovereign Bond Index	SPBDEFRT	SPFIFRUT
S&P Germany Sovereign Bond Index	SPBDEDET	SPFIDEUT
S&P Greece Sovereign Bond Index	SPBDEGRT	SPFIFGRUT
S&P Iceland Sovereign Bond Index	SPFIIS	SPFIISU
S&P Ireland Sovereign Bond Index	SPBDEIET	SPFIIIEUT
S&P Israel Sovereign Bond Index	SPFIIL	-
S&P Italy Sovereign Bond Index	SPBDEITT	SPFIITUT
S&P Japan Investment Grade Corporate Bond Index	SPJPICJT	SPJPICUT
S&P Japan Quasi & Foreign Government Bond Index	SPJPGQJT	SPJPGQUT
S&P Japan Sovereign Bond Index	SPBJSOT	-
S&P Latvia Sovereign Bond Index	SPBDELVT	-
S&P Lithuania Sovereign Bond Index	SPBDELTT	-

Total Return Index	Local	USD
S&P Luxembourg Sovereign Bond Index	SPBDELUT	SPFILUUT
S&P Netherlands Sovereign Bond Index	SPBDENLT	SPFINLUT
S&P New Zealand Aggregate Bond Index	SPBNAGT	SPBNAGU
S&P New Zealand Collateralized Bond Index	SPNZGCZT	SPNZGCUT
S&P New Zealand Investment Grade Corporate Bond Index	SPNZICZT	SPNZICUT
S&P New Zealand Quasi & Foreign Government Bond Index	SPNZGQZT	SPNZGQUT
S&P New Zealand Sovereign Bond Index	SPBNZSOT	SPNZSOUT
S&P Norway Aggregate Bond Index	SPNOAGN	SPNOAGU
S&P Norway Collateralized Bond Index	SPNOGCNT	SPNOGCUT
S&P Norway Investment Grade Corporate Bond Index	SPNOICNT	SPNOICUT
S&P Norway Quasi & Foreign Government Bond Index	SPNOGQNT	SPNOGQUT
S&P Norway Sovereign Bond Index	SPFINOT	SPFINOUT
S&P/BVL Peru Sovereign Bond Index	SPFIPER	SPFIPED
S&P Portugal Sovereign Bond Index	SPBDEPTT	SPFIPTUT
S&P Slovakia Sovereign Bond Index	SPBDESKT	SPFISKU
S&P Slovenia Sovereign Bond Index	SPBDESIT	SPFIUIU
S&P Spain Sovereign Bond Index	SPBDEEST	SPFIESUT
S&P Sweden Investment Grade Corporate Bond Index	SPSEICRT	SPSEICUT
S&P Sweden Quasi & Foreign Government Bond Index	SPSEGQRT	SPSEGQUT
S&P Sweden Sovereign Bond Index	SPFISSET	SPFISSEUT
S&P Switzerland Investment Grade Corporate Bond Index	SPCHICCT	SPCHICUT
S&P Switzerland Quasi & Foreign Government Bond Index	SPCHGQCT	SPCHGQUT
S&P Switzerland Sovereign Bond Index	SPFISWT	SPFISWUT
S&P Taxable Municipal USD250 Million Par Bond Index	SPMUTS2T	SPMUTS2T
S&P U.K. Gilt Index	SPFIGBT	SPFIGBUT
S&P U.K. Investment Grade Corporate Bond Index	SPUKICGT	SPUKICUT
S&P U.K. Quasi & Foreign Government Bond Index	SPUKGQGT	SPUKGQUT
S&P U.S. Agency Index	SPFIAGT	SPFIAGT
S&P U.S. Aggregate Bond Index	SPUSAGGT	SPUSAGGT
S&P U.S. Government Bond Index	SPUSGVT	SPUSGVT
S&P U.S. Covered Bond Index	SPBDCVBT	SPBDCVBT
S&P U.S. Government & Corporate Bond Index	SPUSGVCT	SPUSGVCT
S&P U.S. Government / Credit Bond Index	SPUSCGVT	SPUSCGVT
S&P U.S. Dollar Global High Yield Corporate Bond Index	SPUSGHYT	-
S&P U.S. Dollar Global Investment Grade Corporate Bond Index	SPUSGIGT	SPUSGIGT
S&P U.S. Investment Grade Corporate Bond Index	SPUIGBDT	SPUIGBDT
S&P U.S. Foreign Issued Investment Grade Corporate Bond Index	SPUIGFOT	SPUIGFOT
S&P U.S. Dollar Global Investment Grade Corporate Bond Crossover Rated Index	SPUGIXOT	SPUGIXOT
S&P U.S. High Yield Corporate Bond Index	SPUHYBDT	--
S&P U.S. High Yield Corporate Distressed Bond Index	SPUHYDST	--
S&P U.S. Mortgage-Backed Securities Index	SPMBST	--
S&P U.S. Supranational & Foreign Government Bond Index	SPUSSNFT	--
S&P U.S. Treasury Bond Index	SPBDUSBT	--
S&P U.S. Treasury Bond 7-10 Year Index	SPBDU10T	--
S&P U.S. Treasury Bond 7-10 Year Index (TTM JPY Hedged)	SPBDTMHT	--
S&P U.S. Treasury Bond 7-10 Year Index (TTM JPY)	SPBDTMJT	--
S&P Global Developed Aggregate Ex-Collateralized Bond Index (USD)	-	SPDABXC
Dow Jones Equal Weight U.S. Issued Corporate Bond Index	DJCBT	DJCBT
S&P Global Developed Corporate Bond Index	-	SPDCORP
S&P Global Developed Corporate Infrastructure Bond Index	-	SPDCINF
S&P Global Developed Corporate Infrastructure Bond Select Min Par Index	-	SPDCIN5
S&P Solvency II Capital Efficiency Corporate Bond Index	-	SPDCSII
S&P U.S. Catholic Values Aggregate Bond Index	-	SPCVAGG
S&P U.S. Ultra Short Treasury Bill & Bond Index	-	SPUSBUS
S&P/BVL Peru Sovereign LargeCap 13+ Month Bond Index (PEN)	-	SPPEL1
S&P U.S. Treasury Bond Current 30-Year & 10-Year 70/30 Blend Index (USD) (Custom)	-	SPUTBCUT

