

FTSE Canada 20+ Bond Index Series

v3.6



**FTSE
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Section 1

Introduction

1. Introduction

1.1 FTSE Canada 20+ Bond Index Series

1.1.1 The following indices are included in this series:

FTSE Canada 20+ Bond Index

FTSE Canada 20+ Universe Bond Index

FTSE Canada 20+ Strip Bond Index

1.2 The Canada 20 plus Bond Index Series does not take account of ESG factors in its index design.

1.3 IOSCO

1.3.1 FTSE International Limited (FTSE) considers that the FTSE Canada 20 plus Bond Index meets the IOSCO Principles for Financial Benchmarks as published in July 2013.

Full details can be accessed at www.iosco.org.

Details of FTSE Russell's Statement of Compliance with respect to the IOSCO Principles can be accessed using the following link:

[IOSCO Principles](#).

1.4 FTSE hereby notifies users of the index series that it is possible that circumstances, including external events beyond the control of FTSE, may necessitate changes to, or the cessation of, the index series and therefore, any financial contracts or other financial instruments that reference the index series or investment funds which use the index series to measure their performance should be able to withstand, or otherwise address the possibility of changes to, or cessation of, the index series.

1.5 Index users who choose to follow this index or to buy products that claim to follow this index should assess the merits of the index's rules-based methodology and take independent investment advice before investing their own or client funds. No liability whether as a result of negligence or otherwise is accepted by FTSE nor its subsidiary undertakings (or any person concerned with the preparation or publication of these Ground Rules) for any losses, damages, claims and expenses suffered by any person as a result of:

- any reliance on these Ground Rules, and/or
- any inaccuracies in these Ground Rules, and/or
- any non-application or misapplication of the policies or procedures described in these Ground Rules, and/or
- any inaccuracies in the compilation of the Index or any constituent data

1.6 These Ground Rules

This document sets out the Ground Rules for the construction and management of the FTSE Canada 20+ Bond Index Series.

1.7 FTSE Russell

1.7.1 FTSE Russell is a trading name of FTSE International Limited, Frank Russell Company, FTSE Global Debt Capital Markets Limited (and its subsidiaries FTSE Global Debt Capital Markets Inc. and FTSE Fixed Income Europe Limited), FTSE Fixed Income LLC, FTSE (Beijing) Consulting Limited, Refinitiv Benchmark Services (UK) Limited, Refinitiv Limited and Beyond Ratings.

1.8 Index Series objectives

This FTSE Canada 20+ Bond Index series is designed to be a broad measure of the long term Canadian investment-grade fixed income market where the effective term for all issues is equal to or exceeds 20 Years.

The FTSE Canada 20+ Bond Index is comprised of a 50:50 split between the FTSE Canada 20+ Strip Bond Index and the FTSE Canada 20+ Universe Bond Index.

1.9 Major sub-indices

1.9.1 The FTSE Canada 20+ Bond Index Series may be split into sub-indices based on the issuer classification of each bond.

The 20+ Strip Bond Index is divided into Federal and Provincial sectors.

The 20+ Universe Bond Index is divided into Government and Corporate sectors, with sub-sectors based on major industry groups with sufficient coverage. The full classification schema is detailed in Appendix A.

1.9.2 The FTSE Canada 20+ Bond Index Series is not classified into the broad credit rating categories of AAA/AA, A, and BBB, due to the lack of coverage of individual stripped issues from multiple rating agencies.

1.10 Capital Index (also known as the Price Index or the Clean Price Index)

1.10.1 The capital index tracks the notional weighted average change in the prices of the index constituents and is calculated every business day.

1.11 Total Return Index (also known as the Performance Index)

1.11.1 A total return index is calculated for all the indices. A total return index takes into account the price changes and interest accrual and payments of each index constituent.

