

**S&P Dow Jones
Indices**

A Division of **S&P Global**

S&P/TSX Preferred Share Index *Methodology*

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Introduction

Index Objective and Highlights

The S&P/TSX Preferred Share Index® measures the performance of the Canadian preferred stock market.

The index is comprised of preferred shares trading on the Toronto Stock Exchange that meet criteria relating to minimum size, liquidity, issuer rating, and exchange listing. Constituents are weighted based on a market capitalization weighting scheme.

Partnership

The S&P/TSX indices are calculated and managed by S&P Dow Jones Indices. The TMX Group Inc. (TMX) is the owner and distributor of all S&P/TSX equity index data.

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' Equity Indices Policies & Practices Methodology	Equity Indices Policies & Practices
S&P Dow Jones Indices' Index Mathematics Methodology	Index Mathematics Methodology
S&P Dow Jones Indices' Float Adjustment Methodology	Float Adjustment 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 index continues to achieve its objective.

TSX is a trademark of TSX, Inc. and has been licensed for use by S&P Dow Jones Indices.

Eligibility Criteria

Index Eligibility

The index is comprised of preferred shares listed on and trading on the Toronto Stock Exchange that meet criteria relating to size, liquidity, and issuer rating.

Eligibility Factors

Exchange Listing. Preferred shares listed on the Toronto Stock Exchange and trading in Canadian dollars are eligible.

Type of Issuance. Preferred shares issued by a company to meet its capital or financing requirements are eligible. These include floating and fixed rate preferreds, cumulative and non-cumulative preferreds, preferred shares with a callable or conversion feature, and trust preferreds. Split preferreds, which are packaged securities linked to baskets of shares, are not included.

Maturity or Conversion Schedule. Preferred shares that do not have a mandatory conversion or scheduled maturity within the next 12 months are eligible.

Market Capitalization. The preferred shares must have total market capitalization of more than C\$ 100 million as of the rebalancing reference date, based on the volume weighted average price (VWAP) on the Toronto Stock Exchange over the last 10 trading days as of the reference date. However, any current constituent that maintains a total market capitalization of at least C\$ 75 million may remain in the index.

Volume. The preferred shares must have a minimum trailing three-month average daily value traded of C\$ 200,000 as of the rebalancing reference date. For current constituents to remain in the index, the minimum trailing three-month average daily value traded is C\$ 100,000. No issue is removed from the index solely for violating the liquidity requirement for 12 months following its addition effective date.

Rating. Preferred shares must have a minimum rating of P-3 or its equivalent by S&P Global Ratings, Dominion Bank Ratings Service or Moody's Investor Service.¹ If more than one of the ratings agencies has issued a rating on the stock, the lowest rating is used to determine eligibility. Current constituents without ratings are evaluated quarterly for continued inclusion in the index.

Indicated Yield. Preferred shares for which S&P Dow Jones Indices cannot determine an indicated annual dividend yield as of the rebalancing reference date are not eligible.

For more information on the indicated annual dividend yield, please refer to the S&P Dow Jones Indices' Index Mathematics Methodology.

Different Lines of the Same Issuer. There is no limit to the number of lines of a single company's preferred share allowed in the index; however, a maximum weight of 10% is set per issuer. All eligible lines for an issuer are included in the index and capped on a pro rata basis to a maximum of 10% by issuer of the index market capitalization.

A preferred share deleted from the index is not eligible for index re-inclusion until six months after the effective date of the exclusion.

¹ The index was launched in April 2007. Prior to that time, the index was back tested using only S&P Global Ratings' ratings.

Note: While the inclusion criteria explicitly exclude issues that have a mandatory conversion or scheduled maturity within 12 months of the rebalancing effective date, no such rule exists for continued membership.

Data Sources

Stock prices, VWAPs, and prices used to calculate QMV are prices determined by trading on the TSX.

Canadian trading volume is determined using the composite volume. Canadian trading volume includes trading on the TSX, Aequitas (Lit and Neo), Alpha, CSE (Pure Trading), Instinet Canada, Liquidnet Canada, Lynx, Nasdaq CXC, Nasdaq CXD, Nasdaq CX2, Omega, and TriAct Match Now.

