

**Related Issuer List as of July 28, 2022**  
**Additions are Highlighted**

Description	Date Added
<b><u>RBC Common Shares</u></b>	
Royal Bank of Canada	
<b><u>RBC Preferred Shares</u></b>	
Non-Cumulative 5-Year Rate Reset Preferred Shares Series AZ	February 6, 2014
Non-Cumulative 5-Year Rate Reset Preferred Shares Series BB	June 4, 2014
Non-Cumulative 5-Year Rate Reset Preferred Shares Series BD NVCC	February 11, 2015
Non-Cumulative 5-Year Rate Reset Preferred Shares Series BF NVCC	March 30, 2015
Non-Cumulative Preferred Shares Series BH NVCC	June 5, 2015
Non-Cumulative 5-Year Rate Reset Preferred Shares Series BI NVCC	July 30, 2015
Non-Cumulative 5-Year Rate Reset Preferred Shares Series BO NVCC	November 2, 2018
Non-Cumulative 5-Year Fixed Rate Reset First Preferred Shares Series BQ NVCC	September 2, 2020
Non-Cumulative 5-Year Fixed Rate Reset First Preferred Shares Series BR NVCC	October 30, 2020
Non-Cumulative 5-Year Fixed Rate Reset First Preferred shares Series BS NVCC	June 9, 2021
Non-Cumulative 5 Year Fixed Rate Reset First Preferred Shares Series BT NVCC	May 12, 2022
<b><u>RBC Covered Bonds</u></b>	
Royal Bank of Canada \$1.25 billion Floating Rate Covered Bonds due June 27, 2022	June 27, 2019
Royal Bank of Canada \$5.0 billion Floating Rate Covered Bonds due March 27, 2023	September 2, 2020
Royal Bank of Canada \$5.0 billion Floating Rate Covered Bonds due September 27, 2023	September 2, 2020
<b><u>RBC Limited Recourse Capital Notes</u></b>	
Royal Bank of Canada Cdn NVCC Limited Recourse Capital Notes, Series 1 due November 24, 2080	September 2, 2020
Royal Bank of Canada Cdn NVCC Limited Recourse Capital Notes, Series 2 due February 24, 2081	October 30, 2020
Royal Bank of Canada Cdn NVCC Limited Recourse Capital Notes, Series 3 due November 24, 2081	June 9, 2021
<b><u>RBC Subdebt</u></b>	
Royal Bank of Canada 1.67% Cdn NVCC Subordinated Notes due January 28, 2033	January 28, 2021
Royal Bank of Canada 2.74% Cdn NVCC Subordinated Notes due July 25, 2029	January 3, 2020
Royal Bank of Canada 2.88% Cdn NVCC Subordinated Notes due December 23, 2029	January 3, 2020
Royal Bank of Canada 2.088% Cdn NVCC Subordinated Notes due June 30, 2030	September 2, 2020

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Royal Bank of Canada 4.650% US NVCC Subordinated Notes due January 27, 2026	January 13, 2016
Royal Bank of Canada 2.14% Cdn NVCC Subordinated Notes due November 3, 2031	October 14, 2021
Royal Bank of Canada 2.94% Cdn NVCC Subordinated Notes due May 3, 2032	January 25, 2022
<b><u>External Securities</u></b>	
Accelerate OneChoice Alternative Portfolio ETF	February 4, 2021
Arrow EC Income Advantage Alternative Fund ETF	January 24, 2022
Black Diamond Global Equity Fund	December 1, 2021
BMO Corporate Discount Bond ETF	July 19, 2022
BMO Equal Weight Banks Index ETF	March 23, 2022
BMO Equal Weight U.S. Health Care Index ETF	October 31, 2019
BMO Global Consumer Discretionary Headged to CAD Index ETF	June 1, 2022
BMO Long-Term U.S. Treasury Bond Index ETF	July 16, 2021
BMO Low Volatility International Equity Hedged to CAD ETF	September 9, 2019
BMO Low Volatility U.S. Equity Hedged to CAD ETF	March 31, 2020
BMO Money Market Fund ETF Series	May 3, 2022
BMO MSCI Next Gen Internet Innovation Index ETF	January 27, 2021
BMO MSCI Tech & Industrial Innovation Index ETF	February 28, 2022
BMO S&P/TSX Equal Weight Industrials Index ETF	July 6, 2022
BMO Short Corporate Bond Index ETF	February 21, 2017
BMO Short Provincial Bond Index ETF	October 6, 2017
BMO Short-Term US Treasury Bond Index ETF	May 6, 2019
BMO Ultra Short-Term Bond ETF	June 28, 2022
BMO US High Dividend Covered Call Hedged to CAD ETF	February 8, 2019
BMO US Preferred Shared Hedged to CAD ETF	May 12, 2021
Brompton Flaherty & Crumrine Enhanced Investment Grade Preferred ETF	April 18, 2022
Brompton Flaherty & Crumrine Investment Grade Preferred ETF	May 13, 2022
Brompton Tech Leaders Income ETF	June 21, 2022
CI Alternative Diversified Opportunities Fund	August 26, 2021