1.11.2 In addition to the Capital Index and Total Return Index, the following index analytics are also calculated:

- Average Coupon
- Average Yield to Maturity
- Average Time to Maturity
- Value of 01
- Average Macaulay Duration
- Average Modified Duration
- Average Convexity
- The sum of the nominal value of all bonds in each index
- The number of bonds in each Index, and
- The weight of the index in relation to its relevant aggregated index (when applicable)

1.12 The base currency of the benchmark is Canadian Dollars (CAD).

Section 2

Management responsibilities

2. Management responsibilities

2.1 FTSE International Limited (FTSE)

2.1.1 FTSE is the benchmark administrator of the index series.¹

2.1.2 FTSE is responsible for the daily calculation, production and operation of the FTSE Canada Universe Bond Index Series and will:

- maintain records of all the constituents;
- be responsible for the addition and deletion of bonds and changes of nominal amounts, in accordance with the Ground Rules.

2.1.3 These Ground Rules set out the methodology and provide information about the publication of the FTSE Canada 20 plus Bond Index Series.

2.2 FTSE Canada Fixed Income Advisory Committee

2.2.1 The FTSE Canada Fixed Income Advisory Committee is established by FTSE Russell.

2.2.2 The purpose of the Committee is to provide a forum for FTSE Russell to interact with index users and other stakeholders with a view to enhancing the underlying methodologies of FTSE Russell indices.

2.2.3 The Terms of Reference of the FTSE Canada Fixed Income Advisory Committee are set out on the FTSE Russell website and can be accessed using the following link:

[FTSE Canada Fixed Income Advisory Committee.pdf](#)

2.3 Amendments to these Ground Rules

2.3.1 These Ground Rules shall be subject to regular review (at least once a year) by FTSE Russell to ensure that they continue to best reflect the aims of the index series. Any proposals for significant amendments to these Ground Rules will be subject to consultation with FTSE Russell advisory committees and other stakeholders if appropriate. The feedback from these consultations will be considered by the FTSE Russell Index Governance Board before approval is granted.

2.3.2 As provided for in the Statement of Principles for FTSE Fixed Income Indices, where FTSE Russell determines that the Ground Rules are silent or do not specifically and unambiguously apply to the subject matter of any decision, any decision shall be based as far as practical on the Statement of Principles. After making any such determination, FTSE Russell shall advise the market of its decision at the earliest opportunity. Any such treatment will not be considered as an exception or change to the Ground Rules, or to set a precedent for future action, but FTSE Russell will consider whether the Rules should subsequently be updated to provide greater clarity.

¹ The term administrator is used in this document in the same sense as it is defined in Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds (the European Benchmark Regulation) and The Benchmarks (Amendment and Transitional Provision) (EU Exit) Regulations 2019 (the UK Benchmark Regulation).

Section 3

FTSE Russell Index policies

3. FTSE Russell Index policies

These Ground Rules should be read in conjunction with the following policy documents which can be accessed using the links below:

3.1 Queries and Complaints

FTSE Russell's complaints procedure can be accessed using the following link:

[Benchmark Determination Complaints Handling Policy.pdf](#)

3.2 Statement of Principles for FTSE Fixed Income Indices (the Statement of Principles)

Indices need to keep abreast of changing markets and the Ground Rules cannot anticipate every eventuality. Where the Ground Rules do not fully cover a specific event or development, FTSE Russell will determine the appropriate treatment by reference to the Statement of Principles for FTSE Fixed Income Indices which summarises the ethos underlying FTSE Russell's approach to index construction. The Statement of Principles is reviewed annually and any changes proposed by FTSE Russell are presented to the FTSE Russell Policy Advisory Board for discussion before approval by the FTSE Russell Index Governance Board.

The Statement of Principles for Fixed Income Indices can be accessed using the following link:

[Statement of Principles Fixed Income Indices.pdf](#)

3.3 Recalculation Policy and Guidelines

The Recalculation Policy and Guidelines for Fixed Income Indices document is available from the FTSE Russell website using the link below or by contacting fi.index@lseq.com.