Index Construction

Approaches

The index is based on a market capitalization weighting scheme.

Index Calculations

The index is calculated by the divisor methodology used in S&P Dow Jones Indices' equity indices.

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

Index Maintenance

Rebalancing

Index membership is reviewed quarterly. Rebalancing occurs after the close on the third Friday of January, April, July, and October. The reference date for additions to and deletions from the index is five business days prior to the first Friday of the rebalancing month.

Additions. Additions occur only at the quarterly rebalancing dates. There are no intra-period additions.

Deletions. A constituent is deleted intra-period if it is called or undergoes mandatory conversion or redemption. Index constituents are also deleted if the constituents no longer meet eligibility requirements at the quarterly rebalancing. The Index Committee exercises discretion in cases where the credit worthiness of an issue is significantly downgraded or downgraded to junk status.

Corporate Actions

Corporate Action	Adjustment Made to Index	Divisor Adjustment?
Shares called for cash or par value	If the issuer calls a constituent, it is removed from index after the close of the call date, or the first trading date of the call period, at the closing price. Note that the issuer may choose not to call, in which case no change is necessary.	Yes
Shares called for conversion or automatically converted	The constituent is removed from the index after the close of the conversion date, or the first trading date of the conversion period, at the closing price. If the issuer chooses not to invoke the right to convert and conversion is not automatic, no change is necessary.	Yes
Delisting from the Toronto Stock Exchange	The constituent is removed at the closing price of the delisting date (if required, a constituent may be removed at zero price).	Yes
Special cash distribution	The price of the stock making the special payment is reduced by the per share special payment amount after the close of trading on the day before the ex-date.	Yes
Rights offering on the preferred share class (rare occurrence)	The price is adjusted to the Price of Parent shares minus the Price of Rights shares/Rights Ratio.	Yes
Preferred stock split (rare occurrence)	Index Shares are multiplied by, and the price is divided by, the split factor.	No
Partial call for cash or par value	On the redemption date, the constituent shares outstanding are reduced by the number of shares called and the constituent price is adjusted to the call price plus accrued interest.	Yes
Issuance of additional shares for the preferred share class in the index	None. Shares are revised at the rebalancing.	No

For more information, please refer to the Market Capitalization Indices section of S&P Dow Jones Indices' Equity Indices Policies & Practices Index Methodology.

Currency of Calculation and Additional Index Return Series

The S&P/TSX Preferred Share Index is calculated in Canadian dollars.

In addition to the indices detailed in this methodology, additional return series versions of the indices may be available, including, but not limited to the following: currency, currency hedged, decrement, fair value, inverse, leveraged, and risk control versions. For a list of available indices, please refer to the [S&P DJI Methodology & Regulatory Status Database](#).

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

For the inputs necessary to calculate certain types of indices, including decrement, dynamic hedged, fair value, and risk control indices, please refer to the Parameters documents available at www.spglobal.com/spdji.

Base Dates and History Availability

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

Index	Launch Date	First Value Date	Base Date	Base Value
S&P/TSX Preferred Share Index (Price Return)	06/12/2007	07/19/2002	07/19/2002	975.14
S&P/TSX Preferred Share Index (Total Return)	06/12/2007	07/19/2002	07/19/2002	975.01

Index Data

Calculation Return Types

S&P Dow Jones Indices calculates multiple return types which vary based on the treatment of regular cash dividends. The classification of regular cash dividends is determined by S&P Dow Jones Indices.

- Price Return (PR) versions are calculated without adjustments for regular cash dividends.
- Gross Total Return (TR) versions reinvest regular cash dividends at the close on the ex-date without consideration for withholding taxes.
- Net Total Return (NTR) versions, if available, reinvest regular cash dividends at the close on the ex-date after the deduction of applicable withholding taxes.

In the event there are no regular cash dividends on the ex-date, the daily performance of all three indices will be identical.

For a complete list of indices available, please refer to the daily index levels file (“SDL”).

For more information on the classification of regular versus special cash dividends as well as the tax rates used in the calculation of net return, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

For more information on the calculation of return types, please refer to S&P Dow Jones Indices' Index Mathematics Methodology.

