BMO Financial Group

Supplementary Regulatory Capital Information

For the Quarter Ended - October 31, 2022

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BMO (22) Financial Group

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This report is unaudited and all amounts are in millions of Canadian dollars, unless otherwise indicated.



Use of this Document

The supplemental information contained in this package is designed to improve the readers' understanding of the capital requirements of BMO Financial Group (the Bank). This information should be used in conjunction with the Bank's Fourth Quarter 2022 Earnings Release and the 2022 Annual Report available on SEDAR at www.bmo.com/investorrelations.

Additional financial information is also available in the Q4 2022 Supplementary Financial Information, and the Q4 2022 Investor Presentation which can be accessed at our website at www.bmo.com/investorrelations.

This report is unaudited and all amounts are in millions of Canadian dollars, unless indicated otherwise.

Items indicated n.a. were not applicable.

Regulatory Framework

Regulatory capital requirements for BMO are determined in accordance with guidelines issued by the Office of the Superintendent of Financial Institutions (OSFI), which are based on the Basel III framework developed by the Basel Committee on Banking Supervision (BCBS). The measures and disclosures herein are presented in accordance with OSFI's Pillar 3 Requirements Guideline and the Enhanced Disclosure Task Force (EDTF) regulatory capital related disclosures and reflect our adherence with, as applicable, OSFI's Capital Adequacy Requirements (CAR) Guideline, Leverage Requirements Guideline, and Total Loss Absorbing Capacity (TLAC) Guideline.

Changes

In March 2020, OSFI's letter to Federally Regulated Deposit-Taking Institutions (DTIs) introduced an adjustment to Common Equity Tier 1 (CET1) capital for Expected Credit Loss (ECL) provisioning. The adjustment to CET1 capital is measured each quarter as the increase in Stage 1 and Stage 2 allowances relative to January 31, 2020. The increased amount is adjusted for tax effects and subject to a scaling factor. The scaling factor was set at 70% in fiscal 2020, 50% in fiscal 2021 and 25% in fiscal 2022. We implemented this adjustment effective Q2 2020.

In April 2020, OSFI announced temporary exclusions to the Leverage Ratio Requirements. Such exclusions are limited to central bank reserves and securities issued by sovereigns that qualify as High Quality Liquid Assets under the Liquidity Adequacy Requirements Guideline. We adopted this treatment prospectively effective Q2 2020 and it remained in place through Q4 2021.

In August 2021, OSFI announced the exclusion of securities issued by sovereigns that qualify as High Quality Liquid Assets under the Liquidity Adequacy Requirements Guidelines from the leverage ratio exposure measure would not be extended past December 31, 2021. Central bank reserves will continue to be excluded from the leverage ratio measure.

On November 1, 2021, the minimum TLAC requirements set by OSFI came into effect. The minimum risk based TLAC ratio is set at 24% of RWA, including a 2.5% Domestic Stability Buffer. The minimum TLAC Leverage Ratio is set at 6.75%.

Users may provide their comments and suggestions on the Supplementary Regulatory Capital Information document by contacting Bill Anderson at (416) 867-7834 or bill2.anderson@bmo.com



	Tables and Templates	Frequency	Q4 2022 Supplementary Financial Information	Q4 2022 Supplementary Regulatory Capital Information	2022 Annual MD&A	2022 Annual Financial Statements
					eference	
Overview of Risk Management, Key	KM2 - Key metrics - TLAC requirements	Quarterly		7		
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,,	LIA - Explanations of differences between accounting and regulatory exposure amounts	Annual		12-13	114-115	186-192
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	CC1 - Composition of regulatory capital	Quarterly		3-4		
0	CC2 - Reconciliation of regulatory capital to balance sheet	Quarterly		5		
Composition of Capital and TLAC	TLAC1 - TLAC composition	Quarterly		8		
	TLAC2 - Material subgroup entity - creditor ranking at legal entity level	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Not applicable to Bl	MO	
	TLAC3 - Resolution entity - creditor ranking at legal entity level	Quarterly		9		
. D.:	LR1 - Summary comparison of accounting assets vs leverage ratio exposure measure	Quarterly		10		
Leverage Ratio	LR2 - Leverage ratio common disclosure	Quarterly		10		
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	CRB - Additional disclosures related to the credit quality of assets - Quantitative disclosures	Quarterly	26-32, 34	14, 32-34		110,100 101
	CRC - Qualitative disclosure requirements related to credit risk mitigation techniques	Annual	20 02, 0 .	11,0201	83-85, 89	173, 187
	CR3 - Credit risk mitigation techniques - overview	Quarterly		16	00 00, 00	170, 107
	CRD - Qualitative disclosures on banks' use of external credit ratings under the standardized approach for credit risk	Annual		19-20	86-87	
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	CR5 - Standardized approach - exposures by asset classes and risk weights	Quarterly		19-20		
	CRE - Qualitative disclosures related to IRB models	Annual		32	85-87, 106-107	
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	CR6 - IRB - Credit risk exposures by portfolio and PD range CR7 - IRB - Effect on RWA of credit derivatives used as CRM techniques	Quarterly	lunn a et i a			22 feetnate 2
	·		Impact is	immaterial and has bee	en disclosed in page a	52, 100thote 3.
	CR8 - RWA flow statements of credit risk exposures under IRB	Quarterly		31	00.07.407	-
	CR9 - IRB - Backtesting of probability of default (PD) per portfolio	Annual		Not applicable to Di	86-87, 107	
	CR10 - IRB (specialized lending and equities under the simple risk-weight method)			Not applicable to B		
	CCRA - Qualitative disclosure related to counterparty credit risk	Annual		0.5	83-84, 99	
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Counterparty Credit Risk	CCR4 - IRB - CCR exposures by portfolio and PD scale	Quarterly Quarterly		39-43		
	CCR5 - Composition of collateral for CCR exposure					-
	CCR6 - Credit derivatives exposures	Quarterly		A5	140	
	CCR7 - RWA flow statements of CCR exposures under Internal Model Method (IMM) CCR8 - Exposures to central counterparties	Quarterly	I	Not applicable to Bl	VIO	
	SECA - Qualitative disclosure requirements related to securitization exposures	Annual		40	71-72, 85	146, 150-151, 163-166
	SEC1 - Securitization exposures in the banking book	Quarterly		49-50	11-12,00	1-0, 130-131, 103-100
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Securitization	SEC3 - Securitization exposures in the trading book SEC3 - Securitization exposures in the banking book and associated regulatory capital requirements (bank acting as originator or	Quarterly		31-32		
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	SEC4 - Securitization exposures in the banking book and associated capital requirements (bank acting as investor)	Quarterly		55-56		
	MRA - Qualitative disclosure requirements related to market risk					
	MRB - Qualitative disclosures for banks using the Internal Models Approach (IMA)					
	MRB - Qualitative disclosures for banks using the Internal Models Approach (IMA) MR1 - Market risk under standardized approach	-				
Market Risk	MR1 - Market risk under standardized approach	BMO has	deferred these disclos	ures as allowed per OS	FI's Pillar 3 guidance	issued April 2017
Market Risk	MR1 - Market risk under standardized approach MR2 - RWA flow statements of market risk exposures under an IMA	BMO has	deferred these disclos	ures as allowed per OS	FI's Pillar 3 guidance	issued April 2017
Market Risk	MR1 - Market risk under standardized approach MR2 - RWA flow statements of market risk exposures under an IMA MR3 - IMA values for trading portfolios	BMO has	deferred these disclos	ures as allowed per OS	FI's Pillar 3 guidance	issued April 2017
	MR1 - Market risk under standardized approach MR2 - RWA flow statements of market risk exposures under an IMA MR3 - IMA values for trading portfolios MR4 - Comparison of VaR estimates with gains/losses	-	deferred these disclos	ures as allowed per OS		issued April 2017
Operational Risk	MR1 - Market risk under standardized approach MR2 - RWA flow statements of market risk exposures under an IMA MR3 - IMA values for trading portfolios MR4 - Comparison of VaR estimates with gains/losses General qualitative information on a bank's operational risk framework	Annual	deferred these disclos	ures as allowed per OS	104-107	issued April 2017
	MR1 - Market risk under standardized approach MR2 - RWA flow statements of market risk exposures under an IMA MR3 - IMA values for trading portfolios MR4 - Comparison of VaR estimates with gains/losses	-	deferred these disclos	ures as allowed per OS		issued April 2017

⁽¹⁾ CCA is available at https://www.bmo.com/home/about/banking/investor-relations/regulatory-disclosure.

⁽²⁾ Current and previous years' GSIB1 disclosure is available at https://www.bmo.com/main/about-bmo/banking/investor-relations/financial-information#2022

CC1 - COMPOSITION OF REGULATORY CAPITAL (1) BMO Cross Cross

Common Equity Tier 1 Capital: instruments and reserved. a	Common Equity Ter 1 Capital instruments and reserves 18,061 17,707 17,365 13,344 13,344 13,3	/ft:		Cross	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
Demoty bissued qualifying common share capital plans related stock surplus 13.412 17.750 17.75	1 Directly issued qualifying common abare capital place related stock surplus 3-b 18,061 17,777 17,359 13,0444 13.0 1,000	(\$ mi		reference (2)	Q4 2022	Q3 2022	QZ 2022	Q1 2022	Q4 2021
Petalinic earnings	Restancing carmings Common Extractive Co	١.,			40.004	4= ===	47.050	40.044	10.010
Demonth issued capability from CETT (2) mind paties (amount allowed in group CET1)	Common Equity Test 1 Capital depet on plases of the mode of the	1				17,707	17,356	13,944	
Demonth issued capability from CETT (2) mind paties (amount allowed in group CET1)	Common Equity Test 1 Capital depet on plases of the mode of the	3	Accumulated other comprehensive income (and other reserves)	ď		1.926	1.253	2.789	
Common Equity Tier 1 Capital before regulatory adjustments	Common Equity Tief 1 Capital before regulatory adjustments	4	Directly issued capital subject to phase out from CET1 (3)	_					
Common Equity Tier 1 Capital: regulatory adjustments 155 150	Common Equity Tier 1 Capital: regulatory adjustments 120 134 110 150		Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)			-	-		-
Prudential valuation adjustments 128 134 119 188 188 189 180	Producting valuation adjustments Cocked Cocked Cord of related table bilding Cocked	6			64,730	61,286	59,884	54,246	51,965
Second control (net of related fax idability)	Socio-constitution for fortional ax inability ent-fig	7			125	124	110	108	99
Defer intangibles other than mortigage-servicing rights (not of related tax liability) Deference in a seaste sockulering lowes arraing from impropary differences, the of related tax liability) Deference in a seaste sockulering lower arraing from impropary differences, the of related tax liability) Deference in a seaste sockulering and a seaste sockulering and the seaste of t	9 Other intangables other than montgage-servicing rights (not of related tax liability) h-1 1,809 1,737 1,826 1,813 1,9	8		e+f-a					
Securitization gein on sale Securitization g	Case flow focgo reserve expected closses Case of the company o	9	Other intangibles other than mortgage-servicing rights (net of related tax liability)						
Securitization gein on sale Securitization g	Case flow focgo reserve expected closses Case of the company o	10	Deferred tax assets excluding those arising from temporary differences (net of related tax liability)		7 7	3	1	14	13
Non-significant investments in the capital of banking, financial and insurance entities, not of eligible short positions (amount above 10% threshold) in the control of the	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (gmount above 10% threshold) and above 10% threshold) 19 Significant investments in the capital of banking, financial and insurance entities that are cutside the scope of Significant investments in the capital of the state of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of Significant investments in the capital of Significant investments in the capital of the Significant investments in the capital of Significant investments in the capital significant investments in the capital significant investments in Investments in Significant investments in Invest	11	Cash flow hedge reserve		(5,128)	(2,508)	(2,974)	(431)	185
Non-significant investments in the capital of banking, financial and insurance entities, not of eligible short positions (amount above 10% threshold) in the control of the	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (gmount above 10% threshold) and above 10% threshold) 19 Significant investments in the capital of banking, financial and insurance entities that are cutside the scope of Significant investments in the capital of the state of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of Significant investments in the capital of Significant investments in the capital of the Significant investments in the capital of Significant investments in the capital significant investments in the capital significant investments in Investments in Significant investments in Invest	13	Securitization gain on sale	m	-	-	-		-
Non-significant investments in the capital of banking, financial and insurance entities, not of eligible short positions (amount above 10% threshold) in the control of the	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (gmount above 10% threshold) and above 10% threshold) 19 Significant investments in the capital of banking, financial and insurance entities that are cutside the scope of Significant investments in the capital of the state of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of Significant investments in the capital of Significant investments in the capital of the Significant investments in the capital of Significant investments in the capital significant investments in the capital significant investments in Investments in Significant investments in Invest	14	Gains or losses due to changes in own credit risk on fair valued liabilities			881			(320)
Non-significant investments in the capital of banking, financial and insurance entities, not of eligible short positions (amount above 10% threshold) in the control of the	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (gmount above 10% threshold) and the common stock of banking, financial and insurance entities that are outside the scope of Significant investments in the capital of banking, financial and insurance entities that are outside the scope of Mortgage servicing rights (amount above 10% threshold)	15	Defined benefit pension fund net assets (net of related tax liability)		886	900	1,026	`705´	`704
Non-significant investments in the capital of banking, financial and insurance entities, not of eligible short positions (amount above 10% threshold) in the control of the	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (gmount above 10% threshold) and above 10% threshold) 19 Significant investments in the capital of banking, financial and insurance entities that are cutside the scope of Significant investments in the capital of the state of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of the scope of Significant investments in the capital of Significant investments in the capital of Significant investments in the capital of the Significant investments in the capital of Significant investments in the capital significant investments in the capital significant investments in Investments in Significant investments in Invest	16	investments in own snares (if not already netted off paid-in capital on reported balance sneet)	р	-	-	-	-	-
(amount above 10% threshold) Sqnifficant investments in the common stock of banking, financial and insurance entities that are outside the scope of Mortgage servicing rights (amount above 10% threshold) Mortgage servicing rights (amount above 10% threshold) Deferred tax assels arising from temporary differences (amount above 10% threshold) of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: deferred tax assels arising from temporary differences (amount above 10% threshold) Of which: desified as equity Tier 1 Capital (EET1) Of which: desified as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards (amount allowed in group AT1) Of which: dissilided as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards Of which: desified as equity under applicable accounting standards Of which: d	(amount above 10% threshold) Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold) The provided for the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold) Amount exceeding the 15% threshold Amount exceeding the 15% threshold in the common stock financials of which significant investments in the common stock financials of which significant investments to the common stock financials of which significant investments to CET as determined by OSFI (4) Common Equity Tier 1 Capital to Cert may reflect the common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover 1 Total regulatory adjustments by Common Equity Tier 1 Capital 2 Total regulatory adjustments to Cert man Equity Tier 1 Capital (ECT) 2 Common Equity Tier 1 Capital (ECT) 3 Common Equity Tier 1 Capital (ECT) 4 Common Equity Tier 1 Capital (ECT) 4 Common Equity Tier 1 Capital (ECT) 5 Common Equity Tier 1 Capital (ECT) 5 Common Equity Tier 1 Capital (ECT) 6 Common Equity Tier 1 Capital (ECT) 6 Common Equity Tier 1 Capital (ECT) 6 Common Equity Tier 1 Capital (ECT) 7 Capital (ECT) 8 Common Equity Tier 1 Capital (ECT) 8 Common Equity Tier 1 Capital (ECT) 8 Common Equity Tier 1 Capital (ECT) 9 Common		Non-significant investments in the capital of banking financial and insurance entities, net of eligible short positions		-	-	-	-	-
regulatory consolidation, net of eligible short positions (amount above 10% threshold) Mortgage servicing rights (amount above 10% threshold) and the streshold of the streshol	regulatory consolidation, net of eligible short positions (amount above 10% threshold) Mortgage servicing rights (amount above 10% threshold) Amount exceeding the 15% threshold Amount exceeding the 15% threshold Amount exceeding the 15% threshold of which: significant investments in the common stock financials of which: significant investments the common stock financials College deductions or regulatory adjustments to CETT as determined by OSFI (4) Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions or regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions or regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT as determined by OSFI (4) Total regulatory adjustments to CETT and Tier 1 and Tier 2 to cover deditional Tier 1 Capital (ETT) with transitional arrangements for ECL provisioning not applied Total regulatory adjustments to CETT and Tier 1 and Tier 2 to cover deductions or regulatory adjustments and transitional arrangements or regulatory adjustments and provisions (and transitional arrangements for E	10	(amount above 10% threshold)		-	-	-	-	-
Mortgage servicing rights (amount above 10% threshold) Deferred tax assets aring from temporary differences (amount above 10% threshold, net of related tax liability) Amount according the 10 featureship. Amount according to 10 featureship. Amount according the 10 featureship. Amount according to 10 featureship. Amount a	Mortgage servicing rights (amount above 10% threshold)	19	Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of						
Deferred tax assels arising from temporary differences (amount above 10% threshold, net of related tax liability) Amount accaseding the 10% threshold. A common stock financials Of which: deferred tax assels arising from temporary differences Of which: deferred tax assels arising from temporary differences Of which: deferred tax assels arising from temporary differences Of which: deferred tax assels arising from temporary differences Of which: deferred tax assels arising from temporary differences Of which: deferred tax assels arising from temporary differences Of which: deferred tax assels arising from temporary differences Of the deductions or regulatory adjustments to Common Equity Ter 1 Capital (ETI) Total regulatory adjustments to Common Equity Ter 1 Capital (ETI) Of the dequality Ter 1 Capital (ETI) Of the dequality Ter 1 Capital (ETI) Of the dequality Ter 1 Capital (ETI) with transitional arrangements for ECL provisioning not applied Of the dequality Ter 1 Capital (ETI) with transitional arrangements for ECL provisioning not applied Of the dequality Ter 1 Capital (ETI) with transitional arrangements for ECL provisioning not applied Of which: instruments Directly issued qualifying Additional Ter 1 relative transitional arrangements or the degrate of the	Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability) 2 Amount exceeding the 15% threshold of which: significant investments in the common stock financials of which: significant investments in the common stock financials of which: significant investments in the common stock financials of which: significant investments in the common stock financials of which: significant investments in the common stock financials of which: significant investments in the capital certain of the unit of which is significant investments in the capital (EET) as determined by OSFI (4) 2 Office of the common Equity Tier 1 Capital (EET) as determined by OSFI (4) 2 Common Equity Tier 1 Capital (EET) with transitional arrangements for ECL provisioning not applied (6), 735 (5), 53, 14 (5), 64, 62 (7), 54, 75 (7), 60 (4), 44, 44, 15 (6), 75 (7), 75				-	-	-	-	-
of which: disprilicant investments in the common stock financials of which: defired as assets arising financial movestments of the common stock financials of which: defired as assets arising financial movestments of the common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 7 Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 8 3,839	23 of which: inortgage servicing rights 1.5	20	worgage servicing ngins (amount above 10% unesticid). Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability).		-	-	-	-	-
of which: disprilicant investments in the common stock financials of which: defired as assets arising financial movestments of the common stock financials of which: defired as assets arising financial movestments of the common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 7 Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 8 3,839	of which: includings exercising rights exercised in the common stock innociaes of children includings exercising rights exercised in the common stock innociaes of children includings exercised in the common stock innociaes of children in th	22	Amount exceeding the 15% threshold		-	-	-	-	-
Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 3,839 5,822 5,109 6,636 7,474	Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 3,839 5,822 5,109 6,636 74,4	23	of which: significant investments in the common stock financials		-	-	-	-	-
Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 3,839 5,822 5,109 6,636 7,474	Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 3,839 5,822 5,109 6,636 74,4	24	of which: mortgage servicing rights		-	-	-	-	-
Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 3,839 5,822 5,109 6,636 7,474	Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions 3,839 5,822 5,109 6,636 7,44	26	of which, defended tax assets arising from temporary unfertences Other deductions or regulatory adjustments to CET1 as determined by OSEI (4)	a	(156)	(150)	(133)	(152)	(326)
deductions			Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover	4	(100)	(100)	(100)	(102)	(020)
290 Common Equity Tier 1 Capital (CET1) with transitional arrangements for ECL provisioning not applied 60,735 55,484 54,775 47,610 44,495	292 Common Equity Tier 1 Capital (CET1) (15 capital (CET1) with transitional arrangements for ECL provisioning not applied 60,735 55,844 54,75 47,610 44,4 Additional Tier 1 Capital instruments Additional Tier 1 instruments plus related stock surplus r 6,308 5,308 5,208 4,958 5,5 30		deductions		-	-	-	-	-
Common Equity Tier 1 Capital (CET1) with transitional arrangements for ECL provisioning not applied 60,735 55,314 54,642 47,458 44,165	293 Common Equity Tier 1 Capital (CET1) with transitional arrangements for ECL provisioning not applied 60,735 55,314 54,642 47,458 44,1				-,			-,	
Additional Tier 1 Capital: instruments	Additional Tier 1 Capital: instruments and additional Tier 1 instruments plus related stock surplus 7						- / -		
Directly issued qualifying Additional Tier 1 instruments plus related stock surplus r 6,308 5,308 5,208 4,958 5,558 31 of which: classified as equity under applicable accounting standards r 6,308 5,208 4,958 5,558 32 of which: classified as equity under applicable accounting standards r r r r r r r r r	Directly issued qualifying Additional Tier 1 instruments plus related stock surplus f 6,308 5,208 4,958 5,5 5,5 5,008 4,958 5,5 5,5 5,009 5,208 4,958 5,5 5,5 5,009 5,209	29a			60,735	55,314	54,642	47,458	44,165
of which: classified as labilities under applicable accounting standards of which: classified as labilities under applicable accounting standards of the which: classified as labilities under applicable accounting standards of the which: classified as labilities under applicable accounting standards of the which: classified as labilities under applicable accounting standards of the which: classified as labilities under applicable accounting standards of the which: distributional Tier 1 classified as labilities under a class	of which: classified as equity under applicable accounting standards of which classified as liabilities under applicable accounting standards of which classified as liabilities under applicable accounting standards or which classified as liabilities under applicable accounting standards or which classified as liabilities under applicable accounting standards or which classified as liabilities under applicable accounting standards or which classified as liabilities under applicable accounting standards or which instruments subject to phase out from Additional Tier 1 instruments instruments in instruments (and CET1 instruments instead by subsidiaries subject to phase out (3) or which: instruments instead by subsidiaries subject to phase out (3) or which instruments in own Additional Tier 1 instruments Additional Tier 1 Capital : regulatory adjustments Investments in own Additional Tier 1 instruments Investments in own Additional Tier 1 instruments Investments in own Additional Tier 1 instruments Investments in the capital of banking, financial and insurance entities, net of eligible short positions (an unit above 10% threshold) Significant investments in the capital of banking, financial and insurance entities that are outside the scope of validation, and the capital of banking, financial and insurance entities that are outside the scope of validation, and the capital of banking, financial and insurance entities that are outside the scope of validation validation, and the capital of banking, financial and insurance entities that are outside the scope of validation validation, and the capital of banking, financial and insurance entities, net of eligible short positions (and the capital of banking, financial and insurance entities, net of eligible short positions (and the capital of banking, financial and insurance entities, net of eligible short positions (and the capital of banking, financial and insurance entities, net of eligible short positions (and the capital of banking, financial and insurance entitie	30			6 308	5 308	5 208	4 058	5 559
of which: classified as liabilities under applicable accounting standards 30 Directly issued capital instruments subject to phase out from Additional Tier 1 (3) 30 Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1) 31 of which: instruments issued by subsidiaries subject to phase out (3) 32 Additional Tier 1 Capital before regulatory adjustments 33 Additional Tier 1 Capital before regulatory adjustments 44 Additional Tier 1 Capital instruments in a capital possible of the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) 33 Non-significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold) 40 Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory ocnsolidation, net of eligible short positions (and the capital of banking, financial and insurance entities that are outside the scope of regulatory ocnsolidation, net of eligible short positions (and the capital of banking, financial and insurance entities that are outside the scope of regulatory adjustments in the capital of banking, financial and insurance entities that are outside the scope of regulatory adjustments in the capital of banking, financial and insurance entities that are outside the scope of regulatory adjustments in the capital of banking, financial and insurance entities that are outside the scope of regulatory adjustments in the capital of banking, financial and insurance entities that are outside the scope of regulatory adjustments in the capital of banking, financial and insurance entities that are outside the scope of regulatory adjustments in the capital of banking, financial and insurance entities that are outside the scope of regulatory adjustments in the capital of banking,	33	31	of which: classified as equity under applicable accounting standards	'				4,958	5,558
Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1) of which: instruments issued by subsidiaries subject to phase out (3) Additional Tier 1 Capital before regulatory adjustments Additional Tier 1 Capital regulatory adjustments Investments in own Additional Tier 1 instruments Additional Tier 1 Capital regulatory adjustments Investments in own Additional Tier 1 instruments Additional Tier 1 Capital regulatory adjustments Investments in own Additional Tier 1 instruments Additional Tier 1 Capital regulatory adjustments Investments in own Additional Tier 1 instruments Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) Additional Tier 1 Capital regulatory adjustments and provisions Investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) Additional Tier 1 Capital (amount above 10% threshold) Addi	Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1) 36 Additional Tier 1 Capital before regulatory adjustments 37 Investments in own Additional Tier 1 instruments 38 Reciprocal cross holdings in Additional Tier 1 instruments 39 Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) 40 Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions 41 Other deductions from Tier 1 Capital as determined by OSFI 42 Total regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 43 Total regulatory adjustments applied to Additional Tier 1 Capital 44 Additional Tier 1 instruments on the capital of Danking financial and insurance entities, net of eligible short positions (amount above 10% threshold) 45 Tier 1 Capital (AT1) 46 Additional Tier 1 instruments on the capital of Danking financial and insurance entities, net of eligible short positions (amount above 10% threshold) 47 Total requilatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 48 Regulatory adjustments applied to Additional Tier 1 Capital 49 Additional Tier 1 Capital (AT1) 40 Additional Tier 1 Capital (AT1) 41 Additional Tier 1 Capital (AT1) 42 Total total (AT1) 43 Total regulatory adjustments and provisions 44 Additional Tier 1 Capital (AT1) 45 Tier 1 Capital (AT1) 46 Directly issued qualifying Tier 2 instruments plus related stock surplus 47 V 8,003 48 Reference on the capital (AT2) 48 Tier 1 Capital instruments and provisions 49 Non-significant investments (and CET1 instruments (and CET1 and AT1 inst	32	of which: classified as liabilities under applicable accounting standards		-	-	-	-	-
parties (amount allowed in group AT1)	parties (amount allowed in group AT1)		Directly issued capital instruments subject to phase out from Additional Tier 1 (3)	S	n.a.	n.a.	n.a.	n.a.	-
35	35 Of which: instruments issued by subsidiaries subject to phase out (3) n.a.	34			-	-	-	-	-
Additional Tier 1 Capital before regulatory adjustments 6,308 5,308 5,208 4,958 5,558	Additional Tier 1 Capital before regulatory adjustments Additional Tier 1 Capital: regulatory adjustments Investments in own Additional Tier 1 instruments Reciprocal cross holdings in Additional Tier 1 instruments applied banking, financial and insurance entities, net of eligible short positions Reciprocal cross holdings in Additional Tier 1 instruments and provisions U 78 78 78 78 78 78 78 78 78 78 78 78 78	35			n.a.	n.a.	n.a.	n.a.	-
37 Investments in own Additional Tier 1 instruments 1	37 Investments in own Additional Tier 1 instruments 10 6 9 9 8 8 8 6 9 9 9 9 9 9 9 9 9	36	Additional Tier 1 Capital before regulatory adjustments			5,308			5,558
Reciprocal cross holdings in Additional Tier 1 instruments Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) 40 Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions 41 Other deductions from Tier 1 Capital as determined by OSFI 42 Other deductions from Tier 1 Capital as determined by OSFI 43 Total regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 44 Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 45 Total regulatory adjustments applied to Additional Tier 1 Capital 46 Additional Tier 1 Capital (AT1) 47 Total regulatory adjustments applied to Additional Tier 1 Capital 48 Tier 1 Capital (T1 = CET1 + AT1) 48 Tier 1 Capital with transitional arrangements for ECL provisioning not applied 49 Directly issued qualifying Tier 2 instruments plus related stock surplus 49 Directly issued qualifying Tier 2 Capital) 49 Or Winch: instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries subject to phase out from Tier 2 Capital) 49 Or Winch: instruments issued by subsidiaries subject to phase out from Tier 2 Capital) 49 Or Winch: instruments in the capital instruments 40 Additional Tier 1 instruments 41 Additional Tier 2 Capital) 42 Additional Tier 2 Capital instruments not included in row 5 or 34) issued by subsidiaries and held by 43 Additional Tier 2 Capital instruments not included in row 5 or 34) issued by subsidiaries and held by 44 Agriculture of Winch: instruments in the capital instruments and provisions 45 Agriculture of Capital instruments and provisions 46 Agriculture of Capital instruments of Capital instrume	Reciprocal cross holdings in Additional Tier 1 instruments Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions U 78 78 78 78 78 78 78 78 78		Additional Tier 1 Capital: regulatory adjustments						
Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions 1	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions Other deductions from Tier 1 Capital as determined by OSFI of which: Reverse mortgages Additional Tier 1 due to insufficient Tier 2 to cover deductions Additional Tier 1 capital (AT1) 43 Total regulatory adjustments applied to Additional Tier 1 Capital Additional Tier 1 Capital (AT1) 45 Tier 1 Capital (T1 = CET1 + AT1) 5 Tier 2 Capital: instruments and provisions Directly issued qualifying Tier 2 instruments plus related stock surplus Directly issued qualifying Tier 2 instruments subject to phase out from Tier 2 Capital (3) Tier 2 instruments and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by	37		t	-	10	6	9	5
(amount above 10% threshold) Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions 41 Other deductions from Tier 1 Capital as determined by OSFI 42 Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 43 Total regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 44 Additional Tier 1 Capital (AT1) 45 Tier 1 Capital (AT1) 46 Additional Tier 1 Capital (AT1) 47 Tier 2 Capital (T1 = CET1 + AT1) 48 Directly issued qualifying Tier 2 instruments plus related stock surplus 49 Directly issued capital instruments subject to phase out from Tier 2 Capital) 49 Of Which: Reverse mortgages 40 Tier 2 Capital (T1 = CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by third parties (amount allowed in group Tier 2 Capital) 40 Of Which: Reverse mortgages 41	(amount above 10% threshold) Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions 41 Other deductions from Tier 1 Capital as determined by OSFI 42 Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 43 Total regulatory adjustments applied to Additional Tier 1 Capital 44 Additional Tier 1 Capital (AT1) 45 Tier 1 Capital (T1 = CET1 + AT1) 46 Tier 2 Capital: instruments and provisions 47 Tier 2 Capital: instruments and provisions 48 Directly issued qualifying Tier 2 instruments poly instruments bot included in row 5 or 34) issued by subsidiaries and held by 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by		Reciprocal cross notdings in Additional Tier 1 instruments Non-significant investments in the capital of banking financial and insurance optition not of cligible short positions.		-	-	-	-	-
\$\frac{\text{Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions \text{Other deductions from Tier 1 Capital as determined by OSFI} \\ \text{41} \\ \text{Other deductions from Tier 1 Capital as determined by OSFI} \\ \text{42} \\ \text{Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions} \\ \text{42} \\ \text{Regulatory adjustments applied to Additional Tier 1 Capital} \\ \text{43} \\ \text{Total regulatory adjustments applied to Additional Tier 1 Capital} \\ \text{44} \\ \text{Additional Tier 1 Capital (AT1)} \\ \text{45} \\ \text{Tier 1 Capital (With Transitional arrangements for ECL provisioning not applied} \\ \text{Tier 2 Capital: instruments and provisions} \\ \text{46} \\ \text{Directly issued qualifying Tier 2 instruments plus related stock surplus} \\ \text{47} \\ \text{Directly issued qualifying Tier 2 instruments subject to phase out from Tier 2 Capital (3)} \\ \text{Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by} \\ \text{18} \\ \text{49} \\ \text{9} \\ \text	Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions Other deductions from Tier 1 Capital as determined by OSFI of which: Reverse mortgages 42 Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 78 8 8 8 4 87 44 Additional Tier 1 Capital (AT1) 45 Tier 1 Capital (T1 = CET1 + AT1) 46 Directly issued qualifying Tier 2 instruments plus related stock surplus After 1 Capital instruments and provisions After 2 Capital: instruments subject to phase out from Tier 2 Capital (3) Tier 2 cinstruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by	39	ron-againtean investments in the capital of banking, mandal and insulance entities, het of engible short positions (amount above 10% threshold)		-	-	-	-	-
regulatory consolidation, net of eligible short positions 1	regulatory consolidation, net of eligible short positions 41 Other deductions from Tier 1 Capital as determined by OSFI 41 of which: Reverse mortgages 42 Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions 43 Total regulatory adjustments applied to Additional Tier 1 Capital 44 Additional Tier 1 Capital (AT1) 45 Tier 1 Capital (T1 = CET1 + AT1) 46 Directly issued qualifying Tier 2 instruments plus related stock surplus 46 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) 47 Direct pint of the instruments and provision of the phase out from Tier 2 Capital instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by	40	Significant investments in the capital of banking, financial and insurance entities that are outside the scope of	,,	70	70	70	70	70
41	41a of which: Reverse mortgages - - - - - - - - -		regulatory consolidation, net of eligible short positions	l u	'8	78	78	78	78
Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions - - - - - - - - -	Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions - - - - - - - - -		Other deductions from Tier 1 Capital as determined by OSFI		-	-	-	-	-
Total regulatory adjustments applied to Additional Tier 1 Capital 78 88 84 87 83	43 Total regulatory adjustments applied to Additional Tier 1 Capital 78 88 84 87 44 Additional Tier 1 Capital (AT1) 6,230 5,220 5,124 4,871 5,4 45 Tier 1 Capital (T1 = CET1 + AT1) 67,121 60,684 59,899 52,481 49,9 45a Tier 1 Capital with transitional arrangements for ECL provisioning not applied 66,965 60,534 59,766 52,329 49,6 Tier 2 Capital: instruments and provisions V 8,003 7,296 7,242 8,335 6,7 46 Directly issued qapital instruments subject to phase out from Tier 2 Capital (3) V 8,003 7,296 7,242 8,335 6,7 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) V N.a. N.a				-	-	-	-	-
Additional Tier 1 Capital (AT1) 6,230 5,220 5,124 4,871 5,475	44 Additional Tier 1 Capital (AT1) 6,230 5,220 5,124 4,871 5,4 45 Tier 1 Capital (T1 = CET1 + AT1) 67,121 60,684 59,899 52,481 49,9 45a Tier 1 Capital with transitional arrangements for ECL provisioning not applied 66,965 60,534 59,766 52,329 49,6 Tier 2 Capital: instruments and provisions v 8,003 7,296 7,242 8,335 6,7 46 Directly issued qualifying Tier 2 instruments plus related stock surplus v 8,003 7,296 7,242 8,335 6,7 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) v n.a. n.a. n.a. n.a. n.a. 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by				78	88	84	87	83
Tier 1 Capital (T1 = CET1 + AT1) 67,121 60,684 59,899 52,481 49,966	45 Tier 1 Capital (T1 = CET1 + AT1) 67,121 60,684 59,899 52,481 49,9 45a Tier 1 Capital with transitional arrangements for ECL provisioning not applied 66,965 60,534 59,766 52,329 49,6 Tier 2 Capital: instruments and provisions v 8,003 7,296 7,242 8,335 6,74 46 Directly issued qualifying Tier 2 instruments plus related stock surplus v 8,003 7,296 7,242 8,335 6,74 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) v n.a. n.a. n.a. n.a. n.a. 1.48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by				6,230	5,220	5,124	4,871	5,475
Tier 2 Capital: instruments and provisions 46 Directly issued qualifying Tier 2 instruments plus related stock surplus 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by 49 of which: instruments issued by subsidiaries subject to phase out (3) Tier 2 Capital: instruments and provisions v 8,003 7,296 7,242 8,335 6,747 w n.a. n.a. n.a. n.a. n.a. 141 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by third parties (amount allowed in group Tier 2 Capital) of which: instruments issued by subsidiaries subject to phase out (3) n.a. n.a. n.a. n.a. n.a.	Tier 2 Capital: instruments and provisions 46 Directly issued qualifying Tier 2 instruments plus related stock surplus 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by	45	Tier 1 Capital (T1 = CET1 + AT1)		67,121				
46 Directly issued qualifying Tier 2 instruments plus related stock surplus 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by 49 of which: instruments issued by subsidiaries subject to phase out (3) V 8,003 7,296 7,242 8,335 6,747 W n.a. n.a. n.a. n.a. n.a. n.a. V 8,003 7,296 7,242 8,335 6,747 V n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a	46 Directly issued qualifying Tier 2 instruments plus related stock surplus v 8,003 7,296 7,242 8,335 6,7 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) v n.a. n.a. n.a. n.a. n.a. 1 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by	45a			66,965	60,534	59,766	52,329	49,640
46 Directly issued qualifying Tier 2 instruments plus related stock surplus 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by 49 of which: instruments issued by subsidiaries subject to phase out (3) V 8,003 7,296 7,242 8,335 6,747 W n.a. n.a. n.a. n.a. n.a. n.a. V 8,003 7,296 7,242 8,335 6,747 V n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a	46 Directly issued qualifying Tier 2 instruments plus related stock surplus 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by		Tier 2 Capital: instruments and provisions						
Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by third parties (amount allowed in group Tier 2 Capital) 49 of which: instruments issued by subsidiaries subject to phase out (3) n.a. n.a. n.a. n.a. n.a.	Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by		Directly issued qualifying Tier 2 instruments plus related stock surplus						
third parties (amount allowed in group Tier 2 Capital) 49 of which: instruments issued by subsidiaries subject to phase out (3) n.a. n.a. n.a. n.a	48 installations (and Oct 1 and A1 installations not included in low 5 of 54) issued by substitutions and field by		Directly issued capital instruments subject to phase out from Tier 2 Capital (3) Tier 2 instruments and CET1 and AT1 instruments not included in row 5 or 30 instruments and cET1 and AT1 instruments not included in row 5 or 30 instruments and cetter and hold by	l w	n.a.	n.a.	n.a.	n.a.	141
49 of which: instruments issued by subsidiaries subject to phase out (3)	I found parties (amount allowed in group Tier 2 Capital)	48	third parties (and OET) and AT) instruments not included if 100 5 01 54) issued by substitidates and field by third parties (amount allowed in groun Tier 2 Capital)		-	-	-	-	-
	49 of which: instruments issued by subsidiaries subject to phase out (3) n.a. n.a. n.a. n.a. n.a.		of which: instruments issued by subsidiaries subject to phase out (3)			n.a.			-
50 General allowances x 235 203 248 284 398	50 General allowances x 235 203 248 284 3	50	General allowances	x	235	203	248	284	
51 Tier 2 Capital before regulatory adjustments 8,238 7,499 7,490 8,619 7,286		51	Tier 2 Capital before regulatory adjustments Row numbering, as per OSFI May 2018 advisory, is provided for consistency and comparability in the disclosure of elements of capital and comparability in the disclosure of elements of capital and comparability in the disclosure of elements of capital and comparability in the disclosure of elements of capital and comparability in the disclosure of elements of capital and comparability in the disclosure of elements of capital and capital	<u> </u>			,		7,286