[Fixed Income Recalculation Policy and Guidelines.pdf](#)

3.4 Index Policy in the Event Clients are Unable to Trade a Market or a Security

Details of FTSE Russell's treatment can be accessed using the following link:

[Index Policy in the Event Clients are Unable to Trade a Market or a Security.pdf](#)

3.5 Policy for Benchmark Methodology Changes

3.5.1 Details of FTSE Russell's policy for making benchmark methodology changes can be accessed using the following link:

[Policy for Benchmark Methodology Changes.pdf](#)

3.6 FTSE Russell Governance Framework

3.6.1 To oversee its indices, FTSE Russell employs a governance framework that encompasses product, service and technology governance. The framework incorporates the London Stock Exchange Group's three lines of defence risk management framework and is designed to meet the requirements of the IOSCO Principles for Financial Benchmarks², the European benchmark regulation³ and the UK benchmark regulation⁴. The FTSE Russell Governance Framework can be accessed using the following link:

[FTSE Russell Governance Framework.pdf](#)

² IOSCO Principles for Financial Benchmarks Final Report, FR07/13 July 2013.

³ Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds.

⁴ The Benchmarks (Amendment and Transitional Provision) (EU Exit) Regulations 2019.

Section 4

Eligibility criteria

4. Eligibility criteria

4.1 Eligible bonds

Minimum issue size: \$50 Million for Federal and/or Provincial and/or Municipal Government Bonds (Strip Bonds)

Effective 1 March 2019, newly issued securities that contain a step-up schedule with predetermined fixed-rates will be eligible for the FTSE Canada 20+ Universe Bond Index.

\$100 Million for Federal and/or Provincial and/or Municipal Government Bonds (non-Strip Bonds)

\$100 Million for Corporate Bonds (non-Strip Bonds)

Minimum number of buyers: 10 institutional buyers for all non Strip Issues

Minimum Credit Rating: BBB for all non Strip Issues (Only Federal Strip and Provincial Strip and Municipal Strip Issues are eligible, regardless of Credit Rating)

Minimum Term: Greater than 20 Years

Currency: Canadian dollars

Country of issuance: Canada

Country of issuing entity: Canada

4.1.1 In order to be eligible for the indices bonds must have a price assigned from a price source as specified in Section 5 of these Ground Rules.

4.1.2 Regulatory capital that counts towards Additional Tier 1 (AT1) debt for deposit taking institutions, Tier 1 capital for life insurers, and Category B capital for property and casualty, and mortgage insurers is excluded.

4.2 Weighting

4.2.1 The securities in the FTSE Canada 20+ Universe Bond Index and the FTSE Canada 20+ Strip Bond Index are weighted by relative market capitalization. Thus, the return on any issue in the index influences the return on the index in proportion to the individual issue's market value. Market value of any issue equals the adjusted amount outstanding, multiplied by the gross price (market price plus accrued interest), with the gross price expressed as a percentage.

Regarding Strip issues; the total amount outstanding of each issue is adjusted according to the monthly disclosure of Strip Amounts outstanding by CDS (Canadian Depository for Securities)

The FTSE Canada 20+ Bond Index is weighted 50:50 between the two indices described above. Individual bond weights are adjusted accordingly.

4.3 Effective term

For a bond with an embedded option feature, including puttable, callable, extendible, and retractable securities, the effective term is either the option exercise date, or the bond's final maturity date, depending on where the bond is trading in the market. In the case of a fixed-floater, the effective term is the date of the final fixed coupon payment.

Section 5

Price sources

5. Price sources

5.1.1 Constituents prices are provided by CanDeal Data and Analytics (“CanDeal DNA”) in accordance with its Composite pricing methodology.⁵

5.1.2 Prices in the FTSE Canada Bond Index Series represent a mid-side price as of 4:00pm (Toronto time), unless otherwise stated in published index methodologies.

5.2 Verification and price challenges

5.2.1 Statistical techniques are used to identify pricing anomalies based on day-over-day changes and comparisons across peer groups by maturity, asset type, etc.

5.2.2 Any price challenges from index users and possible outliers from the verification process are reviewed with our third-party pricing provider.

5.2.3 In the event that an issue is not able to be resolved in a timely manner, FTSE Russell may exercise expert judgement and roll prices from the previous day. Any exercise of expert judgement is recorded.

⁵ The change from the use of the FTSE Canada Multi Dealer Pricing Methodology to use the CanDeal DNA composite pricing methodology was announced on 22 January 2022 and effective from 17 May 2022.