Index Governance

Index Committee

The S&P/TSX Canadian indices are maintained by the S&P/TSX Canadian Index Committee. The Index Committee is comprised of four members representing S&P Dow Jones Indices and three members representing the TMX. The Index Committee is chaired by a member designated by S&P Dow Jones Indices. Meetings are held monthly, and from time to time, as needed.

S&P Dow Jones Indices considers information about changes to its indices and related matters to be potentially market moving and material. Therefore, all Index Committee discussions are confidential.

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' Equity Indices Policies & Practices Methodology.

Index Policy

Announcements

Announcements of additions and deletions for the S&P/TSX Canadian indices are generally made after market close. Whenever possible, announcements of additions or deletions of shares or other index adjustments are made five trading days before the adjustments are implemented.

Index rebalancing announcements are made to clients after the close of trading on the first Friday of the rebalancing month, approximately 10 business days before the effective date.

In addition, TMX Datalinx offers a fee-based subscription to Index Notices. The Index Notices provide the most detailed and comprehensive coverage of index changes. Complete data for index replication (including share counts, tickers and data on index levels and returns) are also available through TMX Datalinx. In order to subscribe, contact TMX Datalinx by phone at +1.416.947.4778 or by email at marketdata@tmx.com.

Holiday Schedule

The S&P/TSX Canadian indices are calculated when the Canadian equity market is open.

A complete holiday schedule for the year is available on the TMX Web site at www.tmx.com.

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.

Unexpected Exchange Closures

For information on Unexpected Exchange Closures, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

Recalculation Policy

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

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

Contact Information

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

Index Dissemination

The TMX Group (TMX) serves as the distributor of both real-time and historical index data. In addition, index levels are available on S&P Dow Jones Indices' Web site at www.spglobal.com/spdji, through major quote vendors (see codes below), through numerous investment oriented Web sites and various print and electronic media.

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.

Index	Return Type	BBG	RIC
S&P/TSX Preferred Share Index	Price Return	TXPR	.GSPTXPR
	Total Return	TXPRAR	.TRGSPTXPR

Index Data

Daily constituent and index level data is available from the Toronto Stock Exchange on subscription. Please contact Market Data at 416-947-4778 or, by email, at marketdata@tmx.com.

For further information, please refer to the TMX Web site at www.tmx.com.

Web site

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

Appendix

Methodology Changes

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

Change	Effective Date (After Close)	Previous	Methodology Updated
Trading Volume for Liquidity Calculation	31-Jul-18	Canadian trading volume includes trading volume at the TSX, Aequitas (Lit and Neo), Alpha, CSE (Pure Trading), Lynx, Nasdaq CXC, Nasdaq CX2 and Omega.	Canadian trading volume is determined using the composite volume. Canadian trading volume includes trading on the TSX, Aequitas (Lit and Neo), Alpha, CSE (Pure Trading), Instinet Canada, Liquidnet Canada, Lynx, Nasdaq CXC, Nasdaq CXD, Nasdaq CX2, Omega and TriAct Match Now.
Volume Weighted Average Price (VWAP) Period	30-Oct-17	Market capitalization is calculated based on the VWAP of the security on the Toronto Stock Exchange over the last three trading days of the month-end prior to the Quarterly Review.	Market capitalization is calculated based on the VWAP of the security on the Toronto Stock Exchange over the last 10 trading days of the month-end prior to the Quarterly Review.
Trading Volume Marketplaces	20-Aug-15	TSX and other Canadian trading venues which make the data available in a timely fashion.	TSX, Aequitas (Lit and Neo), Alpha, Chi-X, CSE (Pure Trading), CX2, Lynx, TMX Select (Excluded after September 2016 review) and Omega.

Disclaimer

Performance Disclosure/Back-Tested Data

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.

Information presented prior to an index’s launch date is hypothetical back-tested performance, not actual performance, and is based on the index methodology in effect on the launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Also, the treatment of corporate actions in back-tested performance may differ from treatment for live indices due to limitations in replicating index management decisions. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or guarantee of future results.