(1) Row numbering, as per OSFI May 2018 advisory, is provided for consistency and comparability in the disclosure of elements of capital among banks and across jurisdictions. Banks are required to maintain the same row numbering per OSFI advisory. Where there is no value in a row, institutions should report n.a. or nil and the row number must not change.

(2) Cross reference to CC2 - Reconciliation of Regulatory Capital to Balance Sheet (page 5).

(3) Q4 2021 includes the capital value of instruments which no longer qualify as regulatory capital under Basel III rules and were phased out at a rate of 10% per year from January 1, 2013 through January 1, 2022.

(4) Represents the transitional arrangements for the capital treatment of ECL provisioning announced by OSFI in March 2020 applying a scaling factor. The scaling factor is set at 50% in fiscal 2021 and 25% in fiscal 2022.



		Cross					
(\$ mi	Ilions except as noted)	reference	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
	Tier 2 Capital: regulatory adjustments				4		
52	Investments in own Tier 2 instruments	У	-	-	1	-	1
53	Reciprocal cross holdings in Tier 2 instruments and Other TLAC-eligible instruments Non-significant investments in the expired of honding financial and insurance antities and Other TLAC eligible		-	-	-	-	-
54	Non-significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, where the						
54	institution does not own more than 10% of the issued common share capital of the entity (amount above 10% threshold)		-	-	-	-	-
54a	Non-significant investments in the other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs, where the						
044	institution does not own more than 10% of the issued common share capital of the entity: amount previously designated						
	for the 5% threshold but that no longer meets the conditions		-	-	-	-	-
55	Significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments	z	50	50	50	50	50
	issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, net of eligible short positions		50	50	50	50	50
56	Other deductions from Tier 2 capital		-	-	-	-	
	Total regulatory adjustments to Tier 2 Capital		50	50	51	50	51
	Tier 2 Capital (T2)		8,188	7,449	7,439	8,569	7,235
	Total Capital (TC = T1 + T2)		75,309	68,133	67,338	61,050	57,201
	Total Capital with transitional arrangements for ECL provisioning not applied		75,309	68,133	67,338	61,050	57,201
	Total Risk-Weighted Assets						
	Common Equity Tier 1 (CET 1) Capital RWA (1)		363,997	351,711	342,287	337,652	325,433
60b			363,997	351,711	342,287	337,652	325,433
60c	Total Capital RWA (1)		363,997	351,711	342,287	337,652	325,433
	Capital Ratios						
61	Common Equity Tier 1 (as percentage of risk-weighted assets)		16.7%	15.8%	16.0%	14.1%	13.7%
61a	CET1 Ratio with transitional arrangements for ECL provisioning not applied		16.7%	15.7%	16.0%	14.1%	13.6%
62	Tier 1 (as percentage of risk-weighted assets)		18.4%	17.3%	17.5%	15.5%	15.4%
62a	Tier 1 Capital Ratio with transitional arrangements for ECL provisioning not applied		18.4%	17.2%	17.5%	15.5%	15.3%
63	Total Capital (as percentage of risk-weighted assets)		20.7%	19.4%	19.7%	18.1%	17.6%
63a	Total Capital Ratio with transitional arrangements for ECL provisioning not applied		20.7%	19.4%	19.7%	18.1%	17.6%
64	Buffer (minimum CET1 plus capital conservation buffer plus G-SIB buffer plus D-SIB buffer requirement, expressed as a percentage of risk-weighted assets)		8.0%	8.0%	8.0%	8.0%	8.0%
65	of which: capital conservation buffer		2.5%	2.5%	2.5%	2.5%	2.5%
66	of which: bank specific countercyclical buffer		0.0%	0.0%	0.0%	0.0%	0.0%
67	of which: G-SIB buffer		n.a.	n.a.	n.a.	n.a.	n.a.
67a	of which: D-SIB buffer		1.0%	1.0%	1.0%	1.0%	1.0%
68	Common Equity Tier 1 available to meet buffers (as a percentage of risk-weighted assets)		16.7%	15.8%	16.0%	14.1%	13.7%
	OSFI target (minimum + capital conservation buffer + D-SIB buffer (if applicable))						
69	Common Equity Tier 1 target ratio		8.0%	8.0%	8.0%	8.0%	8.0%
70	Tier 1 capital target ratio		9.5%	9.5%	9.5%	9.5%	9.5%
71	Total capital target ratio		11.5%	11.5%	11.5%	11.5%	11.5%
	Amounts below the thresholds for deduction (before risk weighting)						
72	Non-significant investments in the capital and Other TLAC-eligible instruments of other financial entities	a1 - b1	1,005	1,108	1,048	1,364	822
73	Significant investments in the common stock of financials	c1	2,206	2,124	2,092	2,209	2,081
74	Mortgage servicing rights (net of related tax liability)	d1	38	35	36	32	29
75	Deferred tax assets arising from temporary differences (net of related tax liability)	e1 - f1	2,056	1,685	1,581	1,661	1,899
	Applicable caps on the inclusion of provisions in Tier 2						
76	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardized approach (prior to		65	109	107	115	231
77	application of cap)		65				
	Cap on inclusion of provisions in Tier 2 under standardized approach Provisions eliqible for inclusion in Tier 2 in respect of exposures subject to internal ratings based approach (prior to		65	109	107	115	231
78	Provisions engine for inclusion in ther 2 in respect of exposures subject to internal ratings based approach (prior to application of cap)		2,063	1,977	1,947	2,039	2,039
79	Cap on inclusion of provisions in Tier 2 under internal ratings-based approach		326	244	274	321	492
.,	Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2013 and 1 Jan 2022)		"-"		'	<u></u>	
80	Current cap on CET1 instruments subject to phase out arrangements		n.a.	n.a.	n.a.	n.a.	_
81	Amounts excluded from CET1 due to cap (excess over cap after redemptions and maturities)		n.a.	n.a.	n.a.	n.a.	-
82	Current cap on AT1 instruments subject to phase out arrangements		n.a.	n.a.	n.a.	n.a.	432
83	Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities)		n.a.	n.a.	n.a.	n.a.	-
84	Current cap on T2 instruments subject to phase out arrangements		n.a.	n.a.	n.a.	n.a.	513
85	Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities)		n.a.	n.a.	n.a.	n.a.	-
(1)	The Bank is subject to capital floor requirements as prescribed in OSFI's CAR Guidelines. Total RWA is increased by a floor adjustment	ent amount which is	s calculated based	on the Standardi	zed methodology	At October 31 20	22 a

⁽¹⁾ The Bank is subject to capital floor requirements as prescribed in OSFI's CAR Guidelines. Total RWA is increased by a floor adjustment amount, which is calculated based on the Standardized methodology. At October 31 2022, a Basel Capital Floor adjustment of \$12,598 million (\$2,544 million at July 31, 2022, \$7,848 at April 30, 2022, \$nil at January 31, 2022, and \$nil at October 31, 2021) was applied to the Bank's RWA.

CC2 - RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET

CC2 - RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET									
		as in Report to	Under regulatory scope of consolidation (1)	Cross Reference		LINE	as in Report to	Under regulatory scope of consolidation (1)	Cross Reference
(\$ millions)	#	Q4 2022	Q4 2022	(2)		#	Q4 2022	Q4 2022	(2)
Assets	\neg				Liabilities and Equity		7		
Cash and Cash Equivalents	1	87,466	87,398		Deposits	40	769,478	769,478	1
Interest Bearing Deposits with Banks	2	5,734	5,728		Other Liabilities				
Securities	3	273,262	264,999		Derivative instruments	41	59,956	59,797	ı
Investments in own shares CET1 (if not already netted off paid-in capital on reported balance sheet)	4		-	р	Acceptances	42	13,235	13,235	ı
Investments in own Additional Tier 1 instruments not derecognized for accounting purposes	5		-	t	Securities sold but not yet purchased	43	40,979	40,979	ı
Investments in own Tier 2 instruments not derecognized for accounting purposes	6		-	У	Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities (3)	44	, ,	28,177	b1
Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities (3)	7		29,182	a1	Securities lent or sold under repurchase agreements	45	103,963	103,963	ı
Significant investments in the common stock of financials exceeding regulatory thresholds (4)	8		-		Securitization and structured entities' liabilities	46	27,068	27,068	ı
Significant investments in the common stock of financials not exceeding regulatory thresholds (4)	9		2,206	c1	Current tax liabilities	47	425	411	ı
Goodwill embedded in significant investments	10		54	е	Deferred tax liabilities (5)	48	102	102	ı
Significant investments in the Additional Tier 1 instruments of banking, financial and insurance entities that are					related to goodwill	49	, ,	247	, g
outside the scope of regulatory consolidation	11		78	u	related to intangibles	50	, ,	384	ı i
Significant investments in the Tier 2 instruments of banking, financial and insurance entities that are outside					related to defined-benefit pension fund net assets	51	, ,	360	. 0
the scope of regulatory consolidation	12		50	z	related to deferred tax assets excluding those arising from temporary differences	52	, ,	4	, k
Securities Borrowed or Purchased Under Resale Agreements	13	113,194	113,194		related to deferred tax assets arising from temporary differences	53	, ,	1,257	f1
Loans					Other	54	44,805	33,499	1
Residential mortgages	14	148,880	148,880		Total other liabilities	55	290,533	279,054	
Consumer instalment and other personal	15	86,103	86,103		Subordinated Debt				
Credit cards	16	9,663	9,663		Subordinated debt	56	8,150	8,150	ı
Business and government	17	309,310	309,018		Directly issued qualifying subordinated debt	57	, ,	8,003	v
Allowance for credit losses	18	(2,617)	(2,617)		Directly issued subordinated debt subject to phase out	58		-	w
Transitional arrangements for capital treatment of ECL provisioning included in CET1	19		(156)	q	Equity		, ,	1	ı
Allowance reflected in Tier 2 regulatory capital	20		(235)	×	Preferred shares and other equity instruments	59	6,308	6,308	ı
Shortfall of provisions to expected loss	21		-	m	Directly issued qualifying Additional Tier 1 instruments	60	, ,	6,308	r
Total net loans	22	551,339	551,047		Directly issued Additional Tier 1 instruments subject to phase out	61	, !		s
Other Assets					Common shares	62	17,744	17,744	a
Derivative instruments	23	48,160	48,156		Contributed surplus	63	317	317	l p
Customers' liability under acceptances	24	13,235	13,235		Retained earnings	64	45,117	45,117	, c
Premises and equipment	25	4,841	4,746		Accumulated other comprehensive income	65	1,552	1,552	d .
Goodwill	26	5,285	5,285	f	of which: Cash flow hedges	66		(5,128)	
Intangible assets	27	2,193	2,193	h	Total Equity	67	71,038	71,038	
Current tax assets	28	1,421	1,421		Total Liabilities and Equity	68	1,139,199	1,127,720	
Deferred tax assets (5)	29	1,175	1,186						
Deferred tax assets excluding those arising from temporary differences	30		11	j					
Deferred tax assets arising from temporary differences	31		3,313						
of which: exceeding regulatory thresholds	32		-						
of which: not exceeding regulatory thresholds	33		3,313	e1					
Other	34	31,894	29,132						

1,246

1,127,720

38

1,139,199

35

36

37

39

Defined-benefit pension fund net assets

of which: exceeding regulatory thresholds of which: not exceeding regulatory thresholds

Mortgage servicing rights

Total Assets

⁽¹⁾ Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$12,969 million assets and \$1,583 million equity) covers the development and marketing of individual life, critical illness and annuity products as well as segregated funds. It also offers group creditor and travel insurance to bank ocustomers in Canada. BMO Reinsurance Limited (\$256 million assets and \$113 million equity) covers the reinsurance of bank of life, health and disability insurance risks. The business reinsured is written by insurers and reinsurence principally in North America and Europe.

⁽²⁾ Cross reference to CC1 - Composition of Regulatory Capital (pages 3 and 4).

⁽³⁾ Includes synthetic holdings of non-significant capital investments in banking, financial and insurance entities.

⁽⁴⁾ Under Basel III, significant investments in financial services entities that are outside the scope of regulatory consolidation are deducted from the Bank's capital using the corresponding deduction approach (e.g. investments in non-common Tier 1 are deducted from the Bank's non-common Tier 1 capital) except that investments in common equity capital of a significant investment which represents less than 10% of the Bank's CET1 are risk-weighted at 250% and are not deducted provided the sum of such instruments, deferred tax assets related to timing differences and mortgage servicing rights are less than 15% of the Bank's CET1. Goodwill embedded in significant investments is separated and is shown in the corresponding line below.

⁽⁵⁾ Deferred tax assets and liabilities are presented on the balance sheet net by legal jurisdiction.



	LINE					
(\$ millions)	#	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
Common Equity Tier 1 Capital						
Opening Balance	1	55,464	54,775	47,610	44,491	43,349
New capital issues	2	354	358	3,428	22	23
Redeemed capital or Treasury Shares	3	(2)	(4)	(15)	4	(33)
Gross dividends and distributions (deduction)	4	(1,017)	(985)	(946)	(917)	(747)
Net Income	5	4,483	1,365	4,756	2,933	2,159
Removal of own credit spread (net of tax)	6	(323)	(461)	(621)	(119)	(10)
Movements in other comprehensive income						
Currency translation differences	7	2,034	(102)	258	709	(195)
Fair value through other comprehensive income securities	8	(199)	(11)	(232)	(88)	(148)
Other (1)	9	411	320	982	228	182
Goodwill and other intangible assets (deduction, net of related tax liability)	10	(339)	88	(57)	537	103
Other, including regulatory adjustments and transitional arrangements						
Deferred tax assets that rely on future profitability (excluding those arising from temporary differences)	11	(4)	(2)	13	(1)	7
Prudential valuation adjustments	12	9	(15)	(11)	(20)	-
Other (2)	13	20	138	(390)	(169)	(199)
Closing Balance	14	60,891	55,464	54,775	47,610	44,491
Other non-core Tier 1 (Additional Tier 1) Capital						
Opening Balance	15	5,220	5,124	4,871	5,475	5,477
New non-core tier 1 (Additional Tier 1) eligible capital issues	16	1,000	500	750	-	-
Redeemed capital	17	-	(400)	(500)	(600)	-
Other, including regulatory adjustments and transitional arrangements (3)	18	10	(4)	3	(4)	(2)
Closing Balance	19	6,230	5,220	5,124	4,871	5,475
Total Tier 1 Capital	20	67,121	60,684	59,899	52,481	49,966
Tier 2 Capital						
Opening Balance	21	7,449	7,439	8,569	7,235	7,377
New Tier 2 eligible capital issues	22	750	-	-	1,587	-
Redeemed capital	23	-	-	(850)	-	-
Amortization adjustments	24	-	-	-	-	-
Other, including regulatory adjustments and transitional arrangements (4)	25	(11)	10	(280)	(253)	(142)
Closing Balance	26	8,188	7,449	7,439	8,569	7,235
Total Regulatory Capital	27	75,309	68,133	67,338	61,050	57,201
(1) Includes: AOCI on pension and other post-employment benefits and on own credit risk on financial liabilities designated at fair value	-					,

(1) Includes: AOCI on pension and other post-employment benefits and on own credit risk on financial liabilities designated at fair value.

(2) Includes: Capital deductions for expected loss in excess of allowances, defined benefit pension assets (net of related deferred tax liability), investment in own shares, changes in contributed surplus, threshold deductions and transitional arrangements for the capital treatment of ECL provisioning announced by OSFI in March 2020.

(3) Includes: Changes in non-qualifying capital instruments.

(4) Includes: Changes in non-qualifying capital instruments and eligible allowances.

CAPITAL RATIOS FOR SIGNIFICANT BANK SUBSIDIARIES	LINE					
	#	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
Bank of Montreal Mortgage Corporation - Basel III (1)						
Common Equity Tier 1 ratio	1	18.5%	18.3%	19.2%	18.2%	22.1%
Tier 1 ratio	2	18.5%	18.3%	19.2%	18.2%	22.1%
Total capital ratio	3	18.5%	18.3%	19.2%	18.2%	22.2%
BMO Harris Bank N.A Basel III (2)						
Tier 1 ratio	4	11.1%	11.5%	11.8%	11.8%	13.5%
Total capital ratio	5	12.2%	12.6%	13.0%	13.1%	14.8%

(1) Q4 2021 capital ratios include the value of instruments which no longer qualify as regulatory capital under Basel III rules and were phased out at a rate of 10% per year from January 1, 2013 through January 1, 2022.

(2) Calculated using U.S. Basel III guidelines currently in effect for U.S. regulatory purposes and based on BMO Harris N.A.'s calendar quarter ends: September 2022, June 2022, March 2022, December 2021 and September 2021.

KM2 - KEY METRICS - TLAC REQUIREMENTS (1) (2)

		Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
(\$ n	illions except as noted)	а	b	С	d	е
1	Total loss-absorbing capacity (TLAC) available	120,663	112,534	105,140	96,889	90,353
1a	Total loss-absorbing capacity (TLAC) available with transitional arrangements for ECL provisioning not applied	120,663	112,534	105,140	96,889	90,353
2	Total RWA at the level of the resolution group	363,997	351,711	342,287	337,652	325,433
3	TLAC ratio: TLAC as a percentage of RWA (row 1 / row 2) (%)	33.1 %	32.0 %	30.7 %	28.7 %	27.8 %
За	TLAC ratio: TLAC as a percentage of RWA (row 1a / row 2) (%) available with transitional arrangements for ECL provisioning not applied	33.1 %	32.0 %	30.7 %	28.7 %	27.8 %
4	Leverage ratio exposure measure at the level of the resolution group	1,189,990	1,144,101	1,111,094	1,115,676	976,690
5	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1 / row 4) (%)	10.1 %	9.8 %	9.5 %	8.7 %	9.3 %
5a	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure with transitional arrangements for ECL provisioning not applied (row 1a / row 4) (%)	10.1 %	9.8 %	9.5 %	8.7 %	9.3 %
6a	Does the subordination exemption in the antepenultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	Yes	Yes	Yes	Yes	Yes
	Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply? external TLAC, divided by funding issued that ranks pari passu with Excluded Liabilities and that would be recognized as external TLAC if no cap	No	No	No	No	No
00	was applied (%)	n.a.	n.a.	n.a.	n.a.	n.a.