Index Data

Daily index level data is available via subscription.

For product information, please contact S&P Dow Jones Indices, www.spglobal.com/spdji/en/contact-us.

Web site

For further information, please refer to S&P Dow Jones Indices' Web site at www.spglobal.com/spdji.

Appendix A

S&P U.S. Treasury Bond Current 30-Year & 10-Year 70/30 Blend Index (USD) (Custom)

Index Objective. The index measures the performance of a duration-matching target of the component indices plus a fixed cash component. The duration-matching target weights the component indices as indicated in the table below, then applies an adjustment factor of 0.82. The cash component is a total return target of 5.5% added as a premium.¹⁰

Component Indices

Index Name	Index Code	Weight
S&P U.S. Treasury Bond Current 30-Year Index	SPBDU3B	70%
S&P U.S. Treasury Bond Current 10-Year Index	SPBDU1B	30%
Cash Index with a Fixed 5.5% Premium	--	--

Index Calculation

$$CashAccrual(t) = CashAccrual(t - 1) * \left((1 + Premium)^{\left(\frac{D_t - D_{t-1}}{N} \right)} \right)$$

$$Parent(t) = Parent(rb) * \left(1 + .7 * \left(\frac{SPBDU3B(t)}{SPBDU3B(rb)} - 1 \right) + .3 * \left(\frac{SPBDU1B(t)}{SPBDU1B(rb)} - 1 \right) \right)$$

$$Index(t) = Index(rb) * \left(1 + 0.82 * \left(\frac{Parent(t)}{Parent(rb)} - 1 \right) + \left(\frac{CashAccrual(t)}{CashAccrual(rb)} - 1 \right) \right)$$

where:

N = 365

$Premium$ = +5.5%

D = Date

t = The current day

rb = The last business day of the previous month

For more information on the index calculation, please refer to the Weighted Return section of S&P Dow Jones Indices' Index Mathematics Methodology.