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Description	Date Added
CI DoubleLine Income US\$ Fund ETF	June 14, 2022
CI DoubleLine Total Return Bond US\$ Fund	March 14, 2022
CI Enhanced Government Bond ETF	May 1, 2019
CI Investment Grade Bond ETF	May 1, 2019
CI Marret Alternative Absolute Return Bond Fund	January 29, 2020
CI MSCI World ESG Impact ETF	March 31, 2020
CI Munro Alternative Global Growth Fund ETF	March 1, 2021
CI Short Term Government Bond Index Class ETF	May 26, 2022
CIBC Flexible Yield ETF (CAD-Hedged)	January 17, 2022
CIBC Global Growth ETF	September 4, 2020
Dynamic Active Investment Grade Floating Rate ETF	March 18, 2020
Dynamic Active Preferred Shares ETF	September 3, 2020
Dynamic Active Retirement Income+ ETF	May 4, 2022
Dynamic Active U.S. Mid-Cap ETF	November 29, 2021
Electric Vehicle Charging Infrastructure Equity UCITS ETF	April 27, 2022
Evolve Active Core Fixed Income ETF	April 12, 2018
Evolve Automobile Innovation Index Fund	February 1, 2022
Evolve FANGMA Index ETF	May 11, 2021
Fidelity Global Investment Grade Bond ETF	May 19, 2021
Fidelity International High Dividend Index ETF	July 19 2021
Fidelity U.S. High Dividend Currency Neutral Index ETF	March 12, 2019
Fidelity U.S. High Quality Currency Neutral Index ETF Fund	January 13, 2022
Fidelity U.S. Value Index ETF	January 13, 2022
First Trust AlphaDEX U.S. Health Care Sector Index ETF	June 6, 2022
First Trust AlphaDEX U.S. Industrials Sector Index ETF	September 5, 2019
First Trust AlphaDEX U.S. Technology Sector Index ETF	August 12, 2016
First Trust Cboe Vest U.S. Equity Buffer ETF - August	July 14, 2021
First Trust Cboe Vest U.S. Equity Buffer ETF - February	April 28, 2022
First Trust Cloud Computing ETF	November 2, 2021

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Description	Date Added
First Trust Dow Jones Internet ETF	January 25, 2022
First Trust Global Capital Strength ESG Leaders UCITS ETF	July 13, 2022
First Trust Indxx Innovative Transaction and Process ETF	August 29, 2018
First Trust JFL Global Equity ETF	August 30, 2021
First Trust Limited Duration Investment Grade Corporate ETF	May 26, 2022
First Trust Low Duration Global Government Bond UCITS ETF	September 17, 2021
First Trust Morningstar Dividend Leaders ETF (CAD-Hedged)	March 9, 2021
First Trust NASDAQ Clean Edge Smart Grid Infrastructure UCITS ETF	April 25, 2022
FMQQ Next Frontier Internet & Ecommerce ESG-S UCITS ETF	January 11, 2022
Franklin FTSE Canada ETF	February 10, 2022
Franklin Liberty Short Duration Bond ETF	October 20, 2021
Franklin Risk Managed Canadian Equity Active ETF	May 17, 2022
Goldman Sachs ActiveBeta Paris-Aligned Climate U.S. Large Cap Equity ETF	December 14, 2021
Goldman Sachs ActiveBeta World Low Vol Plus Equity ETF	March 18, 2022
Goldman Sachs Bloomberg Clean Energy Equity ETF	February 11, 2022
Hamilton Global Financials ETF	July 1, 2020
Harvest Tech Achievers Growth & Income ETF	May 24, 2022
Horizons Active Floating Rate Senior Loan ETF	April 22, 2022
Horizons Active Hybrid Bond and Preferred Share ETF	November 22, 2019
Horizons Active Preferred Share ETF	June 3, 2015
Horizons Active Ultra Short Term U.S. Investment Grade Bond ETF	June 23, 2021
Horizons Copper Producers Index ETF	May 27, 2022
Horizons Global BBIG Technology ETF	August 30, 2021
Horizons Laddered Canadian Preferred Share Index ETF	July 2, 2021
Horizons Seasonal Rotation ETF	June 6, 2019
Horizons Tactical Absolute Return Bond ETF	February 16, 2021
IA Clarington Core Plus Bond Fund ETF	September 24, 2021
IA Clarington Floating Rate Income Fund ETF	November 6, 2019
IA Clarington Loomis Global Allocation Fund ETF	January 12, 2022
Invesco 1-3 Year Laddered Floating Rate Note Index ETF	December 7, 2018