⁽¹⁾ BMO Financial Group uses the Single Point of Entry approach whereby the parent bank is the single resolution entity on which the resolution measures are applied. KM2 is reported on a consolidated basis excluding insurance subsidiaries.

⁽²⁾ Lines 1, 3 and 5 incorporate transitional arrangements for the capital treatment of ECL provisioning announced by OSFI in March 2020 applying a scaling factor.

The scaling factor is set at 50% in fiscal 2021 and 25% in fiscal 2022. Lines 1a, 3a and 5a represent TLAC available with transitional arrangements for ECL provisioning not applied.



TLAC1 - TLAC COMPOSITION (1)

	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
(\$ millions except as noted)	а	b	С	d	е
Regulatory capital elements of TLAC and adjustments					
1 Common Equity Tier 1 capital (CET1)	60,891	55,464	54,775	47,610	44,491
2 Additional Tier 1 capital (AT1) before TLAC adjustments	6,230	5,220	5,124	4,871	5,475
3 AT1 ineligible as TLAC as issued out of subsidiaries to third parties	-	-	-	-	-
4 Other adjustments	-	-	-	-	-
5 AT1 instruments eligible under the TLAC framework	6,230	5,220	5,124	4,871	5,475
6 Tier 2 capital (T2) before TLAC adjustments	8,188	7,449	7,439	8,569	7,235
7 Amortized portion of T2 instruments where remaining maturity > 1 year	-	-	-	-	5
8 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties	-	-	-	-	-
9 Other adjustments	-	-	-	-	-
10 T2 instruments eligible under the TLAC framework	8,188	7,449	7,439	8,569	7,240
11 TLAC arising from regulatory capital	75,309	68,133	67,338	61,050	57,206
Non-regulatory capital elements of TLAC					
12 External TLAC instruments issued directly by the Bank and subordinated to excluded liabilities	-	-	-	-	-
13 External TLAC instruments issued directly by the Bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements	45,554	44,568	37,889	35,909	33,238
14 Of which: amount eligible as TLAC after application of the caps	-	-	-	-	-
15 External TLAC instruments issued by funding vehicles prior to January 1, 2022	-	-	-	-	-
16 Eligible ex ante commitments to recapitalize a G-SIB in resolution	-	-	-	-	-
17 TLAC arising from non-regulatory capital instruments before adjustments	45,554	44,568	37,889	35,909	33,238
Non-regulatory capital elements of TLAC: adjustments					
18 TLAC before deductions	120,863	112,701	105,227	96,959	90,444
19 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs)	-	-	-	-	-
20 Deduction of investments in own other TLAC liabilities	(200)	(167)	(87)	(70)	(91)
21 Other adjustments to TLAC	-	-	-	-	-
22 TLAC available after deductions	120,663	112,534	105,140	96,889	90,353
Risk-weighted assets and leverage exposure measure for TLAC purposes					
23 Total risk-weighted assets adjusted as permitted under the TLAC regime	363,997	351,711	342,287	337,652	325,433
24 Leverage exposure measure	1,189,990	1,144,101	1,111,094	1,115,676	976,690
TLAC ratios and buffers					
25 TLAC Ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime)	33.1 %	32.0 %	30.7 %	28.7 %	27.8 %
26 TLAC Leverage Ratio (as a percentage of leverage exposure)	10.1 %	9.8 %	9.5 %	8.7 %	9.3 %
27 CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements (2)	12.2 %	11.3 %	11.5 %	9.5 %	n.a.
lnstitution-specific buffer (capital conservation buffer plus countercyclical buffer plus higher loss absorbency, expressed as a percentage of risk-weighted assets)	3.5 %	3.5 %	3.5 %	3.5 %	3.5 %
29 Of which: capital conservation buffer	2.5 %	2.5 %	2.5 %	2.5 %	2.5 %
30 Of which: bank specific countercyclical buffer	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
31 Of which: D-SIB / G-SIB buffer	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %

⁽¹⁾ BMO Financial Group uses the Single Point of Entry approach whereby the parent bank is the single resolution entity on which the resolution measures are applied. TLAC1 is reported on a consolidated basis excluding insurance subsidiaries.

⁽²⁾ Effective Q1 2022 onward.

							вмо 😂 1	Financial Group		
TL	AC3 - RESOLUTION ENTITY - CREDITOR RANKING AT				Q4 2022					
LE	GAL ENTITY LEVEL (1)	Creditor ranking								
		1	2	3	4	5	6	Sum		
(\$ r	millions)	(most junior)					(most senior)	1 to 6		
1	Description of creditor ranking	Common shares	Preferred shares	Additional Tier 1 Instruments	Subordinated debt	Bail-in debt (2)	Other liabilities (3)			
2	? Total capital and liabilities net of credit risk mitigation	17,744	2,650	3,658	8,714	56,248	-	89,014		
3	Subset of row 2 that are excluded liabilities	-	-	=	150	168	-	318		
4	Total capital and liabilities less excluded liabilities (row 2 minus row 3)	17,744	2,650	3,658	8,564	56,080	-	88,696		
5	Subset of row 4 that are potentially eligible as TLAC	17,744	2,650	3,658	8,564	49,996	-	82,612		
6	Subset of row 5 with 1 year ≤ residual maturity < 2 years	-	-	-	-	17,960	-	17,960		
7	Subset of row 5 with 2 years ≤ residual maturity < 5 years	-	-	-	-	25,506	-	25,506		
8	Subset of row 5 with 5 years ≤ residual maturity < 10 years	-	-	-	5,158	1,072	-	6,230		
9	Subset of row 5 with residual maturity ≥ 10 years, but excluding perpetual securities	-	-	3,000	3,406	5,458	-	11,864		
10	Subset of row 5 that is perpetual securities	17,744	2,650	658	-	-	-	21,052		

⁽¹⁾ Instruments are reported at nominal values.

⁽²⁾ Under the Bail-in Regime, Bail-in Debt, which would ordinarily rank equally to Other Liabilities in liquidation, is subject to conversion, in whole or in part, into common shares under statutory resolution powers whereas Other Liabilities are not subject to such conversion.

⁽³⁾ Completion of this column is not required by OSFI at this time.



LR1 - SUMMARY COMPARISON OF ACCOUNTING ASSETS VS. LEVERAGE RATIO EXPOSURE MEASURE

(\$ m	illions)	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
1	Total consolidated assets as per published financial statements	1,139,199	1,068,338	1,041,565	1,023,172	988,175
2	Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	(11,430)	(11,840)	(11,749)	(12,952)	(13,173)
3	Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference	(9,807)	(6,974)	(7,015)	(6,486)	(7,451)
4	Adjustment for fiduciary assets recognized on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure	-	-	-	-	-
5	Adjustments for derivative financial instruments	(11,227)	1,567	3,681	15,570	10,393
6	Adjustment for securities financing transactions (i.e. repo assets and similar secured lending)	5,742	9,381	10,874	8,022	6,060
7	Adjustment for off-balance sheet items (i.e. credit equivalent amounts of off-balance sheet exposures)	162,968	153,708	145,033	141,557	137,983
8	Other adjustments (1)	(85,455)	(70,079)	(71,295)	(53,207)	(145,297)
9	Leverage Ratio Exposure Measure	1,189,990	1,144,101	1,111,094	1,115,676	976,690

LR2 - LEVERAGE RATIO COMMON DISCLOSURE

		Lever	age ratio frame	ework	
(\$ millions except as noted)	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
On-balance sheet exposures					
1 On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral) (1)	874,024	836,519	803,792	805,333	686,364
2 Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework	-	-	-	-	-
3 (Deductions of receivables assets for cash variation margin provided in derivative transactions)	(9,606)	(6,570)	(5,689)	(4,130)	(3,487)
4 (Asset amounts deducted in determining transitional Tier 1 capital)	(2,870)	(5,179)	(4,907)	(7,076)	(8,203)
5 Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 to 4)	861,548	824,770	793,196	794,127	674,674
Derivative exposures					
6 Replacement cost associated with all derivative transactions (2)	28,697	28,818	35,460	29,546	27,565
7 Add-on amounts for potential future exposure associated with all derivative transactions (3)	23,261	23,600	25,331	26,491	25,165
8 (Exempted central counterparty-leg of client cleared trade exposures)	(5,678)	(4,712)	(5,712)	(1,677)	(2,230)
9 Adjusted effective notional amount of written credit derivatives	43,117	36,745	34,886	28,784	27,415
10 (Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(42,862)	(36,600)	(34,775)	(28,618)	(27,324)
11 Total derivative exposures (sum of lines 6 to 10)	46,535	47,851	55,190	54,526	50,591
Securities financing transaction exposures					
12 Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	116,311	111,014	108,757	120,697	108,800
13 (Netted amounts of cash payables and cash receivables of gross SFT assets)	(7,464)	(6,458)	(5,863)	(7,836)	(6,753)
14 Counterparty credit risk (CCR) exposure for SFTs	10,091	13,216	14,781	12,605	11,395
15 Agent transaction exposures	-	-	-	-	-
16 Total securities financing transaction exposures (sum of lines 12 to 15)	118,938	117,772	117,675	125,466	113,442
Other off-balance sheet exposures					
17 Off-balance sheet exposure at gross notional amount	479,297	464,540	445,368	437,673	429,219
18 (Adjustments for conversion to credit equivalent amounts)	(316,328)	(310,832)	(300,335)	(296,116)	(291,236)
19 Off-balance sheet items (sum of lines 17 and 18)	162,969	153,708	145,033	141,557	137,983
Capital and Total Exposures					
20 Tier 1 capital	67,121	60,684	59,899	52,481	49,966
20a Tier 1 Capital with transitional arrangements for ECL provisioning not applied	66,965	60,534	59,766	52,329	49,640
21 Total Exposures (sum of lines 5, 11, 16 and 19)	1,189,990	1,144,101	1,111,094	1,115,676	976,690
Leverage Ratios					
22 Basel III leverage ratio	5.6%	5.3%	5.4%	4.7%	5.1%
22a Leverage ratio with transitional arrangements for ECL provisioning not applied	5.6%	5.3%	5.4%	4.7%	5.1%

- (1) The original temporary exclusions announced by OSFI in April 2020 were updated in August 2021 to limit the exclusions to central bank reserves effective Q1 2022.
- (2) Represents replacement cost after applying alpha equal to 1.4.
- (3) Represents potential future exposure after applying alpha equal to 1.4.

OV1	- OVERVIEW OF RWA (1)			RWA (2)			Minimum capital requirements
		Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q4 2022
(\$ mil	ions)	a	b	С	d	е	f
1	Credit risk (excluding counterparty credit risk (CCR))	255,404	254,484	240,477	248,112	237,703	20,432
2	Of which standardized approach (SA)	21,667	27,285	25,820	26,561	37,388	1,733
3	Of which internal rating-based (IRB) approach	233,737	227,199	214,657	221,551	200,315	18,699
4	Counterparty credit risk	15,034	17,144	19,344	18,941	18,047	1,203
5	Of which standardized approach for counterparty credit risk (SA-CCR)	7,618	8,428	9,584	9,521	9,703	609
6	Of which internal model method (IMM)	-	-	-	-	-	-
6a	Of which comprehensive approach for credit risk mitigation (for SFTs)	2,869	3,844	4,179	3,989	4,247	230
6b	Of which CVA capital charge	3,633	4,077	4,804	4,378	3,317	291
6c	Of which exposures to QCCP	914	795	777	1,053	780	73
7	Equity positions in banking book under market-based approach	-	-	-	-	-	-
8	Equity investments in funds – look-through approach	2,196	1,989	2,365	1,407	499	176
9	Equity investments in funds – mandate-based approach	2,538	2,420	2,303	2,063	1,828	203
10	Equity investments in funds – fall-back approach	-	-	-	-	188	-
11	Settlement risk	71	3	2	17	-	6
12	Securitization exposures in banking book	9,530	7,136	6,717	4,340	4,570	763
13	Of which securitization internal ratings-based approach (SEC-IRBA)	8,073	5,753	5,544	3,333	3,394	646
14	Of which securitization external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA)	136	144	145	136	140	11
15	Of which securitization standardized approach (SEC-SA)	1,321	1,239	1,028	871	1,036	106
16	Market risk	13,522	14,551	12,736	12,859	12,066	1,081
17	Of which standardized approach (SA) (3)	681	679	531	369	345	54
18	Of which internal model approaches (IMM)	12,841	13,872	12,205	12,490	11,721	1,027
19	Operational risk	42,353	41,827	41,221	40,157	40,509	3,388
20	Of which Basic Indicator Approach	-	-	-	-	-	-
21	Of which Standardized Approach	42,353	41,827	41,221	40,157	40,509	3,388
22	Of which Advanced Measurement Approach						
23	Amounts below the thresholds for deduction (subject to 250% risk weight)	10,751	9,613	9,274	9,756	10,023	860
24	Floor adjustment (4)	12,598	2,544	7,848	-	-	1,008
25	Total	363,997	351,711	342,287	337,652	325,433	29,120

- (1) RWA were \$364.0 billion as at October 31, 2022, an increase from \$351.7 billion as at July 31, 2022. RWA were higher, primarily due to the impact of foreign exchange movements. Increased asset size, driven by lending growth, was largely offset by risk transfer transactions.
- (2) The 1.06 AIRB scaling factor is applied to the RWA amounts as applicable.
- (3) Standardized Approach market risk RWA reflects specific risk on securitization positions in the trading book.
- (4) The Bank is subject to capital floor requirements as prescribed in OSFI's CAR Guidelines. Total RWA is increased by a floor adjustment amount, which is calculated based on the Standardized methodology.

RISK-WEIGHTED ASSETS BY OPERATING GROUPS						
(\$ millions)	LINE #	Q4 2022	Q3 2022	Q2 2022	Q1 2022	Q4 2021
Canadian Personal and Commercial Banking	1	110,994	110,496	105,059	105,089	101,418
U.S. Personal and Commercial Banking	2	99,701	95,168	92,188	95,790	93,717
BMO Wealth Management	3	27,021	26,475	26,058	24,994	24,354
BMO Capital Markets	4	98,380	102,632	98,215	97,964	91,445
Corporate Services, including Technology and Operations	5	27,901	16,940	20,767	13,815	14,499
Total Risk-Weighted Assets	6	363,997	351,711	342,287	337,652	325,433

LI1 - DIFFERENCES BETWEEN ACCOUNTING AND REGULATORY SCOPES OF CONSOLIDATION AND MAPPING OF FINANCIAL

STATEMENTS WITH REGULATORY RISK CATEGORIES					Q4 2022			
					C	arrying values of item	is:	
	LINE	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation (1)	Subject to credit risk framework	Subject to counterparty credit risk framework	Subject to the securitization framework	Subject to the market risk framework	Not subject to capital requirements or subject to deduction from capital
(\$ millions)	#	а	b	С	d	е	f	g
Assets								
Cash and Cash Equivalents	1	87,466	87,398	87,398	-	=	-	=
Interest Bearing Deposits with Banks	2	5,734	5,728	5,725	-	-	3	-
Securities	3	273,262	264,999	155,905	-	1,575	106,122	1,397
Securities Borrowed or Purchased Under Resale Agreements	4	113,194	113,194	-	113,194	-	-	-
Loans								
Residential mortgages	5	148,880	148,880	148,880	-	=	-	=
Consumer instalment and other personal	6	86,103	86,103	82,963	-	57	-	3,083
Credit cards	7	9,663	9,663	2,302	-	1,890	-	5,471
Business and government	8	309,310	309,018	277,324	2,889	28,645	3,426	-
Allowance for credit losses	9	(2,617)	(2,617)	(21)	-	(1)	-	(2,595)
Other Assets								
Derivative instruments	10	48,160	48,156	-	48,156	-	45,537	-
Customers' liability under acceptances	11	13,235	13,235	13,235	-	-	-	-
Premises and equipment	12	4,841	4,746	4,746	-	-	-	-
Goodwill	13	5,285	5,285	-	-	-	-	5,285
Intangible assets	14	2,193	2,193	-	-	-	-	2,193
Current tax assets	15	1,421	1,421	1,421	-	-	-	-
Deferred tax assets	16	1,175	1,186	1,175	-	-	-	11
Other	17	31,894	29,132	10,307	14,583	-	2,996	1,246
Total assets	18	1,139,199	1,127,720	791,360	178,822	32,166	158,084	16,091
Liabilities								
Deposits	19	769,478	769,478	-	-	-	26,987	742,491
Other Liabilities								
Derivative instruments	20	59,956	59,797	-	59,797	=	46,818	-
Acceptances	21	13,235	13,235	-	-	=	-	13,235
Securities sold but not yet purchased	22	40,979	40,979	-	-	=	40,979	-
Securities lent or sold under repurchase agreements	23	103,963	103,963	-	103,963	-	-	-
Securitization and structured entities' liabilities	24	27,068	27,068	-	-	-	-	27,068
Current tax liabilities	25	425	411	-	-	-	-	411
Deferred tax liabilities	26	102	102	-	-	=	-	102
Other	27	44,805	33,499	-	-	-	-	33,499
Subordinated Debt	28	8,150	8,150		-		-	8,150
Total liabilities	29	1,068,161	1,056,682		163,760	-	114,784	824,956

⁽¹⁾ Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$12,969 million assets and \$1,583 million equity) covers the development and marketing of individual life, critical illness and annuity products as well as segregated funds. It also offers group creditor and travel insurance to bank customers in Canada. BMO Reinsurance Limited (\$256 million assets and \$113 million equity) covers the reinsurance of life, health and disability insurance risks. The business reinsured is written by insurers and reinsurers principally in North America and Europe.



04 2022

LI2 - MAIN SOURCES OF DIFFERENCES BETWEEN REGULATORY EXPOSURE AMOUNTS AND CARRYING

VA	LUES IN FINANCIAL STATEMENTS	Q4 2022					
				Items s	ubject to:		
			Credit risk	Counterparty credit risk	Securitization	Market risk	
		Total	framework	framework	framework	framework	
(\$ n	nillions)	а	b	С	d	е	
1	Asset carrying value amount under scope of regulatory consolidation (as per template LI1) (1)	1,111,629	791,360	178,822	32,166	158,084	
2	Liabilities carrying value amount under regulatory scope of consolidation (as per template LI1) (1)	231,726	-	163,760	-	114,784	
3	Total net amount under regulatory scope of consolidation	879,903	791,360	15,062	32,166	43,300	
4	Off-balance sheet amounts	299,316	216,827	48,174	34,315	-	
5	Differences due to different netting rules and other adjustments for derivatives, other than those already included in row 2	27,432	882	26,550	-	-	
6	Differences due to consideration of provisions	408	408	-	-	-	
7	Exposures related to liability repo-style transactions	207,927	-	207,927	-	-	
8	Potential future exposure on derivatives	25,580	-	25,580	-	-	
9	Differences due to consideration of CRM	(240,378)	-	(237,020)	(3,358)	-	
10	Exposure amounts considered for regulatory purposes (2)	1,200,188	1,009,477	86,273	63,123	43,300	

- (1) Carrying value under scope of regulatory consolidation (column b from LI1) less amounts not subject to capital requirements or subject to deduction from capital (column g from LI1).
- (2) Exposure amounts considered for regulatory purposes represent the exposure at default amounts post-CRM and post-CCF, with the exception of the Market Risk framework that is reported at accounting carrying value.

Explanations of differences between accounting and regulatory exposure amounts

The table above illustrates the main sources of differences between the financial statements' carrying value amounts and the exposure at default post-CRM and post-CCF used for regulatory purposes.

Off-balance sheet amounts include credit exposures on committed undrawn amounts of loans and other off-balance sheet arrangements, certain repo-style transactions, off-balance sheet securitization exposures, and other off-balance sheet items.

Differences due to different netting rules and other adjustments for derivatives under the credit risk framework relate to the grossing up of deferred tax assets for regulatory exposure amount.

Under the counterparty credit risk framework, the difference relates to the grossing up of derivatives for differences in netting rules allowed under IFRS and SA-CCR, inclusion of 1.4 alpha in replacement cost, and also the application of financial collateral in the calculation of regulatory exposure amount.

Differences due to consideration of provisions relates to the grossing up of AIRB exposures for the amount related to partial write-offs.

Exposures related to liability repo-style transactions relate to the grossing up of liability repo-style transactions.

Potential future exposure on derivatives consists of the add-on factors for the expected volatility of the price, rate or index underlying derivative instruments, after applying alpha equal to 1.4.

Differences due to consideration of CRM consist of the application of credit risk mitigation techniques to arrive at the net exposure at default in accordance with OSFI's CAR Guideline, Chapter 5, Credit Risk Mitigation.

CR1 - CREDIT QUALITY OF ASSETS (1) (2)		Q4 2022							
	Gross carry	ring values of			ng provisions for credit A exposures	Of which: ECL accounting provisions			
LIN	Defaulted exposures (3) (4)	Non-defaulted exposures	Allowances / impairments (5)	Allocated in regulatory category of Specific	Allocated in regulatory category of General	for credit losses on IRB exposures	Net values (a + b - c)		
(\$ millions) #	а	b	С	d	е	f	g		
Loans 1	2,035	522,669	2,267	21	30	2,216	522,437		
Debt securities 2	-	148,638	3	-	-	3	148,635		
Off-balance sheet exposures 3	292	204,666	356	6	9	341	204,602		
Total 4	2,327	875,973	2,626	27	39	2,560	875,674		

CR1 - CREDIT QUALITY OF ASSETS (1) (2)		Q3 2022					
	Gross ca	rying values of		Of which: ECL accounting provisions for credit losses on SA exposures		Of which: ECL accounting provisions	
L	Defaulted exposure:	Non-defaulted exposures	Allowances / impairments (5)	Allocated in regulatory category of Specific	Allocated in regulatory category of General	for credit losses on IRB exposures	Net values (a + b - c)
(\$ millions)	e a	b	С	d	е	f	g
Loans	1,99	6 503,977	2,158	22	79	2,057	503,815
Debt securities	!	- 139,329	6	-	-	6	139,323
Off-balance sheet exposures	40	0 203,723	354	6	12	336	203,769
Total	2,39	6 847,029	2,518	28	91	2,399	846,907

CR1 - CREDIT QUALITY OF ASSETS (1) (2)		Q2 2022							
		Gross carry	ing values of		Of which: ECL accounting provisions for credit losses on SA exposures		Of which: ECL accounting provisions		
	LINE	Defaulted exposures (3) (4)	Non-defaulted exposures	Allowances / impairments (5)	Allocated in regulatory category of Specific	Allocated in regulatory category of General		Net values (a + b - c)	
(\$ millions)	#	а	b	С	d	е	f	g	
Loans	1	2,171	484,098	2,140	26	72	2,042	484,129	
Debt securities	2	-	139,072	3	-	-	3	139,069	
Off-balance sheet exposures	3	443	191,669	372	7	11	354	191,740	
Total	4	2,614	814,839	2,515	33	83	2,399	814,938	

CR1 - CREDIT QUALITY OF ASSETS (1) (2)								
		Gross carry	ing values of		Of which: ECL accounting provisions for credit losses on SA exposures		Of which: ECL accounting provisions	
	LINE	Defaulted exposures (3) (4)	Non-defaulted exposures	Allowances / impairments (5)	Allocated in regulatory category of Specific	Allocated in regulatory category of General	for credit losses on IRB exposures	Net values (a + b - c)
(\$ millions)	#	а	b	С	d	е	f	g
Loans	1	2,285	477,776	2,219	23	59	2,137	477,842
Debt securities	2	-	139,725	3	-	-	3	139,722
Off-balance sheet exposures	3	508	196,058	371	7	10	354	196,195
Total	4	2,793	813,559	2,593	30	69	2,494	813,759

CR1 - CREDIT QUALITY OF ASSETS (1) (2)		Q4 2021						
	Gross carry	ring values of			ing provisions for credit A exposures	Of which: ECL accounting provisions		
LIN	Defaulted exposures E (3) (4)	Non-defaulted exposures	Allowances / impairments (5)	Allocated in regulatory category of Specific		for credit losses on IRB exposures	Net values (a + b - c)	
(\$ millions) #	а	b	С	d	е	f	g	
Loans 1	2,204	453,167	2,332	41	106	2,185	453,039	
Debt securities 2	-	111,686	3	-	-	3	111,683	
Off-balance sheet exposures 3	682	191,755	382	7	36	339	192,055	
Total 4	2,886	756,608	2,717	48	142	2,527	756,777	

- (1) Excludes positions subject to Counterparty Credit Risk and Securitization regulatory frameworks.
- (2) The carrying value of our renegotiated loans was \$573 million as at October 31, 2022 (\$574 million as at July 31, 2022, \$586 million as at April 30, 2022, \$618 million as at January 31, 2022, and \$659 million as at October 31, 2021). Renegotiated loans of \$305 million were classified as performing as at October 31, 2022 (\$331 million as at July 31, 2022, \$321 million as at April 30, 2022, \$293 million as at January 31, 2022, and \$278 million as at October 31, 2021).
- (3) Exposures are considered to be in default when they are 90 days past due with the following exceptions: (i) credit card loans which are immediately written off when principal or interest payments are 180 days past due; and (ii) residential mortgages guaranteed by the Government of Canada that are less than one year past due.
- (4) There were no defaulted debt securities.
- (5) The approach for establishing and maintaining allowance for credit losses is based on IFRS requirements. Under capital reporting, general allowance refers to allowances on performing loans (Stage 1 and Stage 2), and specific allowance refers to allowances on impaired loans (Stage 3).

		BMO 😩 Financial Group
CR	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)	Q4 2022
(\$ m	illions)	а
1	Defaulted loans and debt securities at end of the previous financial reporting period	1,996
2	Loans and debt securities that have defaulted since the last reporting period	481
3	Returned to non-defaulted status	(222)
4	Amounts written off	(119)
5	Other charges	(101)
6	Defaulted loans and debt securities at end of the reporting period	2,035

CR	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)	Q3 2022		
(\$ m	illions)	а		
1	Defaulted loans and debt securities at end of the previous financial reporting period	2,171		
2	Loans and debt securities that have defaulted since the last reporting period	327		
3	Returned to non-defaulted status	(155)		
4	Amounts written off	(93)		
5	Other charges	(254)		
6	Defaulted loans and debt securities at end of the reporting period	1,996		

CR	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)	Q2 2022		
(\$ m	illions)	а		
1	Defaulted loans and debt securities at end of the previous financial reporting period	2,285		
2	Loans and debt securities that have defaulted since the last reporting period	325		
3	Returned to non-defaulted status	(133)		
4	Amounts written off	(74)		
5	Other charges	(232)		
6	Defaulted loans and debt securities at end of the reporting period	2,171		

	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)	Q1 2022
(\$ m	illions)	a a
1	Defaulted loans and debt securities at end of the previous financial reporting period	2,204
2	Loans and debt securities that have defaulted since the last reporting period	452
3	Returned to non-defaulted status	(136)
4	Amounts written off	(79)
5	Other charges	(156)
6	Defaulted loans and debt securities at end of the reporting period	2,285

CR	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)	Q4 2021
(\$ m	illions)	а
1	Defaulted loans and debt securities at end of the previous financial reporting period	2,475
2	Loans and debt securities that have defaulted since the last reporting period	281
3	Returned to non-defaulted status	(153)
4	Amounts written off	(105)
5	Other charges	(294)
6	Defaulted loans and debt securities at end of the reporting period	2,204

- (1) There were no defaulted debt securities.
- (2) Defaulted balances exclude off-balance sheet exposures.