Currency of Calculation. The index calculates in U.S. dollars.

Rebalancing. The index rebalances monthly, effective after the close of the last business day of each month. The weights of Parent and CashAccrual exposure reset based on the above formula.

¹⁰ For history prior to 05/31/2023, the duration-matching target was not included in the calculation of the index.

Appendix B

Methodology Changes

Methodology changes since January 1, 2015, are as follows:

Change	Effective Date (After Close)	Methodology	
		Previous	Updated
Data Source: S&P U.S. Mortgage-Backed Securities Index	02/29/2024	Interactive Data Corporation prices mortgage-backed securities.	J.P. Morgan Securities LLC prices mortgage-backed securities.
Index Name: S&P/BVL Peru Sovereign Bond Index	10/07/2021	The index name was S&P Peru Sovereign Bond Index.	The index name is S&P/BVL Peru Sovereign Bond Index.
Eligible Debt Type: S&P U.S. Dollar Global Investment Grade Corporate Bond Index	05/03/2021	Within the eligible debt type, Depository Receipts are excluded.	Within the eligible debt type, Depository Receipts are included.
Eligible Debt Type: S&P U.S. Dollar Global High Yield Corporate Bond Index	05/03/2021	Within the eligible debt type, Surplus Notes are excluded.	Within the eligible debt type, Surplus Notes are included.
Contingent Convertibles	09/30/2020	--	Contingent Convertible bonds are excluded from the index.
Index Name: S&P U.K. Gilt Index	07/24/2020	The index name was S&P U.K. Gilt Bond Index.	The index name is S&P U.K. Gilt Index.
Foreign Exchange Rate used in the End-of-Day Calculation of the Indices: S&P Japan Sovereign 20+ Year Bond Index (AUD) and S&P Japan Sovereign 20+ Year AUD Hedged Bond Index	06/30/2020	WM/Reuters spot foreign exchange rates are taken daily at 5:00 AM London Time and used in the end-of-day calculation	WM/Reuters spot foreign exchange rates are taken daily at 4:00 PM London Time and used in the end-of-day calculation
Minimum Par Amount Outstanding change: S&P Peru Sovereign Bond Index	12/31/2019	A minimum par amount outstanding of PEN 500 million, on the rebalancing reference date, is required for index eligibility.	A minimum par amount outstanding of PEN 100 million, on the rebalancing reference date, is required for index eligibility.
Taxable Municipal Bond Sub-index Component Change: S&P U.S. Aggregate Bond Index, S&P U.S. Government / Credit Bond Index, and S&P Global Developed Aggregate Ex-Collateralized Bond Index (USD)	09/30/2019	The Taxable Municipal Bond sub-index component was the S&P Taxable Municipal Bond Select Index.	The Taxable Municipal Bond sub-index component is the S&P Taxable Municipal USD250 Million Par Bond Index.
Eligible Bonds: S&P Asia Pacific Bond Indices	08/30/2019	Sinkable bonds were included.	Sinkable bonds are excluded.
Rebalancing Reference Date: U.S. Corporate Bond Indices	03/29/2019	The rebalancing reference date is three days prior to market close of the last business day of the previous month (t-3).	The rebalancing reference date is four days prior to market close of the last business day of the previous month (t-4).
Treatment of Corporate Securities Guaranteed by Government or Government Agency	09/01/2018	Corporate securities are eligible for corporate indices regardless of their guarantor.	Corporate securities guaranteed by government or government agency are only eligible for quasi & foreign government indices.
Exclusion of Government Holdings from Par Amount	06/29/2018	Government holdings are included in determining par amount	Government holdings are excluded in determining par amount

