

PRESS RELEASE

VANGUARD ANNOUNCES ESTIMATED CASH DISTRIBUTIONS FOR THE VANGUARD ETFS (VAB, VSB, VSC, VLB, VCB, VGV, VRE, VDY, VCE, VCN, VFV, VSP, VUN, VUS, VGG, VGH, VE, VDU, VEF, VIU, VI, VEE, VA, VXC, VVO, VMO, VVL, VCNS, VBAL, VGRO, VCIP, VEQT, VIDY AND VRIF)

TORONTO (December 21, 2022) — Vanguard Investments Canada Inc. today announced the estimated final December 2022 cash distributions for certain Vanguard ETFs, listed below, that trade on Toronto Stock Exchange (TSX).

Unitholders of record on December 30, 2022 will receive cash distributions payable on January 09, 2023. *Please note that these are estimated amounts only as of December 15, 2022 and could change if the Vanguard ETFs experience subscriptions or redemptions prior to the ex-dividend date.*

Details of the "per unit" distribution amounts are as follows:

Vanguard ETF®	TSX Ticker Symbol	Distribution per Unit (\$)	CUSIP	ISIN	Payment Frequency
Vanguard FTSE Canada Index ETF	VCE	0.359873	92203U105	CA92203U1057	Quarterly
Vanguard FTSE Canada All Cap Index ETF	VCN	0.305284	92205P104	CA92205P1045	Quarterly
Vanguard FTSE Canadian High Dividend Yield Index ETF	VDY	0.147973	92203Q104	CA92203Q1046	Monthly
Vanguard FTSE Canadian Capped REIT Index ETF	VRE	0.315278	92203B107	CA92203B1076	Monthly
Vanguard U.S. Total Market Index ETF	VUN	0.27815	92206D100	CA92206D1006	Quarterly
Vanguard U.S. Total Market Index ETF (CAD- hedged)	VUS	0.273153	92206B104	CA92206B1040	Quarterly
Vanguard S&P 500 Index ETF	VFV	0.365686	92205Y105	CA92205Y1051	Quarterly
Vanguard S&P 500 Index ETF (CAD-hedged)	VSP	0.254531	92206A106	CA92206A1066	Quarterly
Vanguard U.S. Dividend Appreciation Index ETF	VGG	0.304106	92206F105	CA92206F1053	Quarterly
Vanguard U.S. Dividend Appreciation Index ETF (CAD-hedged)	VGH	0.209291	92206E108	CA92206E1088	Quarterly
Vanguard FTSE Developed All Cap ex North America Index ETF	VIU	0.186581	92204G105	CA92204G1054	Quarterly
Vanguard FTSE Developed All Cap ex North America Index ETF (CAD-hedged)	VI	0.211563	92206P103	CA92206P1036	Quarterly
Vanguard FTSE Developed All Cap ex U.S. Index ETF	VDU	0.320315	92206W108	CA92206W1086	Quarterly
Vanguard FTSE Developed All Cap ex U.S. Index ETF (CAD-hedged)	VEF	0.428588	92207G102	CA92207G1028	Quarterly
Vanguard FTSE Developed ex North America High Dividend Yield Index ETF	VIDY	0.277337	92202A100	CA92202A1003	Quarterly