		Q4 2022							
CR3 - CREDIT RISK MITIGATION TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)		Unsecured exposures: carrying amount	Exposures to be secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives			
(\$ mi	illions)	а	b1	b	d	f			
1	Loans	476,219	46,218	-	46,142	-			
2	Debt securities	148,635	-	-	-	-			
3	Total	624,854	46,218	ı	46,142	-			
4	Of which: defaulted	1,357	173	1	115	-			

		Q3 2022							
CR3 - CREDIT RISK MITIGATION TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)		Unsecured exposures: carrying amount	Exposures to be secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives			
(\$ m	illions)	а	b1	b	d	f			
1	Loans	453,450	50,365	-	45,692	-			
2	Debt securities	139,323	-	-	-	-			
3	Total	592,773	50,365	-	45,692	-			
4	Of which: defaulted	1,419	131	-	111	-			

		Q2 2022							
	3 - CREDIT RISK MITIGATION CHNIQUES - OVERVIEW (1) (2) (3) (4) (5)	Unsecured exposures: carrying amount	Exposures to be secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives			
(\$ n	nillions)	а	b1	b	d	f			
1	Loans	439,143	44,986	-	44,775	-			
2	Debt securities	139,069	-	-	-	-			
3	Total	578,212	44,986	•	44,775	-			
4	Of which: defaulted	1,507	198	-	120	-			

	Q1 2022						
CR3 - CREDIT RISK MITIGATION TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)	Unsecured exposures: carrying amount	Exposures to be secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives		
(\$ millions)	а	b1	b	d	f		
1 Loans	427,094	50,748	-	46,114	-		
2 Debt securities	139,722	-	-	-	-		
3 Total	566,816	50,748		46,114	-		
4 Of which: defaulted	1,637	208	-	129	-		

		Q4 2021							
	3 - CREDIT RISK MITIGATION CHNIQUES - OVERVIEW (1) (2) (3) (4) (5)			Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives			
(\$ n	nillions)	а	b1	b	d	f			
1	Loans	401,066	51,973	-	47,669	-			
2	Debt securities	111,683	-	-	-	-			
3	Total	512,749	51,973	-	47,669	-			
4	Of which: defaulted	1,538	215	-	140	-			

- (1) Excludes positions subject to Counterparty Credit Risk and Securitization regulatory frameworks.
- (2) There were no defaulted debt securities.
- (3) Secured exposures include exposures where credit risk mitigation techniques are used to reduce capital requirements in accordance with OSFI's CAR Guideline, Chapter 5, Credit Risk Mitigation. Where collateral is reflected in the risk parameters (PDs and LGDs) for AIRB exposures and risk weights for exposures under Standardized Approach, the carrying amount is reported as an unsecured exposure.
- (4) Loans and Debt securities balances are net of allowance for credit losses on performing loans and impaired loans (excluding those related to off-balance sheet instruments and undrawn commitments).
- (5) Defaulted balances are net of allowance for credit losses on impaired loans, excluding off-balance sheet instruments and undrawn commitments.

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK

MΙΤ	TIGATION (CRM) EFFECTS (1) (2)			Q4 2	2022		
(\$ m	illions except as noted)	Exposures before	re CCF and CRM	Exposures pos	t CCF and CRM	RWA and R	WA density
		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density
	Asset classes	а	b	С	d	е	f
1	Sovereigns and their central banks	-	-	-	-	-	-
2	Non-central government public sector entities	2	9	2	-	-	20.00%
3	Multilateral development banks	-	-	-	-	-	-
4	Banks	-	24	-	13	3	20.00%
5	Securities firms	24	718	24	19	9	20.00%
6	Corporates	1,389	927	1,389	14	1,400	99.73%
7	Regulatory retail portfolios	5,903	2,784	5,903	303	4,448	71.69%
8	Secured by residential property	466	44	466	29	200	40.46%
9	Secured by commercial real estate	5	-	5	-	5	100.00%
10	Equity	2,414	651	2,414	325	2,094	76.44%
11	Defaulted exposures	54	4	54	3	70	122.87%
12	Higher-risk categories (3)	92	41	92	18	165	150.00%
13	Other assets	11,550	-	11,550	-	13,273	114.92%
14	Total	21,899	5,202	21,899	724	21,667	95.78%

MIT	IGATION (CRM) EFFECTS (1) (2)	Q3 2022							
(\$ mi	illions except as noted)	Exposures before CCF and CRM		Exposures pos	t CCF and CRM	RWA and RWA density			
		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density		
	Asset classes	а	b	С	d	е	f		
1	Sovereigns and their central banks	-	-	-	-	-	-		
2	Non-central government public sector entities	1	2	1	-	-	20.00%		
3	Multilateral development banks	-	-	-	-	-	-		
4	Banks	-	37	-	19	4	20.00%		
5	Securities firms	-	698	-	18	4	20.00%		
6	Corporates	7,144	2,712	7,144	186	7,247	98.88%		
7	Regulatory retail portfolios	5,703	3,114	5,703	355	4,296	70.90%		
8	Secured by residential property	469	54	469	33	207	41.03%		
9	Secured by commercial real estate	5	-	5	-	5	100.00%		
10	Equity	2,257	608	2,257	304	1,951	76.19%		
11	Defaulted exposures	80	4	80	-	99	129.28%		
12	Higher-risk categories (3)	89	132	89	63	230	150.00%		
13	Other assets	11,197	-	11,197	-	13,242	118.26%		
14	Total	26,945	7,361	26,945	978	27,285	97.71%		

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Exposure amounts are net of Stage 3 allowance for credit losses.

⁽³⁾ Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

CR	CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK							
MI	FIGATION (CRM) EFFECTS (1) (2)			Q2 2	2022			
(\$ r	nillions except as noted)	Exposures befo	re CCF and CRM	Exposures pos	t CCF and CRM	RWA and R	WA density	
		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density	
	Asset classes	a	b	С	d	е	f	
1 2 3	Sovereigns and their central banks Non-central government public sector entities Multilateral development banks	1	4	- 1	- -	- -	20.00%	
4 5	Banks Securities firms	1 16	35 645	1 16	19 10	4 5	20.00% 20.00%	
6 7 8	Corporates Regulatory retail portfolios Secured by residential property	6,804 5,747 508	2,800 4,038 75	6,804 5,747 507	187 382 36	6,902 4,363 224	98.73% 71.17% 41.25%	
10	Secured by commercial real estate Equity	5 2,093	546	2,094	- 272	1,867	100.00% 78.91%	
112	Defaulted exposures Higher-risk categories (3) Other assets	76 99 9,722	15 106	74 99 9,722	51	93 225 12,131	128.04% 150.00% 124.78%	
14	Total	25,072	8,264	25,071	957	25,820	99.20%	

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK								
MITIGATION (CRM) EFFECTS (1) (2)			Q1 :	2022				
(\$ millions except as noted)	Exposures before CCF and CRM		Exposures post CCF and CRM		RWA and RWA density			
	On-balance sheet amount amount		On-balance sheet amount	Off-balance sheet amount	RWA	RWA density		
Asset classes	а	b	С	d	е	f		
1 Sovereigns and their central banks 2 Non-central government public sector entities 3 Multilateral development banks 4 Banks 5 Securities firms 6 Corporates 7 Regulatory retail portfolios 8 Secured by residential property 9 Secured by commercial real estate 10 Equity 11 Defaulted exposures 12 Higher-risk categories (3) 13 Other assets	7,541 5,382 553 9 1,963 97 78 10,406	34 654 3,728 3,753 92 2 498 16 115	7,542 5,383 552 9 1,963 95 79	- 19 10 504 339 36 - 249 - 54	- - 4 2 7,928 4,056 244 9 1,711 123 199	20.00% 20.00% 20.00% 98.55% 70.92% 41.42% 100.00% 77.34% 129.01% 150.00% 118.06%		
14 Total	26,031	8,897	26,031	1,211	26,561	97.51%		

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AN	R4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK								
MITIGATION (CRM) EFFECTS (1) (2)			Q4 2	2021					
(\$ millions except as noted)	Exposures before CCF and CRM		Exposures post CCF and CRM		RWA and RWA density				
	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density			
Asset classes	а	b	С	d	е	f			
1 Sovereigns and their central banks 2 Non-central government public sector entities 3 Multilateral development banks 4 Banks 5 Securities firms 6 Corporates 7 Regulatory retail portfolios 8 Secured by residential property 9 Secured by commercial real estate 10 Equity 11 Defaulted exposures 12 Higher-risk categories (3) 13 Other assets	232 - 8 10 13,757 5,472 574 270 1,612 255 164 10,978	436 676 13,175 6,110 101 34 432 36 241	232 - 8 10 13,757 5,472 574 270 1,612 255 164 10,978	2 260 20 4,529 327 38 20 216 5	- 69 - 54 6 17,816 4,121 255 290 1,451 360 402 12,564	29.66% 20.00% 20.00% 97.43% 71.05% 41.67% 100.00% 79.38% 138.84% 150.00% 114.44%			
14 Total	33,332	21,249	33,332	5,521	37,388	96.23%			

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Exposure amounts are net of Stage 3 allowance for credit losses.

⁽³⁾ Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

(\$ r	nillions)			- () () (-)		Q	4 2022				
						Risk Weight					Total credit exposures amount (post-CCF
		0%	10%	20%	35%	50%	75%	100%	150%	Others	and post-CRM)
	Asset classes	a	b	С	d	е	f	g	h	i	j
1	Sovereigns and their central banks	-	-	-	-	-	_	-	-	-	-
2	Non-central government public sector entities	-	-	2	-	-	-	-	-	-	2
3	Multilateral development banks	-	-	-	-	-	-	-	-	-	-
4	Banks	-	-	13	-	-	-	-	-	-	13
5	Securities firms	-	-	43	-	-	-	-	-	-	43
6	Corporates	1	-	-	-	5	-	1,397	-	-	1,403
7	Regulatory retail portfolios	433	-	-	-	-	5,296	477	=	-	6,206
8	Secured by residential property	-	-	-	427	-	68	-	-	-	495
9	Secured by commercial real estate	-	-	-	-	-	-	5	-	-	5
10	Equity	492	-	340	-	-	-	1,907	-	-	2,739
11	Defaulted exposures	1	-	-	-	-	-	29	27	-	57
12	Higher-risk categories (4)	-	-	-	-	-	-	-	110	-	110
13	Other assets	1,462	-	2,253	-	-	-	7,401	-	434	11,550
14	Total	2,389	-	2,651	427	5	5,364	11,216	137	434	22,623

CR5 - STANDARDIZED APPROACH - EXPOSURES B	Y ASSET CLASSES	AND RISK WEIG	HTS (1) (2) (3)							
(\$ millions)					Q	3 2022				
					Risk Weight					Total credit exposures amount (post-CCF
	0%	10%	20%	35%	50%	75%	100%	150%	Others	and post-CRM)
Asset classes	a	b	С	d	е	f	g	h	i	j
1 Sovereigns and their central banks	-	-	-	-	-	-	-	-	-	-
2 Non-central government public sector entities	-	-	1	-	-	-	-	-	-	1
3 Multilateral development banks	-	-	-	-	-	-	-	-	-	-
4 Banks	-	-	19	-	-	-	-	-	-	19
5 Securities firms	-	-	18	-	-	-	-	-	-	18
6 Corporates	2	-	31	-	112	-	7,185	-	-	7,330
7 Regulatory retail portfolios	448	-	-	-	-	5,258	352	-	-	6,058
8 Secured by residential property	-	-	-	427	-	75	-	-	-	502
9 Secured by commercial real estate	-	-	-	-	-	-	5	-	-	5
10 Equity	463	-	322	-	-	-	1,776	-	-	2,561
11 Defaulted exposures	1	-	-	-	-	-	30	49	-	80
12 Higher-risk categories (4)	-	-	-	-	-	-	-	152	-	152
13 Other assets	1,484	-	1,671	-	-	-	7,619	-	423	11,197
14 Total	2,398	-	2,062	427	112	5,333	16,967	201	423	27,923

- (1) Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.
- (2) Exposure amounts are net of Stage 3 allowance for credit losses.
- (3) Credit assessments by external credit rating agencies, including S&P, Moody's and DBRS, are used to determine standardized risk weights based on guidelines issued by OSFI.
- (4) Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

CR5 - STANDARDIZED APPROACH - EXPOSURES BY ASSET CLASSES AND RISK WEIGHTS (1) (2) (3)

(\$ millions)					Q	2 2022				
					Risk Weight					Total credit exposures amount (post-CCF
	0%	10%	20%	35%	50%	75%	100%	150%	Others	and post-CRM)
Asset classes	а	b	С	d	е	f	g	h	i	j
1 Sovereigns and their central banks 2 Non-central government public sector entities 3 Multilateral development banks 4 Banks 5 Securities firms 6 Corporates 7 Regulatory retail portfolios 8 Secured by residential property 9 Secured by commercial real estate	- - - 4 472	-	1 20 26 36	458	112	5,181 85	6,839 476		- - - - - - -	1 20 26 6,991 6,129 543
10 Equity 11 Defaulted exposures	464 -	-	176	-	-	-	1,726 30	- 44	-	2,366 74
12 Higher-risk categories (4) 13 Other assets	- 1,421	-	- 1,129	-	-	-	6,760	150 -	412	150 9,722
14 Total	2,361	-	1,388	458	112	5,266	15,837	194	412	26,028

CR5 - STANDARDIZED APPROACH - EXPOSURES B	Y ASSET CLASS	ES AND RISK W	VEIGHTS (1) (2) (3	3)						
(\$ millions)					Q [,]	1 2022				
					Risk Weight					Total credit exposures amount (post-CCF
	0%	10%	20%	35%	50%	75%	100%	150%	Others	and post-CRM)
Asset classes	а	b	С	d	е	f	g	h	i	j
1 Sovereigns and their central banks 2 Non-central government public sector entities 3 Multilateral development banks 4 Banks 5 Securities firms 6 Corporates 7 Regulatory retail portfolios 8 Secured by residential property 9 Secured by commercial real estate 10 Equity 11 Defaulted exposures 12 Higher-isk categories (4) 13 Other assets	- - - 11 462 - - 459 - 1,407	- - - - - - - - - -	20 10 61 - - 174 - 1,703	- - - - - 494 - - -	- - - 113 - - - - -	- - - - 4,808 94 - - - -	7,861 452 9 1,579 37	- - - - - - - 58 133	- - - - - - - - - - - - - - - - - - -	- 1 20 10 8,046 5,722 588 9 2,212 95 133 10,406
14 Total	2,339	-	1,969	494	113	4,902	16,830	191	404	27,242

CR5 - STANDARDIZED APPROACH - EXPOSURES E	Y ASSET CLASSI	ES AND RISK V	VEIGHTS (1) (2) (3	3)						
(\$ millions)					Q	4 2021				
					Risk Weight					Total credit exposures amount (post-CCF
	0%	10%	20%	35%	50%	75%	100%	150%	Others	and post-CRM)
Asset classes	а	b	С	d	е	f	g	h	i	j
1 Sovereigns and their central banks 2 Non-central government public sector entities 3 Multilateral development banks 4 Banks 5 Securities firms 6 Corporates 7 Regulatory retail portfolios 8 Secured by residential property 9 Secured by commercial real estate 10 Equity 11 Defaulted exposures 12 Higher-risk categories (4) 13 Other assets	201 444 - 447 - 1,525	- - - - - - - - - - - - - - - - - - -	159 268 30 246 - - 15	- - - - 510 - - -	75 - 145 - - - - -	4,940 102 - - - - -	- - - 17,694 415 - 290 1,366 44 - 7,278	- - - - - - 216 268	- - - - - - - - - - - - - - - - - - -	234 268 30 18,286 5,799 612 290 1,828 260 268 10,978
14 Total	2,617	-	2,499	510	220	5,042	27,087	484	394	

- (1) Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

 (2) Exposure amounts are net of Stage 3 allowance for credit losses.
- (3) Credit assessments by external credit rating agencies, including S&P, Moody's and DBRS, are used to determine standardized risk weights based on guidelines issued by OSFI.
- (4) Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).



March Marc	CR6 - IRB - CREDIT RISK EXPOSU	IRE BY PORTFOLIO AND I	PD RANGE - RET	AIL (1) (2) (3)							Q4 2022						
Second Content	(\$ millions except as noted)								EAD.								
Company Comp			Investors		LINE	gross	exposures		CRM and				maturity	RWA		El	Provisions
Complement of the Part of the of th	Risk Profile	BMO Rating PD Scale (%)						· · /			f			i	j		I
Complement of the Part of the of th	Canadian insured residential																
Company Comp	Exceptionally low to Very low				1	30,448	-	-	40,939	0.01 %	128,045	30.38 %		344	0.84 %	1	
See 1.05 Sec. 42.75	Very low to Low				2	-	-	-	-	-	-	-		-	-	-	
Indexts	Low					7 405			- 687	0.61 %	13 954	40 04 %		118	17 17 %	1	
Section 1000 to +100.00 7	Medium				5	2,060	-	-	1		5,352			1			
Part	Medium to High						-	-	-	-		-		-	-	-	
Maching Mach)						-	100 00 %		30.63 %		_	92 54 %		
Companies of the residential	Sub-total	100.00 (Belauit)			-		-	-	41.627					463		2	8
way four to flow 0 15 to -0.25	Canadian uninsured residential					,-			,-		,-						
	Exceptionally low to Very low																
	Very low to Low						2,598	23.74 %		0.22 %	61,430	19.09 %				5	
Redumn 0.7 sto < 2.50 to < 2.50 14 10.889 721 20.67 % 11.048 1.13 % 42.511 18.00 % 2.903 29.64 % 23 Redumn to High 2.00 to 10.000 (Perland) 17 15.80 18.00 %	Low						40	82.49 %		0.61 %	40.809	18.80 %				18	
Sept	Medium	0.75 to <2.50			14	10,899	721	20.67 %	11,048	1.13 %	42,816	18.60 %		2,923	26.46 %	23	
Default 100.00 (Default) 17 136 16 189 139 100.00 % 697 12.89 % 208 149.59 % 7	Medium to High															57	
Name	High Default																
	Sub-total	Too.oo (Belault)															
Series S	Non-Canadian residential		1	•													
Company Comp	Exceptionally low to Very low															1	
www.																-	
Index	Low						217	52.02 %			3.778					1	
September 10,000 (c=100,00)	Medium	0.75 to <2.50			23		62		1,651	1.03 %	6,796	30.97 %		711	43.05 %	-	
Default 100,00 (Default) 26					24		2										
Sub-boile	Default		,				143										
Exceptionally low to Very low 0.00 to <0.15	Sub-total	72000 (2000)					6,920										
Perplane Company 0.15 to -0.25 29 86 2.459 75.19 % 1,935 0.17 % 292,699 90.3 % 172 8.99 % 3	Qualifying revolving retail		•	•													
0.00	Exceptionally low to Very low													502		7	
0.00 to 0.075 31	Low																
Aedium to High	Low				31	8											
September 10,00 to <100,00 34	Medium																
Default 100.00 (Default) 35 63 30 39.23 % 75 100.00 % 5.206 53.47 % 216 289.28 % 35																	
Sub-total	Default		,														
1.00 to <0.15	Sub-total				36	9,313	63,185		43,351	1.15 %		72.44 %		7,852		349	371
Perform Composition Comp	Retail small-and-medium-sized entities																
.ow	Exceptionally low to Very low					412	2,233	78.39 %	2,466	0.06 %	50,808	60.25 %		294	11.91 %	1	
Low Modelum 0.50 to <0.75 b < 40 2.082 1.042 62.85 % 2.678 0.65 % 54.688 60.38 % 1.412 52.70 % 10 Modelum to High 0.75 to <2.50 < 41 3.506 546 59.23 % 3.738 1.89 % 26.625 57.63 % 2.890 77.30 % 41 Modelum to High 1.00 to <100.00 < 42 3.264 144 68.59 % 3.295 4.24 % 24.659 56.17 % 2.834 86.01 % 81 eligib 1.00 to <100.00 to <100.00 (Default) 42 3.264 144 68.59 % 3.295 4.24 % 24.659 56.17 % 2.834 86.01 % 81 eligib 1.00 to <100.00 (Default) 42 3.264 144 68.59 % 3.295 4.24 % 24.659 56.17 % 2.834 86.01 % 81 eligib 1.00 to <100.00 (Default) 42 3.264 144 68.59 % 3.295 4.24 % 24.659 56.17 % 2.834 86.01 % 81 eligib 1.00 to <100.00 (Default) 42 3.264 144 68.59 % 3.755 56 67.03 % 776 19.42 % 7,163 55.69 % 990 117.10 % 87 eligib 1.00 to <10.00 (Default) 42 24 19 84.67 % 204 100.00 % 5.218 57.00 % 980 480.86 % 59 eligib 1.00 to <10.00 (Default) 45 11,791 6.833 73.75 % 16.831 3.55 % 232,006 59.71 % 10.853 64.48 % 288 235 eligib 1.00 to <10.00 (Default) 45 11,791 6.833 73.75 % 16.831 3.55 % 232,006 59.71 % 10.853 64.48 % 288 235 eligib 1.00 to <10.00 (Default) 45 11,791 6.833 73.75 % 16.831 3.55 % 232,006 59.71 % 10.853 64.48 % 288 235 eligib 1.00 to <10.50 to <0.015 to <0.025 47 4,125 1,178 76.18 % 5.022 0.20 % 207,928 74.94 % 1,562 7 7 cow 0.25 to <0.50 48 5.09 4 2.494 28.24 % 5.798 0.28 % 726,703 42.16 % 1,324 22.83 % 7 cow 0.25 to <0.05 to <0.075 to <0.075 48 8.50 49 8.291 - 89.97 % 8.112 0.64 % 162.488 50.07 % 2.480 30.58 % 18 eligib 1.00 to <10.00 (Default) 52 759 307 31.44 % 854 25.04 % 249.83 51.12 % 9.36 19.65 % 105 eligib 1.00 to <10.00 (Default) 53 143 2 28.00 % 142 100.00 % 51.381 48.19 % 462 325.33 % 53 betault 1.00 to <10.00 (Default) 53 143 2 28.00 % 142 100.00 % 51.381 48.19 % 462 325.33 % 53 betault 1.00 to <10.00 (Default) 55 2.39,244 124,584 50.12 % 30,1686 1.02 % 8,79,407 33.86 % 50,498 16.74 % 1,177 1.096 100 to <10.00 (Default) 55 2.39,244 124,584 50.12 % 30,1686 1.02 % 8,79,407 33.86 % 50,498 16.74 % 1,177 1.096 100 to <10.00 (Default) 55 2.39,244 124,584 50.12 % 30,1686 1.02 % 8,79,407 33.86 % 50,498 16.7	Low					1,568	2,793	77.26 %	3.674	0.39 %	62.845	65.17 %		1.534	41.77 %	9	
Aedium to High	Low	0.50 to <0.75			40	2,082	1,042	62.85 %	2,678	0.65 %	54,688	60.38 %		1,412	52.70 %	10	
High 10.00 to <100.00 43 755 56 67.03 % 76 19.42 % 7,163 55.69 % 909 117,10 % 87 Default 9 100.00 (Default)	Medium																
Default 100.00 (Default) 44 204 19 84.67 % 204 100.00 % 5,218 57.00 % 980 480.86 % 59	Medium to High																
Circeptionally low to Very low 0.00 to <0.15 46 19,855 4,310 48.29 % 22,191 0.09 % 347,384 26.17 % 1,454 6.55 % 6 47 4,125 1,178 76.18 % 5,022 0.20 % 207,928 74.94 % 1,562 - 7 7 7 7 7 7 7 7 7	Default				44	204	19		204	100.00 %	5,218	57.00 %		980	480.86 %	59	
A	Sub-total				45	11,791	6,833	73.75 %	16,831	3.55 %	232,006	59.71 %		10,853	64.48 %	288	235
Very low to Low 0.15 to <0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Other retail						1	40.00.		0.55 (-1	0.7=0.7	00 := ::			0 == :-!		
Low 0.25 to <0.50															6.55 %		
.ow	Low														22.83 %		
Medium to High 2.50 to <10.00 51 3,440 211 31.75 % 3,480 4.76 % 326,076 43.12 % 2,328 66.90 % 68 ligh 10.00 to <100.00 52 759 307 31.44 % 854 25.04 % 249,838 51.12 % 936 109.65 % 105 light 100.00 (Default) 53 143 2 28.00 % 142 100.00 % 51,381 48.19 % 462 325.33 % 53 light 100.00 (Default) 54 48,251 9,152 45.21 % 52,386 1.35 % 2,317,996 37.72 % 14,061 26.34 % 303 276 (Total (all retail portfolios) 55 239,244 124,584 50.12 % 301,686 1.02 % 8,799,407 33.86 % 50,498 16.74 % 1,177 1,096	Low						-										
digh 10.00 to <100.00 to <100.00 to <100.00 52 759 to lefault 307 to lefault 31.44 % to lefault 854 to lefault 25.04 % to lefault 249,838 to lefault 51.12 % to lefault 936 to lefault 109.65 % to lefault 105 to lefault Sub-total 54 to lefault 54 to lefault 9,152 to lefault 52,386 to lefault 1.35 % to lefault 2,317,996 to lefault 37.72 % to lefault 14,061 to lefault 26.84 % to lefault 303 to lefault Fotal (all retail portfolios) 55 to lefault 239,244 to lefault 124,584 to lefault 301,686 to lefault 8,799,407 to lefault 33.86 % to lefault 50,498 to lefault 1,177 to lefault	Medium																
Default 100.00 (Default) 53 143 2 28.00 % 142 100.00 % 51,381 48.19 % 462 325.33 % 53 Sub-total 54 48,251 9,152 45.21 % 52,386 1.35 % 2,317,996 37.72 % 14,061 26.84 % 303 276 Fotal (all retail portfolios) 55 239,244 124,584 50.12 % 301,686 1.02 % 8,799,407 33.86 % 50,498 16.74 % 1,177 1,096	High																
fotal (all retail portfolios) 55 239,244 124,584 50.12 % 301,686 1.02 % 8,799,407 33.86 % 50,498 16.74 % 1,177 1,096	Default				53	143	2		142	100.00 %	51,381	48.19 %		462	325.33 %	53	
	Sub-total				_												
1) Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.	Total (all retail portfolios)					,					8,799,407	33.86 %		50,498	16.74 %	1,177	1,096

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Retail portfolios is at the account level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

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and the openit play two cours	VE DV DODTE		F 14/101 F 244	F (4) (0) (0)													
CR6 - IRB - CREDIT RISK EXPOSUR	E BY PORTFOLIC	AND PD RANG	E - WHOLESAL	.E (1) (2) (3)		Oriente el en	Off halaman		540		Q4 2022						
(\$ millions except as noted)			Moody's Investors Service implied	Standard & Poor's	LINE	Original on- balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF (4)	EAD post-CRM and post- CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years) (8)	RWA	RWA density	EL	Provision
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied equivalent	#	а	b	С	d	е	f	g	h	i	j	k	I
Corporate																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	56	73,099	115,806	48.61 %	140,071	0.08 %	6,769	32.61 %	2.06	25,631	18.30 %	39	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	57	48,172	55,732	44.32 %	70,749	0.19 %	6,805	34.64 %	2.20	22,862	32.31 %	47	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	58	54,157	47,828	45.59 %	73,092	0.32 %	10,095	34.43 %	2.23	30,620	41.89 %	81	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	59	44,311	35,378	49.61 %	59,454	0.55 %	8,013	32.81 %	2.28	30,649	51.55 %	108	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	60	48,784	29,404	49.72 %	60,926	1.20 %	9,790	33.69 %	2.50	44,407	72.89 %	237	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	61	10,994	7,315	51.99 %	14,117	3.86 %	3,445	33.67 %	2.30	14,476	102.54 %	184	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	62	2,307	866	49.68 %	2,668	16.27 %	921	34.56 %	1.88	4,302	161.24 %	154	
Default	Default	100.00 (Default)	С	C to D	63	1,245	329	56.11 %	1,382	100.00 %	443	39.87 %	3.13	2,680	193.92 %	567	
Sub-total		, , , , , ,			64	283,069	292,658	47.63 %	422,459	0.92 %	46,281	33.52 %		175,627	41.57 %	1,417	1,860
Sovereign	•																
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	65	225,339	7,644	61.36 %	230,075	0.01 %	1,761	3.70 %	2.87	4,396	1.91 %	3	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	66	2,716	459	76.88 %	3,050	0.19 %	113	23.09 %	2.64	198	6.50 %	-	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	67	216	175	38.73 %	270	0.32 %	91	24.11 %	1.95	76	28.00 %	-	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	68	177	102	35.89 %	210	0.57 %	62	30.47 %	1.77	97	46.11 %	-	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	69	61	22	33.29 %	60	1.28 %	54	29.53 %	1.25	33	56.21 %	-	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	70	244	57	34.16 %	262	2.84 %	80	34.89 %	1.36	163	62.07 %	2	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	71	-	-	-	-	-	-	-	-	-	-	-	
Default	Default	100.00 (Default)	С	C to D	72	3	-	-	3	100.00 %	1	49.11 %	1.00	21	650.75 %	-	
Sub-total		<u> </u>			73	228,756	8,459	61.17 %	233,930	0.02 %	2,162	4.04 %		4,984	2.13 %	5	10
Bank	•	•		•													
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	74	6,121	5,660	68.70 %	10,776	0.08 %	216	16.13 %	1.08	735	6.82 %	1	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	75	1,434	4,418	64.51 %	4,124	0.19 %	98	13.92 %	0.92	708	17.17 %	2	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	76	3,463	1,851	64.34 %	4,464	0.32 %	76	10.26 %	0.78	764	17.12 %	2	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	77	655	707	63.17 %	1,076	0.54 %	38	11.87 %	0.71	154	14.29 %	1	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	78	1,402	54	49.83 %	1,050	1.50 %	39	14.99 %	0.50	92	8.80 %	1	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	79	156	6	90.42 %	148	7.72 %	20	20.50 %	0.54	175	118.47 %	2	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	80	-	-	_	-	-	-	-	-	-	-	-	
Default	Default	100.00 (Default)	С	C to D	81	-	-	_	-	-	-	-	-	-	-	-	
Sub-total		<u> </u>			82	13,231	12,696	66.23 %	21,638	0.29 %	487	14.26 %		2,628	12.15 %	9	8
Total (all wholesale portfolios)					83	525,056	313,813	48.75 %	678,027	0.59 %	48,930	22.74 %		183,239	27.02 %	1,431	1,878
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⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

⁽⁸⁾ Calculated as the effective maturity in years weighted by EAD.