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Description	Date Added
Invesco 1-10 Year Laddered Investment Grade Corporate Bond Index ETF	May 27, 2022
Invesco CurrencyShares British Pound Sterling Trust	January 31, 2022
Invesco ESG Global Bond ETF	May 6, 2022
Invesco ESG NASDAQ 100 Index ETF	February 25, 2022
Invesco ESG S&P 500 Equal Weight ETF	March 21, 2022
Invesco FTSE RAFI Global Small-Mid ETF	July 19, 2019
Invesco FTSE RAFI U.S. Index ETF	August 6, 2021
Invesco FTSE RAFI U.S. Index ETF II	August 1, 2018
Invesco LadderRite U.S. 0-5 Year Corporate Bond Index ETF	March 30, 2022
Invesco Long Term Government Bond Index ETF	July 5, 2022
Invesco Low Volatility Portfolio ETF	June 8, 2021
Invesco NASDAQ 100 Equal Weight Index ETF	December 10, 2021
Invesco Nasdaq Biotechnology ETF	March 22, 2022
Invesco S&P Emerging Markets Low Volatility Index ETF	July 6, 2022
Invesco S&P 500 Equal Weighted Index ETF	March 20, 2020
Invesco S&P 500 High Dividend Low Volatility Index ETF	August 21, 2020
Invesco S&P 500 Low Volatility Index ETF	May 1, 2019
Invesco S&P Europe 350 Equal Weight Index ETF-CU	June 19, 2020
iShares 0-5 Year TIPS Bond Index ETF (CAD-Hedged)	September 2, 2021
iShares 0-5 Year TIPS Bond Index ETF	August 4, 2021
iShares 1-5 Year Laddered Government Bond Index ETF	October 18, 2019
iShares 1-5 Year U.S. IG Corporate Bond Index ETF (CAD-Hedged)	January 20, 2022
iShares 1-5 Year U.S. IG Corporate Bond Index ETF	January 20, 2022
iShares 1-10 Year Laddered Corporate Bond Index ETF	June 1, 2016
iShares 1-10 Year Laddered Government Bond Index ETF	October 1, 2012
iShares Canadian Real Return Bond Index ETF	August 26, 2021
iShares Canadian Value Index ETF	July 26, 2022
iShares China CNY Bond UCITS ETF	March 1, 2022

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Description	Date Added
iShares China Index ETF	June 7, 2022
iShares Core Canadian Short Term Corporate Bond Index ETF	May 13, 2022
iShares Core MSCI EAFE IMI Index ETF	February 25, 2020
iShares Core MSCI Emerging Markets IMI Index ETF	October 28, 2019
iShares Core MSCI US Quality Dividend Index ETF	April 20, 2020
iShares Core MSCI US Quality Dividend Index ETF (CAD-Hedged)	October 18, 2019
iShares Core S&P 500 Index ETF	April 8, 2019
iShares Core S&P U.S. Total Market Index ETF	October 28, 2019
iShares Core S&P U.S. Total Market Index ETF (CAD-Hedged)	May 31, 2019
iShares Edge MSCI Min Vol EAFE Index ETF (CAD-Hedged)	July 18, 2016
iShares ESG Aware Canadian Aggregate Bond Index ETF	September 2, 2021
iShares ESG Aware MSCI Emerging Markets Index ETF	March 1, 2021
iShares ESG MSCI EAFE Leaders Index ETF	June 16, 2021
iShares Exponential Technologies Index ETF	May 24, 2022
iShares Factors US Growth Style ETF	May 27, 2022
iShares Floating Rate Index ETF	February 1, 2022
iShares Global Government Bond Index ETF (CAD-Hedged)	July 19, 2021
iShares MSCI Min vol Emerging Markets Index ETF	June 8, 2022
iShares MSCI Multifactor EAFE Index ETF (CAD-Hedged)	August 4, 2021
iShares MSCI USA Momentum Factor Index ETF	January 18, 2022
iShares MSCI USA Quality Factor Index ETF	May 12, 2022
iShares MSCI USA Value Factor Index ETF	February 2, 2022
iShares S&P/TSX Global Base Metals Index ETF	June 23, 2022
iShares S&P U.S. Mid-Cap Index ETF	September 22, 2021
iShares S&P U.S. Mid-Cap Index ETF (CAD-Hedged)	January 25, 2019
iShares S&P U.S. Small-Cap Index ETF	April 1, 2021
iShares S&P U.S. Small-Cap Index ETF (CAD-Hedged)	February 3, 2021
iShares Short Term Strategic Fixed Income ETF	July 30, 2021
iShares U.S. Aggregate Bond Index ETF	January 24, 2022
L&G Russell 2000 Small Cap Quality UCITS ETF	July 15, 2022