ETF						
Index ETF		VE	0.142478	92206M100	CA92206M1005	Quarterly
ETF Vanguard FTSE Global All Cap ex Canada Index ETF VXC 0.246194 92206Q101 CA92206Q1019 Quarter		VA	0.333434	92206N108	CA92206N1087	Quarterly
ETF Vanguard Canadian Aggregate Bond Index ETF VAB 0.040488 92203E101 CA92203E1016 Month Vanguard Canadian Government Bond Index ETF VGV 0.034328 92210N102 CA92210N1024 Month Vanguard Canadian Corporate Bond Index ETF VCB 0.043318 92210P107 CA92210P1071 Month Vanguard Canadian Short-Term Bond Index ETF VSB 0.030162 92203G106 CA92203G1063 Month Vanguard Canadian Short-Term Corporate Bond Index ETF VSC 0.041409 92203N101 CA92203N1015 Month Vanguard Canadian Long-Term Bond Index ETF VLB 0.048682 92211H104 CA92211H1047 Month Vanguard Balanced ETF Portfolio VBAL 0.167404 92207E107 CA92207E1079 Quarter Vanguard Growth ETF Portfolio VCNS 0.161715 92207C101 CA92207C1014 Quarter Vanguard Conservative Income ETF Portfolio VCIP 0.153387 92208H109 CA92208H1091 Quarter Vanguard All-Equity ETF Portfolio VEQT 0.672491 92201C107 CA92201C1077		VEE	0.463705	92205X107	CA92205X1078	Quarterly
Vanguard Canadian Government Bond Index ETF VGV 0.034328 92210N102 CA92210N1024 Month Index Month Index ETF Vanguard Canadian Corporate Bond Index ETF VCB 0.043318 92210P107 CA92210P1071 Month Index ETF Vanguard Canadian Short-Term Bond Index ETF VSB 0.030162 92203G106 CA92203G1063 Month Index ETF Vanguard Canadian Short-Term Corporate Bond Index ETF VSC 0.041409 92203N101 CA92203N1015 Month Index ETF Vanguard Canadian Long-Term Bond Index ETF VLB 0.048682 92211H104 CA92211H1047 Month Index ETF Vanguard Balanced ETF Portfolio VBAL 0.167404 92207E107 CA92207E1079 Quarter Index ETF Vanguard Conservative ETF Portfolio VCNS 0.161715 92207C101 CA92207C1014 Quarter Index ETF Vanguard Conservative Income ETF Portfolio VCIP 0.153387 92208H109 CA92208H1091 Quarter Index ETF Vanguard Retirement Income ETF Portfolio VRIF 0.09039 92211X109 CA92211X1096 Month Index ETF Vanguard Global Minimum Volatility ETF VVO	9	VXC	0.246194	92206Q101	CA92206Q1019	Quarterly
Vanguard Canadian Corporate Bond Index ETF VCB 0.043318 92210P107 CA92210P1071 Monthly Vanguard Canadian Short-Term Bond Index ETF VSB 0.030162 92203G106 CA92203G1063 Monthly Vanguard Canadian Short-Term Corporate Bond Index ETF VSB 0.041409 92203N101 CA92203N1015 Monthly Index ETF Vanguard Canadian Long-Term Bond Index ETF VLB 0.048682 92211H104 CA92211H1047 Monthly Vanguard Balanced ETF Portfolio VBAL 0.167404 92207E107 CA92207E1079 Quarter Vanguard Conservative ETF Portfolio VCNS 0.161715 92207C101 CA92207C1014 Quarter Vanguard Growth ETF Portfolio VGRO 0.173307 92207X105 CA92207X1050 Quarter Vanguard Conservative Income ETF Portfolio VCIP 0.153387 92208H109 CA92208H1091 Quarter Vanguard All-Equity ETF Portfolio VEQT 0.672491 92201C107 CA92201C1077 Annual Vanguard Retirement Income ETF Portfolio VRIF 0.09039 92211X109 CA92211X1096 Monthly Vanguard Global Minimum Volatility ETF VVO 0.50056 92207Q100 CA92207Q1000 Annual	Vanguard Canadian Aggregate Bond Index ETF	VAB	0.040488	92203E101	CA92203E1016	Monthly
Vanguard Canadian Short-Term Bond Index ETFVSB0.03016292203G106CA92203G1063MonthVanguard Canadian Short-Term Corporate Bond Index ETFVSC0.04140992203N101CA92203N1015MonthVanguard Canadian Long-Term Bond Index ETFVLB0.04868292211H104CA92211H1047MonthVanguard Balanced ETF PortfolioVBAL0.16740492207E107CA92207E1079QuarterVanguard Conservative ETF PortfolioVCNS0.16171592207C101CA92207C1014QuarterVanguard Growth ETF PortfolioVGRO0.17330792207X105CA92207X1050QuarterVanguard Conservative Income ETF PortfolioVCIP0.15338792208H109CA92208H1091QuarterVanguard All-Equity ETF PortfolioVEQT0.67249192201C107CA92201C1077AnnualVanguard Retirement Income ETF PortfolioVRIF0.0903992211X109CA92211X1096MonthVanguard Global Minimum Volatility ETFVVO0.5005692207Q100CA92207Q1000Annual	0	VGV	0.034328	92210N102	CA92210N1024	Monthly
Vanguard Canadian Short-Term Corporate Bond Index ETF Vanguard Canadian Long-Term Bond Index ETF Vanguard Canadian Long-Term Bond Index ETF VB 0.048682 92211H104 CA92203N1015 Monthly Vanguard Canadian Long-Term Bond Index ETF VB 0.048682 VBAL 0.167404 92207E107 CA92207E1079 Quarter Vanguard Conservative ETF Portfolio VCNS 0.161715 92207C101 CA92207C1014 Quarter Vanguard Growth ETF Portfolio VGRO 0.173307 92207X105 CA92207X1050 Quarter Vanguard Conservative Income ETF Portfolio VCIP 0.153387 92208H109 CA92208H1091 Quarter Vanguard All-Equity ETF Portfolio VEQT 0.672491 92201C107 CA92201C1077 Annual Vanguard Retirement Income ETF Portfolio VRIF 0.09039 92211X109 CA92211X1096 Monthly Vanguard Global Minimum Volatility ETF VVO 0.50056 92207Q100 CA92207Q1000 Annual	Vanguard Canadian Corporate Bond Index ETF	VCB	0.043318	92210P107	CA92210P1071	Monthly