CR6 - IRB - CREDIT RISK EXPOS	URE BY PORTFOLIO AND P	D RANGE - RET	AIL (1) (2) (3)							Q3 2022						
(\$ millions except as noted)			()()()		Original on-	Off-balance										
		Moody's Investors	Standard & Poor's implied	LINE	balance sheet gross exposure	sheet exposures pre-CCF	Average CCF (4)	EAD post- CRM and post-CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years)	RWA	RWA density	EL	Provisions
Risk Profile	BMO Rating PD Scale (%)	equivalent	equivalent	#	a	b pre-ccr	CCF (4)	d d	e e	f	g g	(years) h	i	j	k	I
Canadian insured residential					<u> </u>				<u>'</u>				<u> </u>	<u>'</u>	<u>'</u>	<u>'</u>
Exceptionally low to Very low	0.00 to <0.15			1	30,339	-	-	40,674	0.01 %	128,913	30.79 %		346	0.85 %	1	
Very low to Low	0.15 to <0.25			2	-	-	-	-	-	-	-			-	-	
Low	0.25 to <0.50			3	-	-	-	-	-	-	-		-	-	-	
Low	0.50 to <0.75			4	6,844	-	-	271	0.61 %	14,031	41.25 %		96	35.59 %	1	
Medium	0.75 to <2.50			5	2,058	-	-	2	1.32 %	5,382	41.63 %		1	66.21 %	-	
Medium to High	2.50 to <10.00			6	1,498	-	-	-	-	4,510	-		-	-	-	
High	10.00 to <100.00			7	123 85	-	-	-	-	547	-		-	-	-	
Default Sub-total	100.00 (Default)			9	40,947	-	-	40.947	0.01 %	448 153,831	30.86 %		443	1.08 %	2	5
Sub-total				9	40,947	-	-	40,947	0.01 %	153,631	30.00 %		443	1.06 %] 5
Canadian uninsured residential	0.004- 10.45			10	70.400	05.455	40.40.0/	04.470	0.00.0/	100.007	47.00.0/		0.570	0.00.0/	- 44	
Exceptionally low to Very low Very low to Low	0.00 to <0.15 0.15 to <0.25			10 11	76,190 9,328	35,155 1,761	43.48 % 28.05 %	91,476 9,823	0.09 % 0.22 %	469,927 50,546	17.39 % 20.12 %		3,572 901	3.90 % 9.16 %	14 4	
Low	0.15 to <0.25 0.25 to <0.50			12	9,320	1,701	20.05 %	9,023	0.22 %	30,346	20.12 %		901	9.10 %	4	
Low	0.50 to <0.75			13	15,096	35	80.57 %	15,126	0.61 %	39,157	18.77 %		2,674	17.68 %	17	
Medium	0.75 to <2.50			14	8,075	642	23.89 %	8,228	1.17 %	31,100	19.00 %		2,277	27.67 %	18	
Medium to High	2.50 to <10.00			15	4,679	124	34.50 %	4,721	6.64 %	13,212	15.85 %		2,968	62.86 %	49	
High	10.00 to <100.00			16	289	20	21.76 %	293	41.98 %	1,709	14.35 %		231	78.66 %	17	
Default	100.00 (Default)			17	121	16	18.94 %	124	100.00 %	931	12.45 %		168	135.42 %	7	
Sub-total				18	113,778	37,753	42.41 %	129,791	0.66 %	606,582	17.79 %		12,791	9.85 %	126	65
Non-Canadian residential																
Exceptionally low to Very low	0.00 to <0.15			19	1,402	5,841	58.92 %	4,843	0.04 %	42,603	43.28 %		273	5.64 %	1	
Very low to Low	0.15 to <0.25			20	6,261	108	100.00 %	6,370	0.17 %	12,245	21.44 %		504	7.92 %	2	
Low	0.25 to <0.50			21	529	199	49.91 %	628	0.37 %	5,879	45.00 %		190	30.26 %	1	
Low	0.50 to <0.75			22	1,164	23	100.00 %	1,187	0.72 %	5,826	30.00 %		371	31.25 %	2	
Medium	0.75 to <2.50			23	337	28	45.56 %	349	1.24 %	4,486	46.81 %		267	76.39 %	2	
Medium to High	2.50 to <10.00 10.00 to <100.00			24 25	388 122	1 96	88.62 %	389 182	3.69 %	2,516 1,565	30.96 % 29.05 %		356 303	91.45 % 166.19 %	5 13	
Default	100.00 (Default)			26	214	90	62.07 %	214	23.88 % 100.00 %	4,729	38.23 %		569	264.97 %	60	
Sub-total	100.00 (Belault)			27	10,417	6,296	59.48 %	14,162	2.12 %	79,849	31.91 %		2,833	19.99 %	86	102
Qualifying revolving retail					10,417	0,200	00.40 /0	14,102	2.12 /0	70,040	01.01 /0		2,000	10.00 70	00	102
Exceptionally low to Very low	0.00 to <0.15			28	1,232	40,714	57.57 %	24,670	0.04 %	3,240,763	77.87 %		613	2.48 %	8	
Very low to Low	0.15 to <0.25			29	563	2,438	71.59 %	2,309	0.23 %	312,610	83.23 %		241	10.45 %	4	
Low	0.25 to < 0.50			30	2,419	12,618	37.15 %	7,107	0.29 %	643,747	61.82 %		672	9.46 %	13	
Low	0.50 to <0.75			31	464	1,036	83.52 %	1,329	0.69 %	203,085	87.66 %		354	26.66 %	8	
Medium	0.75 to <2.50			32	3,297	3,510	44.69 %	4,866	1.23 %	404,403	74.56 %		1,761	36.20 %	46	
Medium to High	2.50 to <10.00			33	2,075	1,314	79.35 %	3,118	4.47 %	426,359	83.99 %		3,009	96.51 %	116	
High	10.00 to <100.00			34	484	224	62.83 %	625	24.22 %	85,466	73.61 %		1,180	188.80 %	114	
Default	100.00 (Default)			35	56	25	40.70 %	66	100.00 %	4,448	58.45 %		203	305.50 %	32	100
Sub-total				36	10,590	61,879	54.14 %	44,090	1.05 %	5,320,881	75.84 %		8,033	18.22 %	341	430
Retail small-and-medium-sized entities							70.000	==/:	0.000		F0			44.55		
Exceptionally low to Very low	0.00 to <0.15			37	445	2,356	73.36 %	2,511	0.06 %	55,738	59.92 %		291	11.60 %	1	
Very low to Low Low	0.15 to <0.25 0.25 to <0.50			38 39	158 1,500	776 2,480	68.00 % 75.86 %	686 3,324	0.19 % 0.43 %	42,066 38,001	87.75 % 63.75 %		246 1,356	35.82 % 40.80 %	8	
Low	0.25 to <0.50 0.50 to <0.75			40	1,918	2,460	75.00 %	2,016	0.43 %	14,364	53.94 %		979	48.54 %	0 7	
Medium	0.30 to <0.73 0.75 to <2.50			41	3.063	743	53.28 %	3,366	1.81 %	47,080	58.09 %		2,563	76.15 %	35	
Medium to High	2.50 to <10.00			42	3,286	291	46.35 %	3,338	4.37 %	24,761	58.78 %		3,027	90.69 %	90	
High	10.00 to <100.00			43	714	46	77.74 %	726	18.97 %	5,438	54.91 %		835	115.08 %	78	
Default	100.00 (Default)			44	188	26	85.81 %	200	100.00 %	5,116	58.93 %		1,009	504.32 %	58	
Sub-total				45	11,272	6,953	70.37 %	16,167	3.56 %	232,564	60.29 %		10,306	63.75 %	278	208
Other retail																
Exceptionally low to Very low	0.00 to <0.15			46	19,153	4,150	50.00 %	21,477	0.09 %	354,866	26.18 %		1,369	6.38 %	5	
Very low to Low	0.15 to <0.25			47	4,310	1,085	72.99 %	5,102	0.20 %	177,026	74.01 %		1,571	30.80 %	7	
Low	0.25 to <0.50			48	4,807	2,374	27.89 %	5,469	0.30 %	762,659	42.29 %		1,289	23.56 %	7	
Low	0.50 to <0.75 0.75 to <2.50			49 50	6,687 7,444	16	55.94 %	6,522	0.63 %	125,774	34.51 % 44.68 %		1,944 4,123	29.81 %	14 46	
Medium Medium to High	2.50 to <10.00			50	7, 444 3,017	704 40	41.34 % 36.60 %	7,691 3,003	1.25 % 4.69 %	386,713 177,543	44.68 % 44.27 %		2,070	53.61 % 68.93 %	60	
High	10.00 to <10.00			52	971	293	34.78 %	1.072	22.85 %	221.278	50.96 %		1.177	109.76 %	122	
Default	10.00 to 100.00			53	129	233	25.36 %	128	100.00 %	50.022	46.20 %		391	305.81 %	45	
Sub-total	TEET (Boldan)			54	46.518	8.664	45.55 %	50.464	1.38 %	2,255,881	38.31 %		13.934	27.61 %	306	244
Total (all retail portfolios)				55	233.522	121,545	51.09 %	295,621	0.98 %	8,649,588	34.76 %		48,340	16.35 %	1,139	1,054
(a o.a pooo)		1	1		_00,022	.21,0-70	000 /0	200,021	0.00 /0	5,545,550	J 0 /0		.5,540	/0	1,100	1,004

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Retail portfolios is at the account level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

CR6 - IRB - CREDIT RISK EXPOSUR	E BY PORTFOLIC	AND PD RANG	E - WHOLESAL	E (1) (2) (3)							Q3 2022						
(\$ millions except as noted)			Moody's Investors Service implied	Standard & Poor's	LINE	Original on- balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF (4)	EAD post-CRM and post- CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years) (8)	RWA	RWA density	EL	Provisions
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied equivalent	#	а	b	С	d	е	f	g	h	i	j	k	I
Corporate																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	56	64,522	112,730	49.45 %	129,998	0.08 %	6,558	33.90 %	2.12	25,335	19.49 %	37	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	57	44,874	58,817	46.59 %	69,952	0.19 %	6,731	35.30 %	2.14	23,007	32.89 %	47	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	58	52,940	43,062	46.73 %	70,639	0.32 %	10,056	34.52 %	2.26	29,622	41.93 %	78	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	59	41,359	35,361	50.30 %	56,920	0.55 %	7,918	33.63 %	2.25	30,008	52.72 %	106	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	60	44,902	28,791	51.10 %	57,412	1.20 %	10,732	34.33 %	2.46	42,609	74.22 %	230	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	61	9,293	7,542	51.69 %	12,717	3.83 %	3,329	34.41 %	2.05	12,848	101.03 %	167	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	62	2,088	630	49.45 %	2,345	16.26 %	900	35.81 %	1.70	3,849	164.15 %	137	
Default	Default	100.00 (Default)	С	C to D	63	1,376	451	100.00 %	1,792	100.00 %	492	37.89 %	2.69	4,128	230.33 %	614	
Sub-total					64	261,354	287,384	48.87 %	401,775	1.03 %	46,716	34.32 %		171,406	42.66 %	1,416	1,795
Sovereign	•	•							•								
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	65	199,516	7,177	60.73 %	203,931	0.01 %	1,766	4.41 %	3.05	4,320	2.12 %	4	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	66	296	144	67.55 %	373	0.19 %	122	23.81 %	2.37	90	24.14 %	-	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	67	344	285	41.01 %	445	0.32 %	97	23.88 %	1.76	120	26.88 %	-	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	68	224	103	34.05 %	255	0.57 %	62	33.79 %	1.88	92	36.18 %	-	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	69	70	22	35.22 %	63	1.30 %	85	29.47 %	1.27	36	56.61 %	-	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	70	220	61	34.98 %	240	2.83 %	116	35.38 %	1.32	171	70.96 %	2	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	71	4	-	-	4	15.30 %	2	49.13 %	1.00	8	238.88 %	-	
Default	Default	100.00 (Default)	С	C to D	72	1	-	-	1	100.00 %	1	20.00 %	5.00	4	265.00 %	-	
Sub-total					73	200,675	7,792	59.51 %	205,312	0.02 %	2,251	4.57 %		4,841	2.36 %	6	17
Bank																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	74	11,657	5,588	69.97 %	16,317	0.07 %	220	16.30 %	1.39	1,242	7.62 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	75	4,168	4,303	60.77 %	6,602	0.19 %	107	14.08 %	1.23	198	3.00 %	1	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	76	1,235	1,583	61.30 %	2,007	0.32 %	73	13.16 %	0.97	320	15.95 %	1	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	77	511	637	60.79 %	868	0.54 %	39	12.22 %	1.79	153	17.60 %	1	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	78	1,894	38	80.04 %	1,597	1.45 %	41	17.30 %	0.48	578	36.20 %	4	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	79	108	8	90.81 %	104	5.10 %	20	14.48 %	0.41	97	93.40 %	1	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	80	11	-	-	11	15.28 %	1	45.00 %	1.00	24	218.72 %	1	
Default	Default	100.00 (Default)	С	C to D	81	-	-	-	-	-	-	-	-	-	-	-	
Sub-total					82	19,584	12,157	65.15 %	27,506	0.24 %	501	15.47 %		2,612	9.50 %	11	4
Total (all wholesale portfolios)					83	481,613	307,333	49.78 %	634,593	0.67 %	49,468	23.88 %		178,859	28.19 %	1,433	1,816

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

⁽⁸⁾ Calculated as the effective maturity in years weighted by EAD.

CR6 - IRB - CREDIT RISK EXPOSU	RE BY PORTFOLIO A	ND PD RANGE - RE	TAIL (1) (2) (3)							Q2 2022						
(\$ millions except as noted)					Original on-	Off-balance		·								
		Moody's Investors	Standard &		balance sheet gross	sheet exposures	Average	EAD post- CRM and	Average	Number of	Average	Average maturity		RWA		
		Service implied		LINE	exposure	pre-CCF	CCF (4)	post-CCF	PD (5)	obligors (6)	LGD (7)	(years)	RWA	density	EL	Provisions
Risk Profile	BMO Rating PD Scale	%) equivalent	equivalent	#	а	b	С	d	е	t	g	h	i	j	k	!
Canadian insured residential	10.004- 40	45			00.450			20.070	0.04.0/	400.754	00.44.0/		004	0.00.0/		
Exceptionally low to Very low Very low to Low	0.00 to <0 0.15 to <0			2	29,456	-		39,678	0.01 %	126,751	30.14 %		364	0.92 %	1	
Low	0.25 to <0	50		3	-	-	-	-	-	-	-		-	-	-	
Low Medium	0.50 to <0 0.75 to <2			4 5	6,680 2.032	-	-	261	0.61 %	13,906 5,443	39.93 % 39.70 %		99	38.04 % 63.14 %	1	
Medium to High	2.50 to <1			6	1,555				1.32 %	5,443 4.745	39.70 %		'	03.14 %		
High	10.00 to <	00.00		7	116	-	-	-	-	521	-		-	-	-	
Default	100.00 (D	fault)		8	101	-	-	-	- 0.04.0/	475			- 404	- 4.7.0/	-	_
Sub-total				9	39,940	-		39,941	0.01 %	151,841	30.20 %		464	1.17 %	2	5
Canadian uninsured residential Exceptionally low to Very low	0.00 to <0	15		10	74,512	34,248	43.51 %	89,414	0.09 %	469,546	16.95 %		3,396	3.80 %	13	
Very low to Low	0.15 to <0	25		11	8,964	1,651	27.18 %	9,413	0.22 %	49,310	19.48 %		835	8.86 %	4	
Low	0.25 to <0			12		-	-	-		-				-	-	
Low Medium	0.50 to <0 0.75 to <2			13 14	14,581 7,872	28 544	76.60 % 22.52 %	14,603 7,994	0.61 % 1.18 %	39,061 30,610	17.61 % 18.00 %		2,460 2,106	16.84 % 26.34 %	16 17	
Medium to High	2.50 to <1			15	4,606	95	36.34 %	4,641	6.65 %	13,142	14.83 %		2,733	58.90 %	45	
High	10.00 to <			16	263	24	20.08 %	267	42.58 %	1,534	13.44 %		197	73.53 %	15	
Default Sub-total	100.00 (D	fault)		17 18	126 110,924	36,604	19.55 % 42.44 %	128 126,460	100.00 % 0.66 %	976 604,179	12.08 % 17.19 %		163 11,890	126.84 % 9.40 %	7 117	61
Non-Canadian residential				10	110,924	30,004	42.44 70	120,400	0.00 %	604,179	17.19 %		11,090	9.40 %	117	01
Exceptionally low to Very low	0.00 to <0	15		19	1,332	5,732	59.01 %	4,715	0.04 %	42,018	67.39 %		414	8.78 %	1	
Very low to Low	0.15 to <0			20	5,853	90	100.00 %	5,943	0.17 %	12,199	21.15 %		464	7.81 %	2	
Low Low	0.25 to <0 0.50 to <0			21 22	525 1,083	192 18	50.29 % 100.00 %	621 1,100	0.37 % 0.72 %	5,797 5,891	69.43 % 28.98 %		290 331	46.69 % 30.10 %	2	
Medium	0.50 to <0			23	414	30	44.53 %	427	1.24 %	4.442	70.33 %		453	105.98 %	4	
Medium to High	2.50 to <1	0.00		24	381	2	88.70 %	383	3.70 %	2,573	36.70 %		435	113.64 %	6	
High Default	10.00 to < 100.00 (D			25 26	123 225	88	62.74 %	178 225	23.70 % 100.00 %	1,575 5,377	33.62 % 42.83 %		342 695	192.34 % 308.98 %	14 64	
Sub-total	100.00 (D	iauit)		27	9,936	6,152	59.45 %	13,592	2.27 %	79,872	42.53 %		3,424	25.20 %	95	
Qualifying revolving retail	l				5,000	2,122		,			12.01.70		,			
Exceptionally low to Very low	0.00 to <0			28	1,062	40,317	57.02 %	24,050	0.04 %	3,214,382	77.65 %		591	2.46 %	8	
Very low to Low Low	0.15 to <0 0.25 to <0			29 30	506 2.194	2,320 12,268	70.91 % 37.58 %	2,151 6.804	0.23 % 0.29 %	300,110 617.846	82.35 % 61.32 %		222 638	10.34 % 9.38 %	4 12	
Low	0.25 to <0 0.50 to <0			31	417	982	82.37 %	1,226	0.29 %	196,069	86.10 %		321	26.21 %	7	
Medium	0.75 to <2	50		32	3,073	3,496	46.10 %	4,684	1.23 %	391,648	74.30 %		1,688	36.03 %	44	
Medium to High High	2.50 to <1 10.00 to <			33 34	1,939 434	1,345 213	79.39 % 63.23 %	3,007 569	4.44 % 23.67 %	419,245 80,896	83.47 % 73.78 %		2,872 1,069	95.50 % 187.90 %	112 102	
Default	10.00 to <			35	54	24	41.61 %	64	100.00 %	4,109	57.52 %		212	331.13 %	29	
Sub-total	,,,,,,,			36	9,679	60,965	53.93 %	42,555	1.02 %	5,224,305	75.48 %		7,613	17.89 %	318	
Retail small-and-medium-sized entities																
Exceptionally low to Very low	0.00 to <0 0.15 to <0			37 38	1,454	2,990 571	76.09 % 65.99 %	4,060 511	0.08 % 0.19 %	60,978 37,792	58.96 % 88.14 %		575 184	14.16 % 36.03 %	2	
Very low to Low Low	0.15 to <0 0.25 to <0			38	134 114	5/1 377	65.99 % 68.30 %	372	0.19 %	37,792 22,863	88.14 % 87.02 %		184 229	36.03 % 61.56 %	1	
Low	0.50 to <0	75		40	2,057	437	86.62 %	2,334	0.58 %	13,585	55.13 %		1,062	45.52 %	7	
Medium Medium to Llich	0.75 to <2			41	2,227	631	55.61 %	2,470	1.54 %	43,120	58.42 %		1,801	72.90 %	22	
Medium to High High	2.50 to <1 10.00 to <			42 43	3,300 642	267 19	49.44 % 81.08 %	3,321 651	4.15 % 15.94 %	25,103 4,988	58.53 % 54.39 %		2,980 720	89.74 % 110.64 %	85 58	
Default	100.00 (D			44	154	3	97.66 %	152	100.00 %	4,526	58.09 %		627	411.57 %	57	
Sub-total				45	10,082	5,295	71.56 %	13,871	3.25 %	212,955	59.72 %		8,178	58.95 %	233	175
Other retail		45		1 40	17.070	404.1	40.70.01	20.012	0.00.01	055.703	05.05.61		4.050	0.40.61		
Exceptionally low to Very low Very low to Low	0.00 to <0 0.15 to <0			46 47	17,973 4,352	4,014 1,089	49.79 % 73.26 %	20,218 5,150	0.09 % 0.20 %	355,720 179,073	25.65 % 75.35 %		1,252 1,613	6.19 % 31.32 %	5 7	
Low	0.25 to <0			48	4,919	2,348	27.87 %	5,573	0.30 %	758,633	42.36 %		1,314	23.57 %	7	
Low	0.50 to <0			49	6,248	18	56.08 %	6,089	0.63 %	125,883	33.97 %		1,788	29.36 %	13	
Medium Medium to High	0.75 to <2 2.50 to <1			50 51	6,963 2,859	696 32	42.79 % 40.77 %	7,216 2,843	1.24 % 4.70 %	383,512 168,556	44.27 % 43.76 %		3,747 1,939	51.93 % 68.21 %	41 56	
High	10.00 to <			52	924	277	34.52 %	1,019	22.14 %	220,890	51.38 %		1,481	145.44 %	145	
Default	100.00 (D			53	128	2	31.59 %	126	100.00 %	51,339	46.09 %		428	339.74 %	40	
Sub-total				54	44,366	8,476	45.63 %	48,234	1.36 %	2,243,606	38.39 %		13,562	28.12 %	314	
Total (all retail portfolios)				55	224,927	117,492	50.84 %		0.95 %	8,516,758	34.61 %		45,131	15.86 %	1,079	975

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Retail portfolios is at the account level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

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CR6 - IRB - CREDIT RISK EXPOSUR	E BY PORTFOLIC	AND PD RANG	E - WHOLESAL	E (1) (2) (3)							Q2 2022						
(\$ millions except as noted)			Moody's Investors Service implied	Standard & Poor's	LINE	Original on- balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF (4)	EAD post-CRM and post- CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years) (8)	RWA	RWA density	EL	Provision
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied equivalent	#	а	b	С	d	е	f	g	h	i	j	k	I
Corporate																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	56	68,002	105,710	49.55 %	129,699	0.08 %	6,686	34.12 %	2.08	24,085	18.57 %	37	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	57	41,482	54,895	46.99 %	65,869	0.19 %	7,267	35.42 %	2.13	21,687	32.93 %	44	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	58	49,405	45,115	47.00 %	68,069	0.32 %	10,827	34.79 %	2.18	28,325	41.61 %	76	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	59	40,888	33,640	50.24 %	55,151	0.55 %	8,314	33.22 %	2.22	28,505	51.69 %	101	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	60	40,968	26,970	51.06 %	52,717	1.21 %	11,133	33.84 %	2.44	37,916	71.92 %	209	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	61	9,246	6,435	53.09 %	12,101	3.94 %	3,663	34.48 %	2.02	11,943	98.69 %	162	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	62	2,196	839	59.68 %	2,597	16.04 %	951	35.82 %	1.73	4,293	165.32 %	149	
Default	Default	100.00 (Default)	С	C to D	63	1,563	512	100.00 %	2,024	100.00 %	516	37.32 %	2.51	4,763	235.38 %	640	
Sub-total Sub-total		` ′			64	253,750	274,116	49.06 %	388,227	1.11 %	49,357	34.33 %		161,517	41.60 %	1,418	1,856
Sovereign	•		•	•													
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	65	197,117	7,436	60.37 %	201,670	0.01 %	1,799	4.65 %	3.08	4,174	2.07 %	4	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	66	302	131	71.45 %	374	0.19 %	130	22.97 %	2.06	82	21.89 %	-	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	67	260	367	40.75 %	390	0.32 %	105	24.02 %	1.84	143	36.74 %	-	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	68	100	40	34.75 %	109	0.57 %	63	34.75 %	2.58	54	49.77 %	-	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	69	61	32	34.22 %	56	1.19 %	90	38.44 %	1.41	42	75.46 %	-	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	70	285	58	38.81 %	307	2.74 %	109	34.09 %	1.28	212	68.95 %	3	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	71	1	-	-	-	15.30 %	3	32.84 %	1.00	-	159.67 %	-	
Default	Default	100.00 (Default)	С	C to D	72	4	-	-	4	100.00 %	4	39.37 %	2.55	19	519.85 %	-	
Sub-total		,			73	198,130	8,064	59.27 %	202,910	0.02 %	2,303	4.79 %		4,726	2.33 %	7	8
Bank																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	74	10,201	5,631	70.32 %	14,974	0.07 %	216	16.99 %	1.26	1,222	8.16 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	75	3,146	4,131	63.32 %	5,510	0.19 %	101	13.98 %	1.20	523	9.50 %	1	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	76	4,429	1,555	60.87 %	5,157	0.32 %	75	13.74 %	1.20	581	11.26 %	2	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	77	911	629	61.08 %	1,257	0.54 %	40	12.19 %	2.11	357	28.42 %	1	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	78	1,770	12	86.62 %	1,481	1.45 %	40	15.00 %	0.45	457	30.90 %	2	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	79	158	16	52.93 %	161	4.43 %	24	20.43 %	0.46	119	73.78 %	2	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	80	11	-	-	11	15.28 %	1	45.00 %	1.00	24	218.72 %	1	
Default	Default	100.00 (Default)	С	C to D	81	-	-	-	-	-	-	-	-	-	-	-	
Sub-total					82	20,626	11,974	66.19 %	28,551	0.26 %	497	15.54 %		3,283	11.50 %	11	9
Total (all wholesale portfolios)	B: 1 0 ::: :: E				83	472,506	294,154	50.04 %	619,688	0.71 %	52,157	23.79 %		169,526	27.36 %	1,436	1,873

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

⁽⁸⁾ Calculated as the effective maturity in years weighted by EAD.