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Description	Date Added
Legg Mason Low Volatility High Dividend ETF	May 2, 2022
Lyxor Net Zero 2050 S&P 500 Climate PAB (DR) UCITS ETF	September 20, 2021
Mackenzie Canadian Short Term Fixed Income ETF	September 9, 2019
Mackenzie China A-Shares CSI 300 Index ETF	May 24, 2022
Mackenzie Global Fixed Income Allocation ETF	May 19, 2022
Mackenzie Global Infrastructure Index ETF	June 7, 2022
Mackenzie International Equity Index ETF (CAD-Hedged)	April 11, 2022
Mackenzie US TIPS Index ETF (CAD-Hedged)	July 18, 2018
Manulife Multifactor Developed International Index ETF	March 18, 2020
Manulife Multifactor U.S. Small-Cap Index ETF	March 31, 2020
Manulife Smart U.S. Dividend ETF	June 21, 2022
Picton Mahoney Fortified Market Neutral Alternative Fund	February 7, 2022
PIMCO Investment Grade Credit Fund	October 25, 2017
PIMCO Low Duration Monthly Income Fund Canada	September 11, 2019
PIMCO Managed Conservative Bond Pool ETF	January 19, 2022
PIMCO Managed Core Bond Pool	February 20, 2020
PIMCO Monthly Income Fund (Canada)	August 7, 2018
Purpose Best Ideas Fund ETF	June 2, 2022
Purpose Diversified Real Asset Fund ETF	June 21, 2022
Purpose Silver Bullion Fund	May 4, 2022
Purpose US Dividend Fund	March 19, 2018
RBC 1-5 Year Laddered Canadian Bond ETF	February 18, 2016
RBC 1-5 Year Laddered Corporate Bond ETF	March 8, 2014
RBC BlueBay Global Diversified Income CAD Hedged ETF	January 8, 2018
RBC Canadian Discount Bond ETF	June 14, 2019
RBC Canadian Preferred Share ETF	September 19, 2016
RBC PH&N Short Term Canadian Bond ETF	November 27, 2017
RBC Quant Canadian Dividend Leaders ETF	March 8, 2014
RBC Quant Canadian Equity Leaders ETF	July 2, 2015
RBC Quant EAFE Dividend Leaders CAD Hedged ETF	December 9, 2014

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RBC Quant EAFE Dividend Leaders ETF	March 8, 2014
RBC Quant EAFE Equity Leaders ETF	July 2, 2015
RBC Quant EAFE Equity Leaders CAD Hedged ETF	July 2, 2015
RBC Quant Emerging Markets Dividend Leaders ETF	December 9, 2014
RBC Quant Emerging Markets Equity Leaders ETF	February 18, 2016
RBC Quant European Dividend Leaders CAD Hedged ETF	December 9, 2014
RBC Quant European Dividend Leaders ETF	December 9, 2014
RBC Quant US Dividend Leaders CAD Hedged ETF	January 6, 2015
RBC Quant US Dividend Leaders ETF	August 19, 2015
RBC Quant US Equity Leaders CAD Hedged ETF	October 30, 2015
RBC Quant US Equity Leaders ETF	July 2, 2015
RBC Short Term U.S. Corporate Bond ETF	October 30, 2017
RBC Target 2022 Corporate Bond Index ETF	September 19, 2016
RBC Target 2023 Corporate Bond Index ETF	December 7, 2017
RBC Target 2024 Corporate Bond Index ETF	December 5, 2018
RBC Target 2025 Corporate Bond Index ETF	May 13, 2019
RBC Target 2026 Corporate Bond Index ETF	December 7, 2020
RBC Target 2027 Corporate Bond Index ETF	October 26, 2021
RBC U.S. Banks Yield CAD Hedged Index ETF	September 3, 2019
RBC U.S. Banks Yield Index ETF	May 18, 2018
Russell Investments Fixed Income Pool ETF	April 22, 2020
Russell Investments Global Infrastructure Pool ETF	February 12, 2020
Russell Investments Real Assets ETF	February 26, 2020
RWS Holdings PLC	August 30, 2011
Saturna Al-Kawthar Global Focused Equity UCITS ETF	December 31, 2021
Saturna Sustainable ESG Equity Hanzero UCITS ETF	July 15, 2021
SmartETFs Advertising & Marketing Technology ETF	June 15, 2022
Starlight Global Real Estate Fund ETF	October 19, 2020
TD Morningstar ESG International Equity Index ETF	April 21, 2022