Change	Effective Date (After Close)	Methodology	
		Previous	Updated
Outstanding for Index Eligibility Purposes: S&P Global Developed Sovereign Bond Indices		outstanding for index eligibility purposes.	outstanding for index eligibility purposes, where applicable.
Eligible Bonds: S&P U.S. Aggregate Bond Index and S&P U.S. Supranational & Foreign Government Bond Index	01/31/2018	The index included Supranational and Foreign Government bonds denominated in USD.	The index includes Supranational, Foreign Government, and Foreign Agency bonds denominated in USD.
Component Index Change: S&P U.S. Aggregate Bond Index and S&P Global Developed Aggregate Ex-Collateralized Bond Index (USD)	07/31/2017	The U.S. investment grade component was the S&P U.S. Investment Grade Corporate Bond Index II.	The U.S. investment grade component is the S&P U.S. Dollar Global Investment Grade Corporate Bond Index.
Foreign Exchange Rates: Asia Pacific indices and S&P Global Developed Sovereign Ex-U.S. Bond Index (USD Hedged)	05/31/2017	For end-of-day index calculation, the indices used Reuters spot foreign exchange rates taken at 4:15 PM Sydney time.	For end-of-day index calculation, the indices used WM/Reuters spot foreign exchange rates taken at 4:00 PM London time.
Country Criteria for Index Eligibility: S&P U.S. High Yield Corporate Bond Index	02/28/2017	Country criteria were based on country of domicile.	Country criteria are based on country of risk.
Change of Australian sub-index component: S&P Global Developed Sovereign Bond Index	12/30/2016	The Australian sub-index component was the S&P/ASX Australian Government Bond Index.	The Australian sub-index component is the S&P Australia Sovereign Bond Index.
Index Name Change: S&P/BG Cantor U.S. Treasury Bond Index	07/01/2016	The index name was S&P/BG Cantor U.S. Treasury Bond Index.	The index name is S&P U.S. Treasury Bond Index.
Par Amounts: S&P/BG Cantor U.S. Treasury Bond Index	07/01/2016	Par amounts were adjusted to reflect the amount of "stripped" securities of a given issue during the month.	Par amounts are no longer adjusted to reflect the amount of "stripped" securities of a given issue during the month.
Pricing Source: U.S. Treasury, Agency and Covered Indices	07/01/2016	The pricing source for U.S. Treasury indices was BG Cantor. The pricing source for U.S. Agency and Covered indices was SPSE.	The pricing source for Treasury, Agency and Covered indices is Thomson Reuters.
Rebalancing Reference and Announcement Dates: U.S. Treasury, Agency and Covered Indices	07/01/2016	Rebalancing Reference and Announcement Dates were T-2 and T-1, respectively.	Rebalancing Reference and Announcement Dates are T-4 and T-3, respectively.
Additional Component Index: S&P U.S. Aggregate Bond Index	03/31/2016	The index was comprised of constituents of the following indices: <ul style="list-style-type: none"> • S&P/BG Cantor U.S. Treasury Bond Index • S&P U.S. Agency Index • S&P Taxable Municipal Bond Select Index • S&P U.S. Covered Bond Index • S&P U.S. Investment Grade Corporate Bond Index • S&P U.S. Mortgage-Backed Securities Index 	The index is comprised of constituents of the following indices: <ul style="list-style-type: none"> • S&P/BG Cantor U.S. Treasury Bond Index • S&P U.S. Agency Index • S&P U.S. Supranational & Foreign Government Bond Index • S&P Taxable Municipal Bond Select Index • S&P U.S. Covered Bond Index • S&P U.S. Investment Grade Corporate Bond Index • S&P U.S. Mortgage-Backed Securities Index

Change	Effective Date (After Close)	Previous	Methodology Updated
Change of Australian sub-index component: S&P Global Developed Sovereign Bond Index	09/01/2015	The Australian sub-index component was the S&P/ASX Government Bond Index.	The Australian sub-index component is the S&P/ASX Australian Government Bond Index.

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Where applicable, S&P Dow Jones Indices and its index-related affiliates (“S&P DJI”) defines various dates to assist our clients by providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index’s Launch Date are considered back-tested. S&P DJI defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company’s public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed “Date of introduction”) is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index’s public release date.

Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

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