CR6 - IRB - CREDIT RISK EXPOSU	RE BY PORTFOLIO AND P	D RANGE - RET	AIL (1) (2) (3)	ſ						Q1 2022						
(\$ millions except as noted)		Maria		Ī	Original on-	Off-balance		540								
		Moody's Investors	Standard &		balance sheet gross	sheet exposures	Average	EAD post- CRM and	Average	Number of	Average	Average maturity		RWA		
D. I D. G.				INE	exposure	pre-CCF	CCF (4)	post-CCF	PD (5)	obligors (6)	LGD (7)	(years)	RWA	density	EL	Provisions
	BMO Rating PD Scale (%)	equivalent	equivalent	#	a	b	С	d	е	Ť	g	h		J	k	
Canadian insured residential	10.00 +- +0.45			4 1	30,506			40,889	0.04.0/	129,635	00.00.0/1		154	4.00.0/		
Exceptionally low to Very low Very low to Low	0.00 to <0.15 0.15 to <0.25			2	30,306	-		40,009	0.01 %	129,035	26.20 %		451	1.08 %		
Low	0.25 to <0.50			3	-	-	-	-	-	-	-		-	-	-	
Low Medium	0.50 to <0.75 0.75 to <2.50			5	6,443 2,117	-	-	-	-	14,299 5.602	-		-	-	-	
Medium to High	2.50 to <10.00			6	1.594	-			-	4.798	[[
High	10.00 to <100.00			7	118	-	-	-	-	563	-		-	-	-	
Default	100.00 (Default)			8	109	-	-	- 40.000	- 0.04.0/	509			- 454	- 4 00 0/	-	_
Sub-total				9	40,887	-	-	40,889	0.01 %	155,406	26.20 %		451	1.08 %	-	7
Canadian uninsured residential Exceptionally low to Very low	0.00 to <0.15			10	72,346	33,456	43.36 %	86,853	0.09 %	462,395	16.54 %		3,214	3.70 %	12	
Very low to Low	0.15 to <0.25			11	9,343	1,467	26.31 %	9,729	0.22 %	49,633	18.85 %		835	8.58 %	4	
Low	0.25 to <0.50			12									l			
Low Medium	0.50 to <0.75 0.75 to <2.50			13 14	14,166 7,473	27 553	76.39 % 22.70 %	14,187 7,599	0.61 % 1.19 %	39,312 29,589	16.78 % 17.25 %		2,270 1,928	16.00 % 25.37 %	15 15	
Medium to High	2.50 to <10.00			15	4,428	92	35.65 %	4,461	6.73 %	12,750	14.17 %		2,527	56.64 %	42	
High	10.00 to <100.00			16	271	17	23.00 %	275	43.68 %	1,526	13.34 %		197	71.65 %	15	
Default Cub total	100.00 (Default)			17 18	138 108,165	15 35,627	19.54 % 42.32 %	141 123,245	100.00 % 0.68 %	1,036 596,241	11.85 % 16.70 %		194 11,165	137.21 % 9.06 %	9 112	79
Sub-total Non-Canadian residential				18	108,165	35,627	42.32 %	123,245	0.68 %	596,241	16.70 %		11,165	9.06 %	112	/9
Exceptionally low to Very low	0.00 to <0.15			19	1,273	5,577	59.03 %	4,565	0.04 %	41,763	67.72 %		403	8.82 %	1	
Very low to Low	0.15 to <0.25			20	5,411	66	100.00 %	5,477	0.17 %	12,206	20.43 %		413	7.54 %	2	
Low	0.25 to <0.50			21	514	210	51.09 %	621	0.37 % 0.71 %	5,814	69.94 %		292	47.03 %	2	
Low Medium	0.50 to <0.75 0.75 to <2.50			22 23	1,099 425	15 28	100.00 % 46.27 %	1,114 437	1.25 %	6,208 4,554	29.33 % 70.65 %		339 468	30.40 % 107.01 %	4	
Medium to High	2.50 to <10.00			24	409	2	98.14 %	411	3.72 %	2,704	37.08 %		473	115.12 %	6	
High	10.00 to <100.00			25 26	108	102	62.65 %	171	23.21 %	1,650	36.79 %		360	209.76 %	15	
Default Sub-total	100.00 (Default)			27	233 9,472	6,000	64.05 % 59.32 %	233 13,029	100.00 % 2.42 %	5,383 80,282	42.61 % 42.94 %		709 3,457	304.15 % 26.51 %	67 99	111
Qualifying revolving retail	I			21	5,412	0,000	33.32 /0	10,025	2.42 /0	00,202	72.54 /0		0,401	20.51 /0	- 33	
Exceptionally low to Very low	0.00 to <0.15			28	1,545	40,051	57.16 %	24,439	0.04 %	3,184,569	78.86 %		609	2.49 %	8	
Very low to Low	0.15 to <0.25			29	675	2,323	70.08 %	2,303	0.23 %	304,216	83.58 %		242	10.49 %	4	
Low Low	0.25 to <0.50 0.50 to <0.75			30 31	2,182 614	11,495 957	37.48 % 81.56 %	6,491 1,394	0.29 % 0.69 %	599,917 198,670	61.17 % 86.89 %		610 369	9.39 % 26.47 %	12 8	
Medium	0.75 to <2.50			32	3,120	3,030	45.88 %	4,510	1.25 %	374,789	75.94 %		1,639	36.33 %	43	
Medium to High	2.50 to <10.00			33	2,152	1,125	79.69 %	3,049	4.40 %	386,764	84.85 %		2,942	96.49 %	113	
High Default	10.00 to <100.00 100.00 (Default)			34 35	506 51	216 25	61.51 % 41.66 %	638 62	24.61 % 100.00 %	80,270 4,035	74.53 % 56.79 %		1,209 194	189.25 % 314.02 %	120 29	
Sub-total	100.00 (Belault)			36	10,845	59,222	54.10 %	42,886	1.06 %	5,133,230	76.72 %		7,814	18.21 %	337	463
Retail small-and-medium-sized entities	<u>'</u>	•														
Exceptionally low to Very low	0.00 to <0.15			37	1,494	3,062	75.89 %	4,267	0.08 %	61,954	58.95 %		605	14.18 %	2	
Very low to Low Low	0.15 to <0.25 0.25 to <0.50			38 39	127 84	574 306	66.46 % 70.60 %	508 300	0.19 % 0.44 %	36,833 18,846	88.99 % 88.20 %		185 187	36.38 % 62.39 %	1	
Low	0.25 to <0.50 0.50 to <0.75			40	2,021	439	86.49 %	2,306	0.44 %	13,808	56.08 %		1,068	46.32 %	7	
Medium	0.75 to <2.50			41	2,176	629	55.64 %	2,423	1.54 %	43,499	59.17 %		1,790	73.87 %	22	
Medium to High High	2.50 to <10.00 10.00 to <100.00			42 43	3,466 686	234 20	47.93 % 77.66 %	3,336 694	4.10 % 16.29 %	25,568 5,476	58.28 % 54.54 %		2,975 773	89.19 % 111.36 %	83 64	
Default	100.00 (Default)			43	161	3	96.51 %	161	100.00 %	4,618	59.55 %		676	419.23 %	58	
Sub-total				45	10,215	5,267	71.80 %	13,995	3.34 %	210,602	59.86 %		8,259	59.01 %	238	160
Other retail																
Exceptionally low to Very low	0.00 to <0.15 0.15 to <0.25			46 47	14,583	3,761 1,148	49.95 %	16,725 6,482	0.08 % 0.20 %	174,223 254,548	21.12 % 72.23 %		725 1,973	4.34 % 30.44 %	3 9	
Very low to Low Low	0.15 to < 0.25 0.25 to < 0.50			47	5,624 6,416	2,326	74.69 % 28.01 %	7,067	0.20 %	254,548 830,224	44.98 %		1,973	30.44 % 27.14 %	11	
Low	0.50 to <0.75			49	3,570	23	55.19 %	3,400	0.62 %	12,863	19.50 %		567	16.69 %	4	
Medium Medium to Lligh	0.75 to <2.50			50	9,189	703	41.43 %	9,433	1.38 %	527,371	46.79 %		5,256	55.73 %	63	
Medium to High High	2.50 to <10.00 10.00 to <100.00			51 52	2,022 1,074	35 297	44.55 % 34.25 %	2,009 1,175	5.20 % 19.81 %	176,028 257,511	41.39 % 64.57 %		1,291 1,575	64.28 % 134.02 %	41 147	
Default	100.00 (Default)			53	127	3	33.36 %	125	100.00 %	51,647	46.49 %		401	319.98 %	43	
Sub-total				54	42,605	8,296	45.92 %	46,416	1.43 %	2,284,415	39.03 %		13,706	29.53 %	321	256
Total (all retail portfolios)				55	222,189	114,412	50.93 %	280,460	0.98 %	8,460,176	34.33 %		44,852	15.99 %	1,107	1,076

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Retail portfolios is at the account level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

CR6 - IRB - CREDIT RISK EXPOSUR	RE BY PORTFOLIC	AND PD RANG	E - WHOLESAL	E (1) (2) (3)		Q1 2022											
(\$ millions except as noted)			Moody's Investors Service implied	Standard & Poor's	LINE	Original on- balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF (4)	EAD post-CRM and post- CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years) (8)	RWA	RWA density	EL	Provisions
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied equivalent	#	а	b	С	d	е	f	g	h	i	j	k	1
Corporate		<u> </u>	<u> </u>														
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	56	62,616	101,782	49.98 %	122,677	0.08 %	6,451	35.08 %	2.07	23,955	19.53 %	36	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	57	39,408	55,253	46.41 %	63,641	0.20 %	6,947	35.52 %	2.26	22,148	34.80 %	45	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	58	50,117	45,651	46.48 %	68,871	0.32 %	10,380	34.92 %	2.25	29,436	42.74 %	77	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	59	40,717	34,128	50.33 %	55,470	0.59 %	8,164	33.42 %	2.36	30,597	55.16 %	111	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	60	40,649	29,009	51.17 %	53,393	1.26 %	10,936	34.39 %	2.48	40,185	75.26 %	228	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	61	9,205	6,560	53.40 %	12,062	3.77 %	3,714	33.94 %	2.09	11,790	97.75 %	155	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	62	2,213	968	58.67 %	2,674	14.49 %	983	37.35 %	1.89	4,497	168.13 %	145	
Default	Default	100.00 (Default)	С	C to D	63	1,737	562	100.00 %	2,262	100.00 %	541	37.45 %	2.52	5,792	256.12 %	669	
Sub-total		1			64	246,662	273,913	49.06 %	381,050	1.19 %	48,116	34.78 %		168,400	44.19 %	1,466	1,912
Sovereign		1	1				• • • • • • • • • • • • • • • • • • • •										
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	65	181,707	7,306	60.75 %	186,214	0.01 %	1,852	3.92 %	3.08	4,511	2.42 %	3	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	66	184	133	78.36 %	268	0.20 %	118	28.48 %	2.10	72	26.80 %	-	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	67	431	343	40.07 %	548	0.32 %	100	26.03 %	1.99	171	31.22 %	-	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	68	134	28	29.15 %	135	0.62 %	68	25.93 %	2.01	59	43.63 %	-	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	69	87	32	39.52 %	81	1.13 %	79	42.24 %	1.31	64	79.04 %	-	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	70	241	26	42.78 %	251	2.74 %	60	16.55 %	2.84	117	46.54 %	1	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	71	1	-	-	-	13.95 %	3	32.84 %	1.00	-	154.71 %	-	
Default	Default	100.00 (Default)	С	C to D	72	4	-	-	4	100.00 %	5	39.37 %	2.50	19	499.04 %	-	
Sub-total		1			73	182,789	7,868	59.89 %	187,501	0.02 %	2,285	4.07 %		5,013	2.67 %	4	7
Bank	•		•				*										
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	74	9,858	5,583	70.27 %	14,810	0.07 %	218	16.79 %	1.17	1,137	7.67 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	75	2,325	3,872	62.17 %	4,505	0.19 %	101	16.03 %	1.09	528	11.72 %	1	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	76	1,621	1,691	62.72 %	2,337	0.32 %	76	12.28 %	0.95	284	12.16 %	1	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	77	3,268	159	63.94 %	3,357	0.54 %	39	10.86 %	2.32	605	18.03 %	2	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	78	1,761	20	80.93 %	1,567	1.50 %	40	16.86 %	0.84	620	39.60 %	4	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	79	389	33	50.28 %	169	2.75 %	22	22.43 %	0.51	94	55.77 %	1	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	80	11	-	-	11	13.46 %	1	35.00 %	1.00	18	162.79 %	1	
Default	Default	100.00 (Default)	С	C to D	81	-	-	-	-	-	_	-	-	-	_	-	
Sub-total		1			82	19,233	11,358	66.26 %	26,756	0.28 %	497	15.57 %		3,286	12.28 %	12	7
Total (all wholesale portfolios)					83	448,684	293,139	50.02 %	595,307	0.78 %	50,898	24.24 %		176,699	29.68 %	1,482	1,926
	D: 1 0 ::: :: F		- 1 0	B: 1			1 0 11 1				,			.,		,	,

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

⁽⁸⁾ Calculated as the effective maturity in years weighted by EAD.

CR6 - IRB - CREDIT RISK EXPOSU	DE BY BODT	EOLIO AND BE	DANCE DET	All (4) (2) (2)							04 2024						
(\$ millions except as noted)	KE BI FORI	FOLIO AND FL	RANGE - REI	AIL (1) (2) (3)		Original on-	Off-balance				Q4 2021						
(\$ millions except as noted)			Moody's			balance sheet	sheet		EAD post-				Average				
			Investors	Standard &	=	gross	exposures	Average	CRM and	Average	Number of	Average	maturity	D14/4	RWA		
Risk Profile	BMO Rating	BD Sools (9/)	Service implied equivalent	Poor's implied equivalent	LINE #	exposure a	pre-CCF b	CCF (4)	post-CCF d	PD (5)	obligors (6)	LGD (7)	(years)	RWA	density	EL k	Provisions
	BWO Rating	PD Scale (%)	equivalent	equivalent	#	a	ь	С	a	е	<u>'</u>	g	!!	<u> </u>	ì	K	
Canadian insured residential		0.001 .0.15				04.040			11.017		100.001	00.00.0/		450	4.05.0/		
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			2	31,340		-	41,917	[133,801	26.08 %		453	1.05 %		
Low		0.25 to <0.50			3	-	-	-	-	-	-	-		-	-	-	
Low		0.50 to <0.75			4	6,762	-	-	-	-	14,189	-		-	-	-	
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			5 6	2,068 1.520	-	-	-		5,389 4.504	-		:	-		
High		10.00 to <100.00			7	118	-	-	_		509	_			-		
Default		100.00 (Default)			8	110	-	-	-	-	495	-		-	-	-	
Sub-total					9	41,918	-	-	41,917	-	158,887	26.08 %		453	1.05 %	-	5
Canadian uninsured residential		0.00 +- +0.45		1	1 40	00.054	20,400	40.40.0/	00.007	0.00.0/1	454 404	40.04.0/		0.040	0.00.0/	40 [
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			10	69,954 8,687	32,429 1,552	43.12 % 26.95 %	83,937 9,105	0.09 % 0.22 %	454,484 48,678	16.21 % 18.60 %		3,048 771	3.63 % 8.46 %	12 4	
Low		0.25 to <0.50			12	-	-	-	-	-	-	-		-	-		
Low		0.50 to <0.75			13	14,088	23	73.93 %	14,105	0.62 %	39,247	16.52 %		2,230	15.81 %	14	
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			14 15	7,790 4,494	502 91	24.66 % 37.02 %	7,914 4,527	1.18 % 6.65 %	31,036 13,277	16.99 % 13.91 %		1,963 2,499	24.80 % 55.20 %	16 41	
High		10.00 to <100.00			16	288	18	24.02 %	293	43.12 %	1.665	13.57 %		213	72.68 %	16	
Default		100.00 (Default)			17	131	15	19.06 %	134	100.00 %	1,017	10.99 %		168	124.95 %	9	
Sub-total					18	105,432	34,630	42.11 %	120,015	0.70 %	589,404	16.38 %		10,892	9.07 %	112	77
Non-Canadian residential							1	/				/					
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			19 20	1,258 5,449	5,376 49	59.02 % 100.00 %	4,431 5,499	0.04 % 0.17 %	41,701 12,941	67.27 % 20.92 %		388 425	8.76 % 7.72 %	1 2	
Low		0.25 to <0.50			21	492	189	51.42 %	590	0.17 %	5,836	69.55 %		276	46.77 %	2	
Low		0.50 to < 0.75			22	1,063	10	100.00 %	1,073	0.71 %	6,628	30.23 %		335	31.24 %	2	
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			23 24	409 388	24 3	46.85 % 95.65 %	420 391	1.25 % 3.75 %	4,583 2,807	70.18 % 38.09 %		447 465	106.32 % 118.73 %	4 6	
High		10.00 to <100.00			25	130	102	63.00 %	194	24.27 %	1,754	36.14 %		396	204.16 %	18	
Default		100.00 (Default)			26	243	-	56.71 %	243	100.00 %	5,805	42.05 %		732	301.26 %	68	
Sub-total					27	9,432	5,753	59.23 %	12,841	2.58 %	82,055	42.69 %		3,464	26.97 %	103	117
Qualifying revolving retail		0.00 +- +0.45		1		4 400	20.004	FO 74 0/	00.000	0.04.0/1	0.400.445	70.50.0/		500	0.40.0/	0.1	
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			28 29	1,433 605	38,624 2,361	56.71 % 68.65 %	23,339 2,225	0.04 % 0.23 %	3,103,445 314,606	78.52 % 83.20 %		568 232	2.43 % 10.44 %	8 4	
Low		0.25 to <0.50			30	1,963	9,342	37.68 %	5,483	0.29 %	433,980	54.68 %		464	8.46 %	9	
Low		0.50 to <0.75			31	535	954	79.82 %	1,296	0.69 %	200,963	86.11 %		340	26.22 %	8	
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			32 33	2,856 1,905	2,771 1,037	45.55 % 79.13 %	4,118 2,726	1.24 % 4.37 %	332,121 359,431	74.11 % 83.60 %		1,454 2,576	35.32 % 94.52 %	38 99	
High		10.00 to <100.00			34	460	219	61.46 %	594	22.90 %	75,180	71.70 %		1,082	182.05 %	101	
Default		100.00 (Default)			35	54	28	42.34 %	66	100.00 %	4,208	56.47 %		190	287.19 %	33	
Sub-total					36	9,811	55,336	54.28 %	39,847	1.03 %	4,823,934	75.50 %		6,906	17.33 %	300	485
Retail small-and-medium-sized entities		0.00 to <0.15			07	4 500	2.000	75.07.0/	4.540	0.00.0/1	60.335	EC C4 0/		600	40.70.0/	21	
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			37 38	1,502 129	2,999 539	75.97 % 65.17 %	4,542 480	0.08 % 0.19 %	60,325 36,089	56.61 % 89.01 %		623 175	13.72 % 36.39 %	2	
Low		0.25 to <0.50			39	88	285	69.93 %	287	0.44 %	17,520	88.21 %		179	62.40 %	i	
Low		0.50 to <0.75			40	1,973	436	85.56 %	2,269	0.58 %	13,875	58.34 %		1,092	48.13 %	8	
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			41 42	2,110 3,731	617 215	56.02 % 48.28 %	2,362 3,270	1.54 % 4.06 %	43,803 25,181	60.03 % 58.18 %		1,771 2,907	74.96 % 88.91 %	21 80	
High		10.00 to <100.00			43	694	21	76.56 %	686	16.90 %	5,463	54.92 %		778	113.45 %	66	
Default		100.00 (Default)			44	156	3	96.15 %	158	100.00 %	6,052	62.04 %		1,166	738.77 %	12	
Sub-total					45	10,383	5,115	71.76 %	14,054	3.29 %	208,308	59.56 %		8,691	61.85 %	191	172
Other retail		0.00 to <0.15			10	40.700	2.644	40.26.0/	45 700	0.00.0/1	104.000	20.46.6/1		OEF !	4450/	1	
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			46 47	13,730 5,795	3,644 1,119	49.36 % 74.69 %	15,793 6,631	0.08 % 0.20 %	191,000 258,092	20.46 % 73.18 %		655 2.045	4.15 % 30.83 %	2 9	
Low		0.25 to <0.50			48	6,276	2,185	27.60 %	6,879	0.33 %	836,390	44.88 %		1,865	27.11 %	11	
Low		0.50 to <0.75			49	3,301	25	55.38 %	3,134	0.62 %	12,442	19.04 %		511	16.32 %	4	
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			50 51	8,993 1,949	686 33	43.19 % 47.91 %	9,239 1,937	1.37 % 5.15 %	512,974 153,215	46.70 % 41.54 %		5,135 1,246	55.58 % 64.35 %	61 39	
High		10.00 to <100.00			52	1,069	316	32.73 %	1,937	19.28 %	226,904	63.98 %		1,556	132.89 %	142	
Default		100.00 (Default)			53	122	3	54.61 %	121	100.00 %	67,748	45.13 %		372	306.84 %	41	
Sub-total					54	41,235	8,011	45.79 %	44,905	1.43 %	2,258,765	39.40 %		13,385	29.81 %	309	244
Total (all retail portfolios)					55	218,211	108,845	50.87 %	273,579	0.98 %	8,121,353	33.71 %		43,791	16.00 %	1,015	1,100

Total (all retail portfolios) | | 55 | 218,211 | 108,845 | 50.87 % | 273,579 | (1) Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Retail portfolios is at the account level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

															вмо 🗠	Financia	al Group
CR6 - IRB - CREDIT RISK EXPOSUR	RE BY PORTFOLI	O AND PD RANG	SE - WHOLESAL	-E (1) (2) (3)							Q4 2021						
(\$ millions except as noted)			Moody's Investors	Standard & Poor's	LINE	Original on- balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF (4)	EAD post-CRM and post- CCF		Number of obligors (6)	Average LGD (7)	Average maturity (years) (8)	RWA	RWA density	EL	Provision
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied equivalent	#	а	b	С	d	е	f	g	h	i	j	k	I
Corporate																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	56	52,796	98,172	48.47 %	108,938	0.08 %	5,930	34.51 %	2.02	20,710	19.01 %	31	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	57	35,324	47,959	45.27 %	55,670	0.20 %	6,327	35.27 %	2.16	19,009	34.15 %	39	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	58	45,062	44,215	44.99 %	62,880	0.32 %	9,951	35.19 %	2.22	26,874	42.74 %	71	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	59	36,190	33,334	44.61 %	48,925	0.60 %	7,780	33.88 %	2.26	26,860	54.90 %	99	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	60	37,943	27,041	45.44 %	48,155	1.27 %	10,843	34.35 %	2.34	35,373	73.46 %	208	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	61	7,898	6,455	48.83 %	10,430	3.80 %	3,232	33.02 %	2.00	9,823	94.18 %	132	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	62	2,490	978	51.24 %	2,857	14.26 %	958	37.29 %	1.95	4,873	170.56 %	152	
Default	Default	100.00 (Default)	С	C to D	63	1,432	728	100.00 %	2,014	100.00 %	452	36.70 %	2.36	4,510	223.92 %	633	
Sub-total		<u> </u>			64	219,135	258,882	46.63 %	339,869	1.21 %	45,473	34.64 %		148,032	43.56 %	1,365	1,914
Sovereign	•	•	•	•													
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	65	196,638	7,268	60.93 %	201,145	0.01 %	1,798	3.93 %	2.41	4,965	2.47 %	4	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	66	346	139	74.05 %	430	0.20 %	104	16.45 %	1.66	62	14.51 %	-	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	67	305	190	39.86 %	356	0.31 %	89	24.98 %	1.99	107	30.03 %	-	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	68	185	29	29.55 %	180	0.61 %	68	38.53 %	2.06	121	67.12 %	-	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	69	136	106	39.40 %	158	1.12 %	102	27.38 %	1.43	79	49.58 %	-	
_	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	70	211	24	43.68 %	220	2.74 %	58	21.45 %	3.16	136	61.94 %	1	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	71	1	-	-		-	4	_	1.00	-	154.71 %	-	
Default	Default	100.00 (Default)	С	C to D	72	5	-	-	5	100.00 %	3	44.99 %	2.14	30	596.15 %	-	
Sub-total		<u> </u>			73	197,827	7,756	60.18 %	202,494	0.02 %	2,226	4.06 %		5,500	2.72 %	5	7
Bank	•	•	•	•													
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	74	10,155	4,579	72.98 %	14,565	0.07 %	175	17.42 %	1.20	1,109	7.62 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	75	2,005	4,713	61.90 %	4,548	0.19 %	77	15.62 %	1.22	516	11.34 %	1	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	76	1,309	1,766	61.97 %	2,070	0.32 %	74	12.77 %	1.12	283	13.66 %	1	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	77	3,651	145	64.68 %	3,733	0.54 %	28	10.67 %	2.16	638	17.08 %	2	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	78	1,321	37	60.57 %	1,188	1.46 %	40	14.95 %	0.45	369	31.08 %	3	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	79	292	40	91.67 %	136	2.75 %	22	20.72 %	0.41	70	51.67 %	1	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	80	11	-	-	11	-	1	-	1.00	7	62.61 %	-	
Default	Default	100.00 (Default)	С	C to D	81	-	-	-	-	-	-	_	-	-	-	-	
Sub-total		1 ' '			82	18,744	11,280	66.55 %	26,251	0.26 %	417	15.69 %		2,992	11.40 %	10	7
Total (all wholesale portfolios)					83	435,706	277,918	47.82 %	568,614	0.74 %	48,116	22.87 %		156,524	27.53 %	1,380	1,928
(1) Cradit Rick avaluace Counterparty Cradit	Diele Oceanitication I			D. 1			1 0 11	0500/ :	sk woight								

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

⁽³⁾ PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

⁽⁴⁾ Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure pre-conversion factor.

⁽⁵⁾ Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

⁽⁶⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽⁷⁾ Calculated as the obligor LGD or guarantor LGD, where applicable, weighted by EAD.

⁽⁸⁾ Calculated as the effective maturity in years weighted by EAD.

CR	8 - RWA FLOW STATEMENTS OF CREDIT RISK		Q4 2022		Q3 2022				
AN	D COUNTERPARTY CREDIT RISK EXPOSURES (1)	Credit risk	, of which	Counterparty	Credit risk	, of which	Counterparty		
		AIRB	Standardized	credit risk (2)	AIRB	Standardized	credit risk (2)		
(\$ m	nillions)	а	b	С	d	е	f		
1	RWA as at beginning of reporting period	227,199	27,285	17,144	214,657	25,820	19,344		
2	Asset size (3)	(2,260)	(265)	(2,455)	15,500	1,478	(1,808)		
3	Asset quality (4)	(2,278)	5	(155)	(3,336)	3	(364)		
4	Model updates (5)	-	-	-	619	-	-		
5	Methodology and policy (6)	3,261	(6,022)	-	-	-	-		
6	Acquisitions and disposals	-	-	-	-	-	-		
7	Foreign exchange movements	7,815	664	500	(241)	(16)	(28)		
8	Other	-	-	=	-	-	-		
9	RWA as at end of reporting period	233,737	21,667	15,034	227,199	27,285	17,144		

CR	8 - RWA FLOW STATEMENTS OF CREDIT RISK		Q2 2022		Q1 2022					
ΑN	D COUNTERPARTY CREDIT RISK EXPOSURES (1)	Credit risk	, of which	Counterparty	Credit risk	, of which	Counterparty			
		AIRB	Standardized	credit risk (2)	AIRB	Standardized	credit risk (2)			
(\$ r	nillions)	а	b	С	d	е	f			
1	RWA as at beginning of reporting period	221,551	26,561	18,941	200,315	37,388	18,047			
2	Asset size (3)	(1,850)	219	1,310	13,317	1,583	1,012			
3	Asset quality (4)	(5,612)	(7)	(781)	(2,823)	2	(29)			
4	Model updates (5)	(982)	-	-	=	-	-			
5	Methodology and policy (6)	315	(1,060)	-	8,055	(12,672)	-			
6	Acquisitions and disposals	-	-	-	(34)	(291)	-			
7	Foreign exchange movements	1,235	107	(126)	2,721	551	(89)			
8	Other	-	-	-	=	-	-			
9	RWA as at end of reporting period	214,657	25,820	19,344	221,551	26,561	18,941			

CR	8 - RWA FLOW STATEMENTS OF CREDIT RISK		Q4 2021								
ANI	D COUNTERPARTY CREDIT RISK EXPOSURES (1)	Credit risk	, of which	Counterparty							
		AIRB	Standardized	credit risk (2)							
(\$ m	nillions)	а	b	С							
1	RWA as at beginning of reporting period	200,458	35,554	19,865							
2	Asset size (3)	5,245	1,986	(1,190)							
3	Asset quality (4)	(4,208)	21	(548)							
4	Model updates (5)	(280)	-								
5	Methodology and policy (6)	-	-								
6	Acquisitions and disposals	-	-	-							
7	Foreign exchange movements	(900)	(173)	(80)							
8	Other	-	-	-							
9	RWA as at end of reporting period	200,315	37,388	18,047							

- (1) Credit Risk excludes RWA for Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.
- (2) Counterparty Credit Risk includes RWA for derivatives, SFTs, trades cleared through central counterparties and CVA charge.
- (3) Asset size includes organic changes in book size and composition (including new business and maturing loans).
- Asset quality captures the quality of book changes caused by experience such as underlying customer behaviour or demographics, including changes through model calibrations/realignments.
- Model updates include model implementation, change in model scope or any change to address model malfunctions.
- (5) Model updates include model implementation, change in model scope or any change to address model malfunctions.
 (6) Methodology and policy include methodology changes to the calculations driven by regulatory policy changes, such as new or revised regulation.