Index ETFVanguard Canadian Long-Term Bond Index ETFVLB0.04868292211H104CA92211H1047MonthlyVanguard Balanced ETF PortfolioVBAL0.16740492207E107CA92207E1079QuarterVanguard Conservative ETF PortfolioVCNS0.16171592207C101CA92207C1014QuarterVanguard Growth ETF PortfolioVGRO0.17330792207X105CA92207X1050QuarterVanguard Conservative Income ETF PortfolioVCIP0.15338792208H109CA92208H1091QuarterVanguard All-Equity ETF PortfolioVEQT0.67249192201C107CA92201C1077AnnualVanguard Retirement Income ETF PortfolioVRIF0.0903992211X109CA92211X1096MonthlyVanguard Global Minimum Volatility ETFVVO0.5005692207Q100CA92207Q1000Annual	Vanguard Canadian Short-Term Bond Index ETF	VSB	0.030162	92203G106	CA92203G1063	Monthly
Vanguard Balanced ETF PortfolioVBAL0.16740492207E107CA92207E1079QuarterVanguard Conservative ETF PortfolioVCNS0.16171592207C101CA92207C1014QuarterVanguard Growth ETF PortfolioVGRO0.17330792207X105CA92207X1050QuarterVanguard Conservative Income ETF PortfolioVCIP0.15338792208H109CA92208H1091QuarterVanguard All-Equity ETF PortfolioVEQT0.67249192201C107CA92201C1077AnnualVanguard Retirement Income ETF PortfolioVRIF0.0903992211X109CA92211X1096MonthVanguard Global Minimum Volatility ETFVVO0.5005692207Q100CA92207Q1000Annual	•	VSC	0.041409	92203N101	CA92203N1015	Monthly
Vanguard Conservative ETF Portfolio VCNS 0.161715 92207C101 CA92207C1014 Quarter Vanguard Growth ETF Portfolio VGRO 0.173307 92207X105 CA92207X1050 Quarter Vanguard Conservative Income ETF Portfolio VCIP 0.153387 92208H109 CA92208H1091 Quarter Vanguard All-Equity ETF Portfolio VEQT 0.672491 92201C107 CA92201C1077 Annual Vanguard Retirement Income ETF Portfolio VRIF 0.09039 92211X109 CA92211X1096 Monthl Vanguard Global Minimum Volatility ETF VVO 0.50056 92207Q100 CA92207Q1000 Annual	Vanguard Canadian Long-Term Bond Index ETF	VLB	0.048682	92211H104	CA92211H1047	Monthly
Vanguard Growth ETF PortfolioVGRO0.17330792207X105CA92207X1050QuarterVanguard Conservative Income ETF PortfolioVCIP0.15338792208H109CA92208H1091QuarterVanguard All-Equity ETF PortfolioVEQT0.67249192201C107CA92201C1077AnnualVanguard Retirement Income ETF PortfolioVRIF0.0903992211X109CA92211X1096MonthVanguard Global Minimum Volatility ETFVVO0.5005692207Q100CA92207Q1000Annual	Vanguard Balanced ETF Portfolio	VBAL	0.167404	92207E107	CA92207E1079	Quarterly
Vanguard Conservative Income ETF Portfolio VCIP 0.153387 92208H109 CA92208H1091 Quarter Vanguard All-Equity ETF Portfolio VEQT 0.672491 92201C107 CA92201C1077 Annual Vanguard Retirement Income ETF Portfolio VRIF 0.09039 92211X109 CA92211X1096 Monthly Vanguard Global Minimum Volatility ETF VVO 0.50056 92207Q100 CA92207Q1000 Annual	Vanguard Conservative ETF Portfolio	VCNS	0.161715	92207C101	CA92207C1014	Quarterly
Vanguard All-Equity ETF PortfolioVEQT0.67249192201C107CA92201C1077AnnualVanguard Retirement Income ETF PortfolioVRIF0.0903992211X109CA92211X1096MonthlyVanguard Global Minimum Volatility ETFVVO0.5005692207Q100CA92207Q1000Annual	Vanguard Growth ETF Portfolio	VGRO	0.173307	92207X105	CA92207X1050	Quarterly
Vanguard Retirement Income ETF Portfolio VRIF 0.09039 92211X109 CA92211X1096 Monthly Vanguard Global Minimum Volatility ETF VVO 0.50056 92207Q100 CA92207Q1000 Annual	Vanguard Conservative Income ETF Portfolio	VCIP	0.153387	92208H109	CA92208H1091	Quarterly
Vanguard Global Minimum Volatility ETF VVO 0.50056 92207Q100 CA92207Q1000 Annual	Vanguard All-Equity ETF Portfolio	VEQT	0.672491	92201C107	CA92201C1077	Annually
	Vanguard Retirement Income ETF Portfolio	VRIF	0.09039	92211X109	CA92211X1096	Monthly
Vanguard Global Momentum Factor ETF VMO 0.722711 92207T104 CA92207T1049 Annual	Vanguard Global Minimum Volatility ETF	VVO	0.50056	92207Q100	CA92207Q1000	Annually
	Vanguard Global Momentum Factor ETF	VMO	0.722711	92207T104	CA92207T1049	Annually
Vanguard Global Value Factor ETFVVL1.02022592207U101CA92207U1012Annual	Vanguard Global Value Factor ETF	VVL	1.020225	92207U101	CA92207U1012	Annually