Typically, when S&P DJI creates back-tested index data, S&P DJI uses actual historical constituent-level data (e.g., historical price, market capitalization, and corporate action data) in its calculations. As ESG investing is still in early stages of development, certain datapoints used to calculate certain ESG indices may not be available for the entire desired period of back-tested history. The same data availability issue could be true for other indices as well. In cases when actual data is not available for all relevant historical periods, S&P DJI may employ a process of using “Backward Data Assumption” (or pulling back) of ESG data for the calculation of back-tested historical performance. “Backward Data Assumption” is a process that applies the earliest actual live data point available for an index constituent company to all prior historical instances in the index performance. For example, Backward Data Assumption inherently assumes that companies currently not involved in a specific business activity (also known as “product involvement”) were never involved historically and similarly also assumes that companies currently involved in a specific business activity were involved historically too. The Backward Data Assumption allows the hypothetical back-test to be extended over more historical years than would be feasible using only actual data. For more information on “Backward Data Assumption” please refer to the FAQ. The methodology and factsheets of any index that employs backward assumption in the back-tested history

will explicitly state so. The methodology will include an Appendix with a table setting forth the specific data points and relevant time period for which backward projected data was used. Index returns shown do not represent the results of actual trading of investable assets/securities. S&P DJI maintains the index and calculates the index levels and performance shown or discussed but does not manage any assets.

Index returns do not reflect payment of any sales charges or fees an investor may pay to purchase the securities underlying the Index or investment funds that are intended to track the performance of the Index. The imposition of these fees and charges would cause actual and back-tested performance of the securities/fund to be lower than the Index performance shown. As a simple example, if an index returned 10% on a US \$100,000 investment for a 12-month period (or US \$10,000) and an actual asset-based fee of 1.5% was imposed at the end of the period on the investment plus accrued interest (or US \$1,650), the net return would be 8.35% (or US \$8,350) for the year. Over a three-year period, an annual 1.5% fee taken at year end with an assumed 10% return per year would result in a cumulative gross return of 33.10%, a total fee of US \$5,375, and a cumulative net return of 27.2% (or US \$27,200).

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ESG Indices Disclaimer

S&P DJI provides indices that seek to select, exclude, and/or weight index constituents based on, but not limited to, certain environmental, social or governance (ESG) indicators, or a combination of those indicators, including the following: environmental indicators (including the efficient use of natural resources, the production of waste, greenhouse gas emissions, or impact on biodiversity); social indicators (such as, inequality and investment in human capital); governance indicators (such as sound management structures, employee relations, remuneration of staff, tax compliance, respect for human rights, anti-corruption and anti-bribery matters), specific sustainability or values-related company involvement indicators (for example, production/distribution of controversial weapons, tobacco products, or thermal coal), or controversies monitoring (including research of media outlets to identify companies involved in ESG-related incidents).

S&P DJI ESG indices use ESG metrics and scores in the selection and/or weighting of index constituents. ESG scores or ratings seek to measure or evaluate a company's, or an asset's, performance with respect to environmental, social and corporate governance issues.

The ESG scores, ratings, and other data used in S&P DJI ESG indices is supplied directly or indirectly by third parties (note these parties can be independent affiliates of S&P Global or unaffiliated entities) so an S&P DJI ESG index's ability to reflect ESG factors depends on these third parties' data accuracy and availability.

ESG scores, ratings, and other data may be reported (meaning that the data is provided as disclosed by companies, or an asset, or as made publicly available), modelled (meaning that the data is derived using a proprietary modelling process with only proxies used in the creation of the data), or reported and modelled (meaning that the data is either a mix of reported and modelled data or is derived from the vendor using reported data /information in a proprietary scoring or determination process).

ESG scores, ratings, and other data, whether from an external and/or internal source, is based on a qualitative and judgmental assessment, especially in the absence of well-defined market standards, and due to the existence of multiple approaches and methodologies to assess ESG factors and considerations. An element of subjectivity and discretion is therefore inherent in any ESG score, rating, or other data and different ESG scoring, rating, and/or data sources may use different ESG assessment or estimation methodologies. Different persons (including ESG data ratings, or scoring providers, index administrators or users) may arrive at different conclusions regarding the sustainability or impact of a particular company, asset, or index.

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