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1)	(2) (3)		Q4 2	2022			Q3	2022	
		Standa	ırdized	All	RB	Standa	rdized	A	IRB
(\$ millions)	LINE #	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives
Corporate (incl specialized lending and SMEs treated as corporate)	1	1,515	5	422,459	14,586	7,491	81	401,775	13,261
Sovereign	2	2	-	233,930	111	1	-	205,312	179
Bank	3	56	-	21,638	952	37	-	27,506	924
Total Wholesale	4	1,573	5	678,027	15,649	7,529	81	634,593	14,364
Residential mortgages excluding home equity line of credits (HELOCs)	5	503	-	127,520	39,014	513	-	123,507	38,769
HELOCs	6	48	-	61,598	-	52	-	61,393	-
Other retail	7	4,154	431	52,386	1,140	4,201	448	50,464	1,154
Qualifying revolving retail	8	-	-	43,351	-	-	-	44,090	-
Retail SMEs	9	2,056	2	16,831	333	1,870	-	16,167	365
Total Retail	10	6,761	433	301,686	40,487	6,636	448	295,621	40,288
Other assets	11	11,550	-	-	-	11,197	-	-	-
Equity	12	2,739	-	-	-	2,561	-	-	-
Total Bank	13	22,623	438	979,713	56,136	27,923	529	930,214	54,652

	1					0.000							
EXPOSURE COVERED BY CREDIT RISK MITIGATION (1) (2	2) (3)		Q2 2	2022			Q1	2022					
		Standa	ardized	All	RB	Standa	ırdized	Α	IRB				
(\$ millions)	LINE #	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives				
Corporate (incl specialized lending and SMEs treated as corporate)	1	7,147	105	388,227	12,335	8,201	171	381,050	12,272				
Sovereign	2	1	-	202,910	259	1	-	187,501	262				
Bank	3	47	-	28,551	1,085	31	-	26,756	1,045				
Total Wholesale	4	7,195	105	619,688	13,679	8,233	171	595,307	13,579				
Residential mortgages excluding home equity line of credits (HELOCs)	5	550	-	120,382	37,878	594	-	118,755	40,641				
HELOCs	6	60	-	59,611	-	67	-	58,408	-				
Other retail	7	4,225	472	48,234	1,176	3,943	462	46,416	1,234				
Qualifying revolving retail	8	-	-	42,555	-	-	-	42,886	-				
Retail SMEs	9	1,910	-	13,871	360	1,787	-	13,995	478				
Total Retail	10	6,745	472	284,653	39,414	6,391	462	280,460	42,353				
Other assets	11	9,722	-	-	-	10,406	-	-	-				
Equity	12	2,366	-	-	-	2,212	-	-	-				
Total Bank	13	26,028	577	904,341	53,093	27,242	633	875,767	55,932				

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1)	(2) (3)		Q4 2021					
		Standa	ardized	Al	RB			
(\$ millions)	LINE #	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post-CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives			
Corporate (incl specialized lending and SMEs treated as corporate)	1	19,009	1,002	339,869	11,322			
Sovereign	2	234	-	202,494	136			
Bank	3	297	-	26,251	1,069			
Total Wholesale	4	19,540	1,002	568,614	12,527			
Residential mortgages excluding home equity line of credits (HELOCs)	5	628	-	118,223	41,752			
HELOCs	6	73	-	56,550	-			
Other retail	7	4,101	443	44,905	1,276			
Qualifying revolving retail	8	-	-	39,847	-			
Retail SMEs	9	1,705	-	14,054	788			
Total Retail	10	6,507	443	273,579	43,816			
Other assets	11	10,978	-	-	-			
Equity	12	1,828	-	-	-			
Total Bank	13	38,853	1,445	842,193	56,343			

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ Credit risk mitigants herein include only credit derivatives and guarantees. Collateral is reflected in the risk parameters (PDs, LGDs) for AIRB exposures and risk weights for exposures under the Standardized Approach.

⁽³⁾ As at October 31, 2022 the RWA impact of credit derivatives used as CRM techniques is a decrease of \$7 million, April 30, 2022 a decrease of \$7 million, January 31, 2022 a decrease of \$8 million, October 31, 2021 \$\sigma\$nil).

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)	LINE Q4 2022 Q3 2022								
(\$ millions)	#	Canada	U.S.	Other	Total	Canada	U.S.	Other	Total
Corporate (incl specialized lending and SMEs treated as corporate)	1	173,789	237,047	13,138	423,974	167,645	228,084	13,537	409,266
Sovereign	2	75,295	149,050	9,587	233,932	63,796	130,216	11,301	205,313
Bank	3	1,557	7,622	12,515	21,694	5,597	7,298	14,648	27,543
Total Wholesale	4	250,641	393,719	35,240	679,600	237,038	365,598	39,486	642,122
Residential mortgages excluding home equity line of credits (HELOCs)	5	118,464	9,559	-	128,023	115,549	8,471	-	124,020
HELOCs	6	54,900	6,746	=	61,646	55,189	6,256	-	61,445
Other retail	7	43,687	12,853	=	56,540	41,923	12,742	-	54,665
Qualifying revolving retail	8	41,648	1,703	=	43,351	42,583	1,507	-	44,090
Retail SMEs	9	11,669	7,150	68	18,887	11,403	6,569	65	18,037
Total Retail	10	270,368	38,011	68	308,447	266,647	35,545	65	302,257
Other assets	11	8,060	3,211	279	11,550	8,002	2,944	251	11,197
Equity	12	264	2,269	206	2,739	210	2,110	241	2,561
Total Bank	13	529,333	437,210	35,793	1,002,336	511,897	406,197	40,043	958,137

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CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)	LINE		Q2 :	2022			Q1 2	2022	
(\$ millions)	#	Canada	U.S.	Other	Total	Canada	U.S.	Other	Total
Corporate (incl specialized lending and SMEs treated as corporate)	1	163,135	219,213	13,026	395,374	157,720	218,761	12,770	389,251
Sovereign	2	66,649	124,866	11,396	202,911	46,832	131,120	9,550	187,502
Bank	3	5,610	7,867	15,121	28,598	5,065	6,355	15,367	26,787
Total Wholesale	4	235,394	351,946	39,543	626,883	209,617	356,236	37,687	603,540
Residential mortgages excluding home equity line of credits (HELOCs)	5	112,844	8,088	-	120,932	111,649	7,700	-	119,349
HELOCs	6	53,556	6,115	=	59,671	52,484	5,991	-	58,475
Other retail	7	39,974	12,485	=	52,459	38,093	12,266	-	50,359
Qualifying revolving retail	8	41,100	1,455	=	42,555	41,504	1,382	-	42,886
Retail SMEs	9	9,055	6,716	10	15,781	8,830	6,943	9	15,782
Total Retail	10	256,529	34,859	10	291,398	252,560	34,282	9	286,851
Other assets	11	6,489	2,931	302	9,722	7,350	2,823	233	10,406
Equity	12	223	1,842	301	2,366	177	1,760	275	2,212
Total Bank	13	498,635	391,578	40,156	930,369	469,704	395,101	38,204	903,009

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)	LINE		Q4	2021	
(\$ millions)	#	Canada	U.S.	Other	Total
Corporate (incl specialized lending and SMEs treated as corporate)	1	153,324	194,360	11,194	358,878
Sovereign	2	70,831	119,297	12,600	202,728
Bank	3	5,106	6,625	14,817	26,548
Total Wholesale	4	229,261	320,282	38,611	588,154
Residential mortgages excluding home equity line of credits (HELOCs)	5	111,127	7,724	-	118,851
HELOCs	6	50,805	5,818	-	56,623
Other retail	7	36,903	12,103	-	49,006
Qualifying revolving retail	8	39,847	-	-	39,847
Retail SMEs	9	8,619	7,132	8	15,759
Total Retail	10	247,301	32,777	8	280,086
Other assets	11	7,582	2,906	490	10,978
Equity	12	163	1,461	204	1,828
Total Bank	13	484,307	357,426	39,313	881,046

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

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CREDIT RISK EXPOSURE BY MAJOR ASSET CLASS (1)			Q4 2022			Q3 2022				Q2 2022	Q1 2022	Q4 2021
				Other off-				Other off-				
L	NE		Commitments	balance			Commitments	balance				
(\$ millions)	#	Drawn	(undrawn) (2)	sheet items (3)	Total	Drawn	(undrawn) (2)	sheet items (3)	Total	Total	Total	Total
Corporate (incl specialized lending and SMEs treated as corporate)	1	284,551	115,569	23,854	423,974	268,597	117,867	22,802	409,266	395,374	389,251	358,878
Sovereign	2	228,757	3,710	1,465	233,932	200,676	3,063	1,574	205,313	202,911	187,502	202,728
Bank	3	13,254	6,633	1,807	21,694	19,585	6,205	1,753	27,543	28,598	26,787	26,548
Total Wholesale	4	526,562	125,912	27,126	679,600	488,858	127,135	26,129	642,122	626,883	603,540	588,154
Residential mortgages excluding home equity line of credits (HELOCs)	5	127,768	224	31	128,023	123,851	132	37	124,020	120,932	119,349	118,851
HELOCs	6	42,644	19,002	-	61,646	41,820	19,625	-	61,445	59,671	58,475	56,623
Other retail	7	52,358	4,182	-	56,540	50,571	4,094	-	54,665	52,459	50,359	49,006
Qualifying revolving retail	8	9,313	34,038	-	43,351	10,591	33,499	-	44,090	42,555	42,886	39,847
Retail SMEs	9	13,590	5,252	45	18,887	12,935	5,059	43	18,037	15,781	15,782	15,759
Total Retail	10	245,673	62,698	76	308,447	239,768	62,409	80	302,257	291,398	286,851	280,086
Other assets	11	11,550	-	-	11,550	11,197	-	-	11,197	9,722	10,406	10,978
Equity	12	2,414	325	-	2,739	2,257	304	-	2,561	2,366	2,212	1,828
Total Bank	13	786,199	188,935	27,202	1,002,336	742,080	189,848	26,209	958,137	930,369	903,009	881,046

CREDIT RISK BY RESIDUAL CONTRACT MATURITY			Q4 2	2022			Q3 :	2022	Q2 2022	Q1 2022	Q4 2021	
BREAKDOWN (1)				Other off-				Other off-				
	LINE		Commitments	balance			Commitments	balance				
(\$ millions)	#	Drawn	(undrawn) (2)	sheet items (3)	Total	Drawn	(undrawn) (2)	sheet items (3)	Total	Total	Total	Total
Up to 1 year	1	291,824	105,917	20,654	418,395	262,489	105,521	20,071	388,081	378,399	351,449	380,906
1 to 5 years	2	390,712	75,854	6,491	473,057	377,809	77,492	6,063	461,364	444,629	438,112	400,351
Greater than 5 years	3	103,663	7,164	57	110,884	101,782	6,835	75	108,692	107,341	113,448	99,789
Total Bank	4	786,199	188,935	27,202	1,002,336	742,080	189,848	26,209	958,137	930,369	903,009	881,046

CREDIT DICK EXPOSURE BY INDUCTRY (4)			-				-	2000	00.000	04.0000	04.0004	
CREDIT RISK EXPOSURE BY INDUSTRY (1)	Q4 2022					Q3 2		Q2 2022	Q1 2022	Q4 2021		
				Other off-				Other off-				
(a	LINE	_	Commitments	balance			Commitments	balance				
(\$ millions)	#	Drawn	(undrawn) (2)	sheet items (3)	Total	Drawn	(undrawn) (2)	sheet items (3)	Total	Total	Total	Total
Agriculture	1	13,469	2,034	76	15,579	12,994	2,302	72	15,368	15,102	14,935	14,752
Communications	2	882	1,760	370	3,012	940	1,903	308	3,151	3,221	3,801	4,115
Construction	3	5,329	3,932	1,170	10,431	4,947	3,510	1,146	9,603	9,303	9,049	8,876
Financial	4	172,721	22,535	7,887	203,143	159,884	29,681	7,473	197,038	190,825	185,069	220,904
Forest products	5	1,031	896	251	2,178	904	840	204	1,948	1,703	1,598	1,487
Government	6	99,498	1,863	434	101,795	95,880	1,512	434	97,826	96,950	99,019	69,213
Individual	7	245,673	62,698	76	308,447	239,768	62,408	80	302,256	291,399	286,851	280,087
Manufacturing	8	36,307	20,237	2,067	58,611	33,987	19,533	1,900	55,420	52,170	50,498	45,348
Mining	9	3,460	4,795	1,393	9,648	3,185	4,463	1,436	9,084	9,187	8,968	7,559
Oil and Gas	10	4,084	4,967	1,341	10,392	3,836	5,129	1,262	10,227	11,536	11,957	12,922
Other	11	28,344	815	278	29,437	22,222	796	329	23,347	27,054	18,534	18,471
Real estate	12	56,027	13,325	1,295	70,647	53,347	12,010	1,310	66,667	63,263	62,319	57,019
Retail trade	13	24,046	5,235	548	29,829	21,142	5,197	578	26,917	26,408	24,192	21,515
Service industries	14	54,756	18,603	3,169	76,528	52,088	18,226	2,997	73,311	68,890	67,545	63,519
Transportation	15	10,354	3,641	1,710	15,705	9,505	3,281	1,490	14,276	13,732	12,912	13,711
Utilities	16	9,966	13,740	4,364	28,070	8,921	12,249	4,084	25,254	24,332	22,263	21,250
Wholesale trade	17	20,252	7,859	773	28,884	18,530	6,808	1,106	26,444	25,294	23,499	20,298
Total Bank	18	786,199	188,935	27,202	1,002,336	742,080	189,848	26,209	958,137	930,369	903,009	881,046

⁽¹⁾ Credit Risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement Risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽²⁾ The EAD on the difference between the authorized and drawn amounts (e.g. the unused portion of a line of credit) after the application of the credit conversion factor.

⁽³⁾ Includes items such as standby letters of credit and documentary credits after the application of the credit conversion factor.

CCR1 - ANALYSIS OF COUNTERPARTY CREDIT		Q4 2022										
RISK (CCR) EXPOSURE BY APPROACH (1)	Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)		EAD post-CRM	RWA						
(\$ millions except as noted)	а	b	С	d	е	f						
1 SA-CCR (for derivatives)	11,274	15,664		1.4	37,713	7,618						
2 Internal Model Method (for derivatives and SFTs)			-	-	-	-						
3 Simple Approach for credit risk mitigation (for SFTs)					-	-						
4 Comprehensive Approach for credit risk mitigation (for SFTs)					27,484	2,869						
5 VaR for SFTs					-	-						
6 Total						10,487						

CC	R1 - ANALYSIS OF COUNTERPARTY CREDIT	Q3 2022										
RIS	K (CCR) EXPOSURE BY APPROACH (1)	Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)	Alpha used for computing regulatory EAD	EAD post-CRM	RWA					
(\$ m	illions except as noted)	а	b	С	d	е	f					
1	SA-CCR (for derivatives)	11,088	16,374		1.4	38,275	8,428					
2	Internal Model Method (for derivatives and SFTs)			-	-	-	-					
3	Simple Approach for credit risk mitigation (for SFTs)					-	-					
4	Comprehensive Approach for credit risk mitigation (for SFTs)					31,578	3,844					
5	VaR for SFTs					-	-					
6	Total						12,272					

CCI	R1 - ANALYSIS OF COUNTERPARTY CREDIT	Q2 2022										
RIS	K (CCR) EXPOSURE BY APPROACH (1)	Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)	Alpha used for computing regulatory EAD	EAD post-CRM	RWA					
(\$ m	illions except as noted)	а	b	С	d	е	f					
1	SA-CCR (for derivatives)	13,591	17,000		1.4	42,827	9,584					
2	Internal Model Method (for derivatives and SFTs)			-	-	-	-					
3	Simple Approach for credit risk mitigation (for SFTs)					-	-					
4	Comprehensive Approach for credit risk mitigation (for SFTs)					33,036	4,179					
5	VaR for SFTs					-	-					
6	Total						13,763					

CCI	R1 - ANALYSIS OF COUNTERPARTY CREDIT	Q1 2022										
RISK (CCR) EXPOSURE BY APPROACH (1)		Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)	Alpha used for computing regulatory EAD	EAD post-CRM	RWA					
(\$ m	illions except as noted)	а	b	С	d	е	f					
1	SA-CCR (for derivatives)	9,178	17,864		1.4	37,722	9,521					
2	Internal Model Method (for derivatives and SFTs)			-	-	-	-					
3	Simple Approach for credit risk mitigation (for SFTs)					-	-					
4	Comprehensive Approach for credit risk mitigation (for SFTs)					32,527	3,989					
5	VaR for SFTs					-	-					
6	Total						13,510					

CC	R1 - ANALYSIS OF COUNTERPARTY CREDIT	Q4 2021										
RIS	RISK (CCR) EXPOSURE BY APPROACH (1)		Potential future exposure	Effective Expected Positive Exposure (EEPE)	Alpha used for computing regulatory EAD	EAD post-CRM	RWA					
(\$ m	illions except as noted)	а	b	С	d	е	f					
1	SA-CCR (for derivatives)	9,617	17,595		1.4	37,972	9,703					
2	Internal Model Method (for derivatives and SFTs)			-	-	-	-					
3	Simple Approach for credit risk mitigation (for SFTs)					-	-					
4	Comprehensive Approach for credit risk mitigation (for SFTs)					32,194	4,247					
5	VaR for SFTs					-	-					
6	Total						13,950					

⁽¹⁾ Excludes credit valuation adjustment charge and exposures cleared through a central counterparty.

BMO (A) Financial Group

СС	R2 - CREDIT VALUATION ADJUSTMENT (CVA)	Q4 2	2022	Q3 2022		
CA	PITAL CHARGE	EAD post-CRM	RWA	EAD post-CRM	RWA	
(\$ m	illions)	а	b	С	d	
	Total portfolios subject to the Advanced CVA capital charge	-	-	-	-	
1	(i) VaR component (including the 3×multiplier)		-		-	
2	(ii) Stressed VaR component (including the 3×multiplier)		-		-	
3	All portfolios subject to the Standardized CVA capital charge	26,395	3,633	26,913	4,077	
4	Total subject to the CVA capital charge	26,395	3,633	26,913	4,077	

СС	R2 - CREDIT VALUATION ADJUSTMENT (CVA)	Q2 2	2022	Q1 2022		
CA	PITAL CHARGE	EAD post-CRM	RWA	EAD post-CRM	RWA	
(\$ n	nillions)	а	b	С	d	
	Total portfolios subject to the Advanced CVA capital charge	-	-	-	-	
1	(i) VaR component (including the 3×multiplier)		-		-	
2	(ii) Stressed VaR component (including the 3×multiplier)		-		-	
3	All portfolios subject to the Standardized CVA capital charge	29,979	4,804	26,501	4,378	
4	Total subject to the CVA capital charge	29,979	4,804	26,501	4,378	

СС	R2 - CREDIT VALUATION ADJUSTMENT (CVA)	Q4 2021				
CA	PITAL CHARGE	EAD post-CRM	RWA			
(\$ m	illions)	а	b			
	Total portfolios subject to the Advanced CVA capital charge	-	-			
1	(i) VaR component (including the 3×multiplier)		-			
2	(ii) Stressed VaR component (including the 3×multiplier)		-			
3	All portfolios subject to the Standardized CVA capital charge	26,668	3,317			
4	Total subject to the CVA capital charge	26,668	3,317			

								В	BMO 🌥 Fina	incial Group
CCR3 - STANDARDIZED APPROACH - CCR EXPOSURES BY R	REGULATORY									
PORTFOLIO AND RISK WEIGHTS (1)						Q4 2022				
(\$ millions)					Risk V	Veight				
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Regulatory portfolio	#	а	b	С	d	е	f	g	h	i
Sovereigns	1	-	-	-	-	-	-	-	-	-
Non-central government public sector entities (PSEs)	2	-	-	-	-	-	-	-	-	-
Multilateral development banks (MDBs)	3	-	-	-	-	-	-	-	-	-
Banks	4	-	-	52	-	-	-	-	-	52
Securities firms	5	-	-	287	-	-	-	-	-	287
Corporates	6	-	-	-	179	-	215	-	-	394
Regulatory retail portfolios	7	-	-	-	-	-	-	-	-	-
Secured by residential property	8	-	-	-	-	-	-	-	-	-
Secured by commercial real estate	9	-	-	-	-	-	-	-	-	-
Equity	10	-	-	-	-	-	-	-	-	-
Defaulted exposures	11	-	-	-	-	-	-	-	-	-
Higher-risk categories (2)	12	-	-	-	-	-	-	-	-	-
Other assets	13	-	-	-	-	-	-	-	-	-
Total	14	-	-	339	179	-	215	-	-	733

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES BY R	EGULATORY									
PORTFOLIO AND RISK WEIGHTS (1)						Q3 2022				
(\$ millions)		Risk Weight								
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Regulatory portfolio	#	а	b	С	d	е	f	g	h	i
Sovereigns	1	-	-	-	-	-	-	-	-	-
Non-central government public sector entities (PSEs)	2	-	-	2	-	-	-	-	-	2
Multilateral development banks (MDBs)	3	-	-	-	-	-	-	-	-	-
Banks	4	-	-	76	-	-	5	-	-	81
Securities firms	5	-	-	377	-	-	-	-	-	377
Corporates	6	-	-	-	78	-	212	-	-	290
Regulatory retail portfolios	7	-	-	-	-	-	-	-	-	-
Secured by residential property	8	-	-	-	-	-	-	-	-	-
Secured by commercial real estate	9	-	-	-	-	-	-	-	-	-
Equity	10	-	-	-	-	-	-	-	-	-
Defaulted exposures	11	-	-	-	-	-	-	-	-	-
Higher-risk categories (2)	12	-	-	-	-	-	-	-	-	-
Other assets	13	-	-	-	-					
Total	14	-	-	455	78	-	217	-	-	750

⁽¹⁾ Excludes credit valuation adjustment charge and exposures cleared through a central counterparty.

⁽²⁾ Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES	BY REGULATO	RY							вмо 👛 г	inancial Group
PORTFOLIO AND RISK WEIGHTS (1)						Q2 2022				
(\$ millions)					Risk V	Veight				
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Regulatory portfolio	#	а	b	С	d	е	f	g	h	i
Sovereigns Non-central government public sector entities (PSEs) Multilateral development banks (MDBs)	1 2	-	-	-		- -		- -	- -	
Banks Securities firms	4 5	- -	- -	53 345		- - -	- -	- - -	- - -	53 345
Corporates Regulatory retail portfolios Secured by residential property	6 7 8	- - -	- - -	- - -	2 -	- - -	147	- -	- - -	149
Secured by commercial real estate Equity Defaulted exposures	9 10	-	-	-	- -	- -	-	-	- -	
Higher-risk categories (2) Other assets	12 13		- - -	- - -	- - -		-	1 1 1	-	- -
Total	14	-	-	398	2		147	1	-	547

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES	BY REGULATOR	RY								
PORTFOLIO AND RISK WEIGHTS (1)						Q1 2022				
(\$ millions)					Risk V	Veight				
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Regulatory portfolio	#	а	b	С	d	е	f	g	h	i
Sovereigns	1	-	-	-	-	-	-	-	-	-
Non-central government public sector entities (PSEs)	2	-	-	1	-	-	-	-	-	1
Multilateral development banks (MDBs)	3	-	-	-	-	-	-	-	-	
Banks Securities firms	4	-	-	57 308	-	-	-	-	-	5/
	5	-	-	300	-	-	125	-	-	308 126
Corporates Regulatory retail portfolios	0 7	-	-	-	I	-	125	-	-	120
Regulatory retail portfolios Secured by residential property	ν ο	-	-	-	-	-	_	-	_	- 1
Secured by commercial real estate	å	- []	- [[]	_]]]]
Equity	10	- 1			_	_		1]]
Defaulted exposures	11	_	_	_	_	_	_	_	_	_
Higher-risk categories (2)	12	_	_	_	_	_	_	_	_	_
Other assets	13	-	-	-	_	-	-	_	_	-
Total	14	-	-	366	1	-	125	-	-	492

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES	BY REGULATO	RY								
PORTFOLIO AND RISK WEIGHTS (1)						Q4 2021				
(\$ millions)					Risk \	Weight				
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Regulatory portfolio	#	а	b	С	d	е	f	g	h	i
Sovereigns Non-central government public sector entities (PSEs) Multilateral development banks (MDBs) Banks Securities firms Corporates Regulatory retail portfolios Secured by residential property Secured by commercial real estate Equity Defaulted exposures Higher-risk categories (2)	1 2 3 4 5 6 7 8 9 10 11 12		-	559 311 - - - - - -	- - - - - - - - - - - - - - - - - - -	-	327	3	- - - - - - - - - - - - - - - - - - -	- - 559 311 327 - - - - 3
Other assets Total	13 14	-	-	- 874	-	-	327	3	-	1,204

⁽¹⁾ Excludes credit valuation adjustment charge and exposures cleared through a central counterparty. (2) Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).



CCR4 - IRB - CCR EXPOSURES BY PORTF	OLIO AND PD SCAL	.E							Q4 2022			
(\$ millions except as noted)			Moody's Investors Service	Standard & Poor's	LINE	EAD post- CRM	Average PD (1)	Number of obligors (2)	Average LGD (3)	Average maturity (years) <i>(4)</i>	RWA	RWA density
Risk Profile	BMO Rating	PD scale (%)	implied equivalent	implied equivalent	#	а	b	С	d	е	f	g
Corporate												
Investment grade		0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	17,737	0.06 %	3,793	29.03 %	1.04	2,006	11.31 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	2,894	0.19 %	574	35.46 %	1.55	865	29.90 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	5,356	0.32 %	534	25.85 %	1.24	1,452	27.11 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	2,288	0.54 %	464	39.83 %	0.78	1,290	56.39 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	856	1.23 %	591	40.04 %	0.93	694	81.03 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	233	2.90 %	248	43.49 %	1.63	283	121.13 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	7	15.43 %	13	44.96 %	3.23	17	237.04 %
Default	Default	100.00 (Default)	С	C to D	8	-	100.00 %	2	44.00 %	1.00	-	583.00 %
Sub-total					9	29,371	0.22 %	6,219	30.36 %		6,607	22.49 %
Sovereign	•	•	•	•	•	•	•	•			•	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	10	17,770	0.03 %	184	7.69 %	1.62	411	2.31 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	55	0.19 %	6	39.72 %	1.05	15	27.37 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	53	0.32 %	8	33.47 %	0.56	15	28.92 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	-	0.54 %	1	15.00 %	1.00	-	19.21 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	3	1.41 %	8	46.58 %	0.38	2	82.58 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	15	1	9.70 %	1	40.00 %	1.00	1	163.52 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	17	-	-	-	-	-	-	-
Sub-total					18	17,882	0.03 %	208	7.87 %		444	2.49 %
Bank	•	•	•	•		•	•				•	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	19	14,886	0.06 %	314	34.67 %	1.28	2,248	15.10 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	1,310	0.19 %	164	39.29 %	0.89	405	30.89 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	733	0.32 %	52	34.04 %	0.67	226	30.77 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	184	0.54 %	19	38.99 %	0.36	96	52.04 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	94	1.15 %	10	48.63 %	0.66	86	91.79 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	4	2.74 %	3	32.30 %	1.00	3	81.06 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	25	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	26	-	-	-	-	-	-	-
Sub-total					27	17,211	0.09 %	562	35.12 %		3,064	17.80 %
Total (all wholesale portfolios)					28	64,464	0.13 %	6,989	25.39 %		10,115	15.69 %
(1) Calculated as obligan PD weighted by EAD		1		-1	1							

⁽¹⁾ Calculated as obligor PD weighted by EAD.

⁽²⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽³⁾ Calculated as the obligor LGD weighted by EAD.

⁽⁴⁾ Calculated as the obligor effective maturity in years weighted by EAD.