Section 6

Periodic change to the portfolios

6. Periodic change to the portfolios

6.1 Rebalancing the Indices

- 6.1.1 The FTSE Canada 20+ Bond Index Series is rebalanced on a daily basis for entry of new coupon issues and exit of bonds which no longer meet the eligibility criteria. The strip component of the index series is rebalanced on the first day of each month for entry and weighting of Strip issues based on data provided by Canadian Depository for Securities (CDS).

6.2 Addition of constituents

- 6.2.1 A new issue enters the index on/after the day it is issued or auctioned (when all eligibility criteria are verified). The bond is included in the calculation of index risk statistics such as duration on the day of issue, though it does not affect the return on the index until the following business day. The new security does not begin to accrue interest until the new issue settlement date. The cut-off time for inclusion on the day of issue is 3:00pm EST.

6.3 Removal of constituents

- 6.3.1 A bond is removed from the index series on the day its remaining effective term to maturity declines below 20 years.
- 6.3.2 A non-Strip security that is downgraded below BBB is removed from the index 30 days after the date of the downgrade.

Appendix A

Index calculations

The following notation is used in the following calculations:

$P_{i,t}$	clean price of a constituent bond i on valuation day t
$A_{i,t}$	accrued interest of a constituent bond i as of valuation day t
$N_{i,t}$	nominal value of a constituent bond i on valuation day t
$Coupon_i$	coupon rate of a constituent bond i
$y_{i,t}$	yield to maturity of a constituent bond i as of valuation day t
$MacDur_{i,t}$	Macaulay duration of a constituent bond i as of valuation day t
$ModDur_{i,t}$	Modified duration of a constituent bond i as of valuation day t
$Dval01_{i,t}$	Dollar duration of a constituent bond i as of valuation day t
$Convexity_{i,t}$	Convexity of a constituent bond i as of valuation day t
$C_{i,t}$	value of any coupon payment received from the bond i for the assumed settlement date at time t . If none the value = 0

Clean Price Index (Capital Index)

The clean price (PI) or capital index is given by

$$PI_{i,0} = 100$$

$$PI_{i,t} = PI_{i,t-1} \times \frac{\sum_i P_{i,t} \times N_{i,t-1}}{\sum_i P_{i,t-1} \times N_{i,t-1}}$$

Total Return Index

The total return index (TRI) is given by

$$TRI_{i,0} = 100$$

$$TRI_{i,t} = TRI_{i,t-1} \times \frac{\sum_i (P_{i,t} + A_{i,t} + C_{i,t}) \times N_{i,t-1}}{\sum_i (P_{i,t-1} + A_{i,t-1}) \times N_{i,t-1}}$$

Average Coupon

The index level average coupon (C) is given by

$$C_t = \frac{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t} \times Coupon_i}{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t}}$$

Average Yield to Maturity

The index level average yield to maturity (Y) is given by

$$Y_t = \frac{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t} \times y_{i,t}}{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t}}$$

Average Macaulay Duration

The index level average Macaulay duration (D) is given by

$$D_t = \frac{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t} \times MacDur_{i,t}}{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t}}$$

Average Modified Duration

The index level average Modified duration (MD) is given by

$$MD_t = \frac{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t} \times ModDur_{i,t}}{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t}}$$

Average Value of 01

The index level average value of Dval01 ($DV01$) is given by

$$DV01_t = \frac{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t} \times Dval01_{i,t}}{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t}}$$

Average Convexity

The index level average convexity ($Conv$) is given by

$$Conv_x_t = \frac{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t} \times Convexity_{i,t}}{\sum_i (P_{i,t} + A_{i,t}) \times N_{i,t}}$$

Appendix B

Further information

A Glossary of Terms used in FTSE Russell's Ground Rule documents can be found using the following link:

[Fixed Income Glossary of Terms.pdf](#)

For further information on the FTSE Canada 20+ Bond Index Series Ground Rules please visit www.lseg.com/en/ftse-russell/ or e-mail fi.index@lseg.com. Contact details can also be found on this website.

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