To learn more about the TSX-listed Vanguard ETFs, please visit www.vanguard.ca

About Vanguard

Canadians own CAD \$72 billion in Vanguard assets, including Canadian and U.S.-domiciled ETFs and Canadian mutual funds. Vanguard Investments Canada Inc. manages CAD \$51 billion in assets (as of November 30, 2022) with 37 Canadian ETFs and six mutual funds currently available. The Vanguard Group, Inc. is one of the world's largest investment management companies and a leading provider of company-sponsored retirement plan services. Vanguard manages USD \$7.5 trillion (CAD \$10 trillion) in global assets, including over USD \$2.1 trillion (CAD \$2.9 trillion) in global ETF assets (as of November 30, 2022). Vanguard has offices in the United States, Canada, Mexico, Europe, Australia and Asia. The firm offers 431 funds, including ETFs, to its more than 30 million investors worldwide.

Vanguard operates under a unique operating structure. Unlike firms that are publicly held or owned by a small group of individuals, The Vanguard Group, Inc. is owned by Vanguard's U.S.-domiciled funds and ETFs. Those funds, in turn, are owned by Vanguard clients. This unique mutual structure aligns Vanguard interests with those of its investors and drives the culture, philosophy, and policies throughout the Vanguard organization worldwide. As a result, Canadian investors benefit from Vanguard's stability and experience, low-cost investing, and client focus. For more information, please visit vanguard.ca.

###

For more information, please contact:

Matt Gierasimczuk Vanguard Canada Public Relations

Phone: 416-263-7087

matthew gierasimczuk@vanguard.com

Important information

Commissions, management fees, and expenses all may be associated with investment funds. Investment objectives, risks, fees, expenses, and other important information are contained in the prospectus; please read it before investing. Investment funds are not guaranteed, their values change frequently, and past performance may not be repeated. Vanguard funds are managed by Vanguard Investments Canada Inc. and are available across Canada through registered dealers.

London Stock Exchange Group companies include FTSE International Limited ("FTSE"), Frank Russell Company ("Russell"), MTS Next Limited ("MTS"), and FTSE TMX Global Debt Capital Markets Inc. ("FTSE TMX"). All rights reserved. "FTSE®", "Russell®", "MTS®", "FTSE TMX®" and "FTSE Russell" and other service marks and trademarks related to the FTSE or Russell indexes are trademarks of the London Stock Exchange Group companies and are used by FTSE, MTS, FTSE TMX and Russell under licence. All information is provided for information purposes only. No responsibility or liability can be accepted by the London Stock Exchange Group companies nor its licensors for any errors or for any loss from use of this publication. Neither the London Stock Exchange Group companies nor any of its licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the results to be obtained from the use of the FTSE Indexes or the fitness or suitability of the Indexes for any particular purpose to which they might be put.

The S&P 500 Index is a product of S&P Dow Jones Indices LLC ("SPDJI"), and has been licensed for use by The Vanguard Group, Inc. (Vanguard). Standard & Poor's®, S&P® and S&P 500® are registered trademarks of Standard & Poor's Financial Services LLC ("S&P"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); and these trademarks have been licensed for use by SPDJI and sublicensed for certain purposes by Vanguard. Vanguard ETFs are not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, their respective affiliates, and none of such parties make any representation regarding the advisability of investing in such product(s) nor do they have any liability for any errors, omissions, or interruptions of the S&P 500 Index.