CCR4 - IRB - CCR EXPOSURES BY PORTE	OLIO AND PD SCAL	F							Q3 2022			
(\$ millions except as noted)	OLIO AND FD SCAL		Moody's Investors Service	Standard & Poor's	LINE	EAD post- CRM	Average PD	Number of obligors (2)	Average LGD (3)	Average maturity (years) (4)	RWA	RWA density
Risk Profile	BMO Rating	PD scale (%)	implied equivalent	implied equivalent	#	а	b	С	d	е	f	g
Corporate												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	15,435	0.06 %	3,681	29.78 %	1.01	1,789	11.59 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	3,577	0.19 %	635	33.96 %	1.49	1,018	28.45 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	8,305	0.32 %	522	22.44 %	1.12	1,909	22.98 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	2,905	0.54 %	461	36.59 %	0.92	1,525	52.50 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	1,689	1.24 %	602	40.02 %	1.05	1,417	83.87 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	361	2.97 %	280	43.94 %	1.83	446	123.56 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	12	15.45 %	11	40.32 %	1.32	24	193.85 %
Default	Default	100.00 (Default)	С	C to D	8	1	100.00 %	4	42.07 %	1.21	4	557.40 %
Sub-total		, ,			9	32,285	0.29 %	6,196	29.67 %		8,132	25.19 %
Sovereign	_	•					'					
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	10	17,002	0.02 %	175	5.73 %	1.46	308	1.81 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	563	0.19 %	17	39.43 %	0.20	114	20.17 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	23	0.32 %	7	32.19 %	0.57	6	27.66 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	1	0.54 %	2	30.53 %	0.40	-	32.49 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	7	1.02 %	9	47.06 %	0.51	5	73.82 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	15	1	9.70 %	7	40.00 %	1.00	1	163.52 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	17	-	-	-	-	-	-	-
Sub-total					18	17,597	0.03 %	217	6.86 %		434	2.47 %
Bank					1							
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	19	16,977	0.06 %	332	34.58 %	1.21	2,559	15.07 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	1,335	0.19 %	182	39.71 %	0.86	417	31.21 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	750	0.32 %	51	35.08 %	0.48	244	32.58 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	81	0.54 %	20	38.32 %	0.50	43	53.05 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	78	1.55 %	10	54.21 %	0.34	97	123.74 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	-	2.74 %	3	35.00 %	1.00	-	87.85 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	25	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	26	-	-	-	-	-	-	-
Sub-total					27	19,221	0.09 %	598	35.05 %		3,360	17.48 %
Total (all wholesale portfolios)					28	69.103	0.17 %	7.011	25.36 %		11.926	17.26 %

⁽¹⁾ Calculated as obligor PD weighted by EAD.

⁽²⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽³⁾ Calculated as the obligor LGD weighted by EAD.

⁽⁴⁾ Calculated as the obligor effective maturity in years weighted by EAD.

CCR4 - IRB - CCR EXPOSURES BY PORTE	OLIO AND PD SCAL	F							Q2 2022			
(\$ millions except as noted)	OLIO AND PD SCAI	-6							Q2 2022	Average		
(¢ minions shoops do notes)			Moody's Investors Service	Standard & Poor's	LINE	EAD post- CRM	Average PD (1)	Number of obligors (2)	Average LGD (3)	maturity (years) (4)	RWA	RWA density
Risk Profile	BMO Rating	PD scale (%)	implied equivalent	implied equivalent	#	а	b	С	е	е	f	g
Corporate												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	17,546		3,701	29.72 %	0.89	1,814	10.34 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	2,611	0.19 %	514	38.29 %	1.50	826	31.61 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	8,135	0.32 %	615	25.09 %	1.13	2,082	25.60 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	5,066	0.54 %	604	32.99 %	1.11	2,419	47.75 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	2,161	1.17 %	464	34.62 %	1.03	1,508	69.77 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	1,035	2.97 %	271	25.34 %	1.33	724	69.99 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	14	15.41 %	13	41.10 %	1.54	29	201.67 %
Default	Default	100.00 (Default)	С	C to D	8	2	100.00 %	6	36.82 %	2.28	9	487.82 %
Sub-total					9	36,570	0.35 %	6,188	29.93 %		9,411	25.73 %
Sovereign	<u>'</u>	1	•	•	•	•		'		'	<u>'</u>	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	10	17,717	0.03 %	193	10.56 %		404	2.28 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	1,027	0.19 %	16	39.99 %	0.12	203	19.75 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	6	0.32 %	7	31.70 %	0.11	1	23.54 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	-	0.54 %	2	15.00 %	1.00	-	19.21 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	3	1.11 %	8	51.86 %	0.13	2	78.64 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	15	1	9.70 %	7	40.00 %	1.00	1	163.52 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	17	-	-	-	-	-	-	-
Sub-total					18	18,754	0.04 %	233	12.19 %		611	3.26 %
Bank		•	•		•							
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	19	17,273	0.07 %	334	34.81 %	1.31	2,757	15.96 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	1,916	0.19 %	117	34.68 %	0.52	428	22.37 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	584	0.32 %	103	33.84 %	0.41	160	27.49 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	159	0.56 %	16	42.31 %	1.25	98	61.98 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	53	1.47 %	13	51.40 %	0.19	59	110.15 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	7	2.74 %	3	55.55 %	0.14	9	125.48 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	25	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	26	-	-	-	-	-	-	-
Sub-total					27	19,992	0.10 %	586	34.88 %		3,511	17.57 %
Total (all wholesale portfolios)					28	75,316	0.21 %	7.007	26.82 %		13,533	17.97 %

⁽¹⁾ Calculated as obligor PD weighted by EAD.

⁽²⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽³⁾ Calculated as the obligor LGD weighted by EAD.

⁽⁴⁾ Calculated as the obligor effective maturity in years weighted by EAD.



CCR4 - IRB - CCR EXPOSURES BY PORTF	OLIO AND PD SCAL	.E							Q1 2022			
(\$ millions except as noted)			Moody's Investors Service	Standard & Poor's	LINE	EAD post- CRM	Average PD (1)	Number of obligors (2)	Average LGD (3)	Average maturity (years) <i>(4)</i>	RWA	RWA density
Risk Profile	BMO Rating	PD scale (%)	implied equivalent	implied equivalent	#	а	b	С	d	е	f	g
Corporate												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	17,070	0.06 %	3,412	28.97 %	0.87	1,707	10.00 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	1,584	0.19 %	490	37.39 %	1.60	491	31.03 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	3,837	0.32 %	501	35.59 %	1.59	1,585	41.31 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	6,092	0.57 %	712	27.25 %	1.24	2,509	41.19 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	3,209	1.23 %	458	32.78 %	1.21	2,184	68.04 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	1,048	2.98 %	269	32.37 %	1.62	964	91.94 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	6	14.37 %	15	46.18 %	2.34	12	208.98 %
Default	Default	100.00 (Default)	С	C to D	8	8	100.00 %	7	37.74 %	2.33	38	500.00 %
Sub-total					9	32,854	0.43 %	5,864	30.32 %		9,490	28.89 %
Sovereign		•						<u>'</u>			'	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	10	17,395	0.03 %	195	8.89 %	1.37	436	2.51 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	123	0.19 %	6	24.43 %	0.45	19	15.48 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	11	0.32 %	5	36.60 %	0.09	3	26.51 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	17	0.55 %	5	38.55 %	0.54	7	42.98 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	3	1.49 %	5	55.00 %	0.02	3	93.62 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	15	-	9.70 %	1	40.00 %	1.00	-	163.52 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	17	-	-	-	-	-	-	-
Sub-total					18	17,549	0.03 %	217	9.05 %		468	2.67 %
Bank	<u>'</u>	•	•	•	•	•		•	•	•	<u>'</u>	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	19	16,268	0.06 %	347	34.82 %	1.31	2,421	14.88 %
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	1,808	0.19 %	117	33.26 %	0.72	426	23.57 %
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	1,024	0.32 %	57	35.30 %	0.64	313	30.54 %
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	145	0.54 %	73	35.57 %	0.54	70	48.41 %
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	43	1.59 %	13	50.49 %	0.44	47	109.93 %
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	66	2.74 %	10	45.19 %	1.00	75	113.42 %
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	25	-	-	-	-	-	-	-
Default	Default	100.00 (Default)	С	C to D	26	-	-	-	-	-	-	-
Sub-total					27	19,354	0.10 %	617	34.78 %		3,352	17.32 %
Total (all wholesale portfolios)					28	69,757	0.24 %	6,698	26.20 %		13,310	19.08 %
(4) Coloulated as ablines DD socialited by EAF		1				, .		-,			-,	

⁽¹⁾ Calculated as obligor PD weighted by EAD.

⁽²⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽³⁾ Calculated as the obligor LGD weighted by EAD.

⁽⁴⁾ Calculated as the obligor effective maturity in years weighted by EAD.



Risk Profile													
Risk Profile BMO Rating PD scale (%) PD sca	CCR4 - IRB - CCR EXPOSURES BY PORTF	OLIO AND PD SCAL	.E							Q4 2021			
Corporate	(\$ millions except as noted)			Service							maturity	RWA	
Investment grade	Risk Profile	BMO Rating	PD scale (%)	implied equivalent	implied equivalent	#	а	b	С	d	е	f	g
Investment grade 1-5, 1-6	Corporate												
Investment grade 1-6, 1-7	Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	15,784	0.06 %	3,471	29.59 %	0.86	1,685	10.68 %
Investment grade to Non-investment grade Non-inves	Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	1,866	0.19 %	413	39.55 %	1.66	614	32.91 %
Non-investment grade	Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	3,694	0.32 %	506	36.53 %	1.31	1,451	39.27 %
Non-investment grade S-1, S-2, S-3 0,75 to <2.50 Ba1 to Ba3 BB+ to BB- 5 4,233 1,20 % 615 30.48 % 129 2,648 62.55 % Non-investment grade to Watchlist S-3, S-4, P-1, P-2 2,50 to <10.00 Ba so Caal to Ca B- to CC 7 18 13.51 % 22 41.31 % 1.88 36 196.01 % Sub-total 10.00 to <100.00 C C to D 8 10 100.00 % 8 42.07 % 1.69 55 557.41 % Sub-total Sub-total 9 33.883 0.49 % 5,866 30.47 % 1.69 55 557.41 % Sub-total 10.00 to <100.00 Sub-total 9 33.883 0.49 % 5,866 30.47 % 1.69 55 557.41 % Sub-total 10.00 to <100.00 Sub-total 9 33.883 0.49 % 5,866 30.47 % 1.69 55 557.41 % 30.48 % 30.49 % 3	Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	7,160	0.57 %	555	27.78 %	1.34	3,112	43.47 %
Watchilist Default De	Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	4,233	1.20 %	615	30.48 %	1.29	2,648	62.55 %
Default Default Default 100.00 (Default) C C to D 8 10 100.00 % 8 42.07 % 1.69 56 557.41 %	Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	1,118	3.40 %	276	24.58 %	1.36	773	69.12 %
Sub-total 9 33.883 0.49 % 5.866 30.47 % 10.375 30.62 % Sovereign Investment grade	Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	18	13.51 %	22	41.31 %	1.88	36	196.01 %
Sovereign	Default	Default	100.00 (Default)	С	C to D	8	10	100.00 %	8	42.07 %	1.69	56	557.41 %
Investment grade I-1, I-2, I-3, I-4, I-5 0.00 to <0.15 Aaa to Baa1 AAA to BBB+ 10 15,960 0.03 % 209 8.67 % 1.34 376 2.36 % Investment grade I-5, I-6 0.15 to <0.25 Baa1 to Baa2 BBB+ to BBB 11 108 0.19 % 7 28.70 % 0.53 20 18.38 % Investment grade I-6, I-7 0.25 to <0.50 Baa2 to Baa3 BBB to BBB- 12 19 0.32 % 6 27.85 % 0.43 4 21.21 % Investment grade I-7, S-1 0.50 to <0.75 Baa3 to Baa1 BBB- to BB- 13 6 0.56 % 6 33.70 % 1.11 2 40.70 % Investment grade I-7, S-1 0.50 to <0.75 Baa3 to Ba1 BBB- to BB- 14 1 1.32 % 6 54.99 % 0.03 1 BBB- to BB- 18 16.00 % 1.00 %	Sub-total					9	33,883	0.49 %	5,866	30.47 %		10,375	30.62 %
Investment grade I-5, I-6 0.15 to <0.25 Baa1 to Baa2 BBB+ to BBB 11 108 0.19 % 7 28.70 % 0.53 20 18.38 % Investment grade I-6, I-7 0.25 to <0.50 Baa2 to Baa3 BBB to BBB- 12 19 0.32 % 6 27.85 % 0.43 4 21.21 % Investment grade to Non-investment grade I-7, S-1 0.50 to <0.75 Baa3 to Ba1 BBB- to BB+ 13 6 0.56 % 6 33.37 % 1.11 2 40.70 % Non-investment grade S-1, S-2, S-3 0.75 to <2.50 Baa3 to Ba1 BBB- to BB- 14 1 1.32 % 6 54.99 % 0.03 1 88.44 % Non-investment grade to Watchlist S-3, S-4, P-1, P-2 2.50 to <10.00 Ba3 to Caa1 BB- to B- 15 - 7.56 % 2 40.00 % 1.00 - 145.72 % Watchlist Default Default Default Do.00 (Default) C C to D 17	Sovereign	<u>'</u>	•	1	<u>'</u>		•	•			,	•	
Investment grade Investment grade to Non-investment grade to Watchlist Non-investment grade to Watchlist S-3, S-4, P-1, P-2 Sub-total I-5, I-6 I-7, S-1 0.50 to <0.75 Baa1 to Ba3 BBB to BBB- 13 BBB- to BB- 14 1 1.32 % 6 6 54.99 % 0.03	Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	10	15,960	0.03 %	209	8.67 %	1.34	376	2.36 %
Investment grade to Non-investment grade I-7, S-1 0.50 to <0.75 Baa3 to Ba1 BBB- to BB- 13 6 0.56 % 6 33.70 % 1.11 2 40.70 %	Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	108	0.19 %	7	28.70 %	0.53	20	18.38 %
Non-investment grade	Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	19	0.32 %	6	27.85 %	0.43	4	21.21 %
Non-investment grade to Watchlist	Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	6	0.56 %	6	33.70 %	1.11	2	40.70 %
Watchlist P-2, P-3 10.00 to <100.00 Caa1 to Ca B- to CC 16 -	Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	1	1.32 %	6	54.99 %	0.03	1	88.44 %
Default Default Default 100.00 (Default) C C to D 17	Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	15	-	7.56 %	2	40.00 %	1.00	-	145.72 %
Sub-total 18 16,094 0.03 % 236 8.84 % 403 2.51 %	Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	-	-	-	-	-	-
Default Defa	Default	Default	100.00 (Default)	С	C to D	17	-	-	-	-	-	-	-
Investment grade	Sub-total					18	16,094	0.03 %	236	8.84 %		403	2.51 %
Investment grade	Bank	<u>'</u>	•										
Investment grade I-6, I-7 0.25 to <0.50 Baa2 to Baa3 BBB to BBB- 21 878 0.33 % 48 34.44 % 0.55 259 29.54 % 17, S-1 0.50 to <0.75 Baa3 to Ba1 BBB- to BB- 22 109 0.54 % 74 37.04 % 0.96 52 47.72 % 17.72 % 17.72 % 18	Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	19	16,018	0.07 %	289	34.61 %	1.13	1,807	11.28 %
Investment grade to Non-investment grade by Non-invest	Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	1,863	0.19 %	84	35.00 %	0.47	415	22.27 %
Non-investment grade S-1, S-2, S-3 0.75 to <2.50 Ba1 to Ba3 BB+ to BB- 23 2 1.17 % 11 43.25 % 0.84 2 78.43 % Non-investment grade to Watchlist S-3, S-4, P-1, P-2 2.50 to <10.00 Ba3 to Caa1 BB- to B- 24 115 2.74 % 6 44.99 % 1.00 129 112.93 % 11.00 to <10.00 to <100.00 Caa1 to Ca B- to CC 25	Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	878	0.33 %	48	34.44 %	0.55	259	29.54 %
Non-investment grade to Watchlist S-3, S-4, P-1, P-2 2.50 to <10.00 Ba3 to Caa1 BB- to B- 24 115 2.74 % 6 44.99 % 1.00 129 112.93 % Watchlist P-2, P-3 10.00 to <100.00 Caa1 to Ca B- to CC 25	Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	109	0.54 %	74	37.04 %	0.96	52	47.72 %
Watchlist P-2, P-3 Default 10.00 to <100.00 (Default) Caa1 to Ca C to D B- to CC C to D 25	Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	2	1.17 %	11	43.25 %	0.84	2	78.43 %
Default Default 100.00 (Default) C C to D 26 -	Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	115	2.74 %	6	44.99 %	1.00	129	112.93 %
Sub-total 27 18,985 0.11 % 512 34.72 % 2,664 14.03 %	Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	25	-	-	-	-	-	-	-
	Default	Default	100.00 (Default)	С	C to D	26	-	-	-	-	-	-	-
Total (all wholesale portfolios) 28 68,962 0.28 % 6,614 26.59 % 13,442 19.49 %	Sub-total					27	18,985	0.11 %	512	34.72 %		2,664	14.03 %
	Total (all wholesale portfolios)					28	68,962	0.28 %	6,614	26.59 %		13,442	19.49 %

⁽¹⁾ Calculated as obligor PD weighted by EAD.

⁽²⁾ Obligor count for Wholesale portfolios is at the borrower level.

⁽³⁾ Calculated as the obligor LGD weighted by EAD.

⁽⁴⁾ Calculated as the obligor effective maturity in years weighted by EAD.

CCR5 - COMPOSITION OF COLLATERAL				Q3 2	2022		
FOR CCR EXPOSURE (1) (2)			Collateral used in de	rivative transactions		Collateral u	sed in SFTs
		Fair value of col	lateral received	Fair value of po	osted collateral	Fair value of	Fair value of
	LINE	Segregated	Unsegregated	Segregated	Unsegregated	collateral received	posted collateral
(\$ millions)	#	а	b	С	d	е	f
Cash – domestic currency	1	-	824	-	2,442	35,301	44,016
Cash – other currencies	2	-	3,802	-	5,207	77,917	78,642
Domestic sovereign debt	3	738	4,197	813	1,279	45,884	38,118
Other sovereign debt	4	2,252	734	501	356	49,137	47,579
Government agency debt	5	5	847	-	254	7,757	23,972
Corporate bonds	6	484	99	398	73	22,269	9,859
Equity securities	7	1,158	3,141	4,032	8,699	45,866	54,243
Other collateral	8	_	-	_		-	
Total	9	4,637	13,644	5,744	18,310	284,131	296,429

4,463

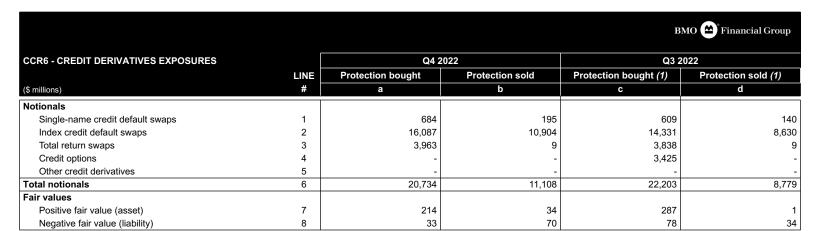
CCR5 - COMPOSITION OF COLLATERAL				Q2 2	2022		
FOR CCR EXPOSURE (1) (2)			Collateral used in de	rivative transactions		Collateral us	sed in SFTs
		Fair value of col	lateral received	Fair value of po	sted collateral	Fair value of	Fair value of
	LINE	Segregated	Unsegregated	Segregated	Unsegregated	collateral received	posted collateral
(\$ millions)	#	а	b	С	d	е	f
Cash – domestic currency	1	-	3,217	-	2,050	35,782	43,836
Cash – other currencies	2	-	4,347	_	4,941	72,635	76,136
Domestic sovereign debt	3	1,280	1,762	1,400	872	44,329	37,684
Other sovereign debt	4	3,023	558	478	569	46,700	44,918
Government agency debt	5	-	1,858	-	179	5,104	19,974
Corporate bonds	6	289	817	98	35	23,277	11,240
Equity securities	7	978	360	5,333	5,654	47,968	57,420
Other collateral	8	-	-	_	-	-	-
Total	9	5,570	12,919	7,309	14,300	275,795	291,208

CCR5 - COMPOSITION OF COLLATERAL				Q1 2	2022		
FOR CCR EXPOSURE (1) (2)			Collateral used in de	rivative transactions		Collateral us	sed in SFTs
		Fair value of col	lateral received	Fair value of po	sted collateral	Fair value of	Fair value of
	LINE	Segregated	Unsegregated	Segregated	Unsegregated	collateral received	posted collateral
(\$ millions)	#	a	b	С	d	е	f
Cash – domestic currency	1	-	826	-	2,159	30,742	49,401
Cash – other currencies Domestic sovereign debt	3	592	3,534 1,603	715	3,402 2,549	90,136 47,706	80,867 34,601
Other sovereign debt	4	1.887	294	884	477	52,994	50,342 28,313
Government agency debt Corporate bonds	5 6	145 91	2,024 133	400	322 15	7,633 25,390	28,313 12,450
Equity securities	7	2,143	438	3,955	5,931	49,300	61.510
Other collateral Total	9	4,858	8,852	5,954	14,855	303,901	317,484

CCR5 - COMPOSITION OF COLLATERAL				Q4 2	2021		
FOR CCR EXPOSURE (1) (2)			Collateral used in de	rivative transactions		Collateral us	sed in SFTs
		Fair value of col	lateral received	Fair value of po	sted collateral	Fair value of	Fair value of
	LINE	Segregated	Unsegregated	Segregated	Unsegregated	collateral received	posted collateral
(\$ millions)	#	а	b	С	d	е	f
Cash – domestic currency	1	-	3,116	-	1,254	29,188	40,880
Cash – other currencies	2	-	3,754	- 1	2,503	82,529	76,825
Domestic sovereign debt	3	41	903	595	2,500	40,846	32,663
Other sovereign debt	4	1,501	372	740	398	50,833	56,403
Government agency debt	5	512	2,095	-	478	7,541	25,074
Corporate bonds	6	208	-	279	7	24,234	12,045
Equity securities	7	1,249	400	2,711	4,997	48,931	55,294
Other collateral	8	-	-	-	_	22	5
Total	9	3,511	10,640	4,325	12,137	284,124	299,189

⁽¹⁾ Segregated refers to collateral which is held in a bankruptcy-remote manner whereas unsegregated refers to collateral that is not held in a bankruptcy-remote manner.

⁽²⁾ Debt issued by Multilaterals and Supranationals is included under other sovereign debt while debt issued by Fannie Mae and Freddie Mac is included under government agency debt.



CCR6 - CREDIT DERIVATIVES EXPOSURES		Q2 2	022	Q1 2	2022
	LINE	Protection bought	Protection sold	Protection bought	Protection sold
(\$ millions)	#	а	b	С	d
Notionals					
Single-name credit default swaps	1	654	81	646	93
Index credit default swaps	2	15,118	9,719	11,507	4,968
Total return swaps	3	3,957	9	3,079	9
Credit options	4	1,861	-	3,085	-
Other credit derivatives	5	-	-	-	-
Total notionals	6	21,590	9,809	18,317	5,070
Fair values					
Positive fair value (asset)	7	122	6	65	3
Negative fair value (liability)	8	21	1	45	5

CCR6 - CREDIT DERIVATIVES EXPOSURES		Q4 202	21
	LINE	Protection bought	Protection sold
(\$ millions)	#	а	b
Notionals			
Single-name credit default swaps	1	778	179
Index credit default swaps	2	11,579	4,979
Total return swaps	3	4,342	3
Credit options	4	-	-
Other credit derivatives	5	-	-
Total notionals	6	16,699	5,161
Fair values			
Positive fair value (asset)	7	41	120
Negative fair value (liability)	8	356	4

⁽¹⁾ Prior period has been reclassified to conform with current period's presentation.

								I	BMO 👛° Finar	ncial Group
CCR8 - EXPOSURES TO CENTRAL COUNTERPARTIES	Q4 2	022	Q3 2	022	Q2 2	2022	Q1 2	2022	Q4 2	021
	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA
(\$ millions)	а	b	С	d	е	f	g	h	i	j
1 Exposures to QCCPs (total)		914		795		777		1,053		780
Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which:	13,698	287	14,775	308	17,803	362	23,207	474	18,440	380
3 (i) OTC derivatives	4,961	113	4,223	97	4,478	96	4,684	104	3,701	85
4 (ii) Exchange-traded derivatives	7,422	148	9,301	186	12,355	247	16,658	333	13,902	278
5 (iii) Securities financing transactions	1,315	26	1,251	25	970	19	1,865	37	837	17
6 (iv) Netting sets where cross-product netting has been approved	-	-	-	-	-	-	-	-	-	-
7 Segregated initial margin	-		-		-		-		-	
8 Non-segregated initial margin	6,266		6,587		7,404		6,974		5,423	
9 Pre-funded default fund contributions	1,112	627	1,098	487	835	415	1,105	579	894	400
10 Unfunded default fund contributions	-	-	-	-	-	-	-	-	-	-
11 Exposures to non-QCCPs (total)		-		-		-		1		-
12 Exposures for trades at non-QCCPs (excluding initial margin and default fund contributions); of which:	-	-	-	-	_	-	-	-	-	-
13 (i) OTC derivatives	-	-	-	-	-	-	-	-	-	-
14 (ii) Exchange-traded derivatives	-	-	-	-	-	-	-	-	-	-
15 (iii) Securities financing transactions	-	-	-	-	-	-	-	-	-	-
16 (iv) Netting sets where cross-product netting has been approved	-	-	-	-	-	-	-	-	-	-
17 Segregated initial margin	-		-		-		-		-	
18 Non-segregated initial margin	-	-	-	-	-	-	-[-	-	-
19 Pre-funded default fund contributions	-	-	-	-	-	-	-	-	-	-
20 Unfunded default fund contributions	-	-	-	-	-	-	-	-	-	-

DEDUKATIVE INICTELIMENTO			Q4 20)22		Q3 2022				
DERIVATIVE INSTRUMENTS (\$ millions)	LINE #	Notional Amount	Replacement Cost	Credit Risk Equivalent	Risk-weighted Assets (1)	Notional Amount (2)	Replacement Cost	Credit Risk Equivalent	Risk-weighted Assets (1)	
Interest Rate Contracts	İ	<u> </u>	<u> </u>	·	İ	<u> </u>	<u> </u>	·		
Over-the-counter										
Swaps (3)	1	5,954,761	4,133	8,718	764	5,229,519	3,182	7,769	1,175	
Forward rate agreements	2	22,397	943	1,773	430	22,120	641	1,644	420	
Purchased options	3	98.113	48	170	46	87,437	56	182	52	
Written options	4	87,941	4	131	67	79,247	17	156	88	
	5	6,163,212	5,128	10,792	1,307	5,418,323	3,896	9,751	1,735	
Exchange traded	-	-,,	-,:	,	.,	2, ,	-,	-,	.,	
Futures	6	402,074	231	359	7	393,592	1,295	1,859	37	
Purchased options	7	23,854	159	227	5	24,528	241	342	7	
Written options	8	11,073	7	11	-	10,293		2		
William options	9	437,001	397	597	12	428,413	1,536	2,203	44	
Total Interest Rate Contracts	10	6,600,213	5,525	11,389	1,319	5,846,736	5,432	11,954	1,779	
	10	0,000,213	3,323	11,303	1,515	3,040,730	0,402	11,354	1,773	
Foreign Exchange Contracts										
Over-the-counter	11	702.060	1.645	5,535	000	CE2 102	1 016	4.060	800	
Swaps	11	702,068	1,645		880	653,103	1,216 915	4,962		
Forward foreign exchange contracts	12	481,773	2,250	8,339	1,237	467,058		6,491	1,058	
Purchased options	13	72,733	321	681	183	56,156	151	385	100	
Written options	14	74,041 1,330,615	2 4,218	88 14,643	2,330	58,768	5 2,287	100 11,938	33 1,991	
Fresh are as traded	15	1,330,615	4,218	14,643	2,330	1,235,085	2,287	11,938	1,991	
Exchange traded	40	4.000		0		4.400				
Futures	16	1,032	-	2	-	1,189	-	-	-	
Purchased options	17	1,127	-	2	-	1,582	-	-	-	
Written options	18	5,421 7,580	7	10 14	-	5,317	-	-		
	19	· · · · · · · · · · · · · · · · · · ·	1 225		-	8,088	-	- 11.000	-	
Total Foreign Exchange Contracts	20	1,338,195	4,225	14,657	2,330	1,243,173	2,287	11,938	1,991	
Commodity Contracts										
Over-the-counter										
Swaps	21	24,525	3,160	6,107	1,281	30,611	5,221	9,235	1,838	
Purchased options	22	5,686	435	936	194	5,553	845	1,585	326	
Written options	23	5,011	126	403	107	4,880	99	350	103	
	24	35,222	3,721	7,446	1,582	41,044	6,165	11,170	2,267	
Exchange traded										
Futures	25	44,836	1,122	2,055	41	48,800	1,292	2,374	47	
Purchased options	26	34,177	356	552	11	29,251	79	157	3	
Written options	27	34,245	303	471	9	29,022	38	95	2	
	28	113,258	1,781	3,078	61	107,073	1,409	2,626	52	
Total Commodity Contracts	29	148,480	5,502	10,524	1,643	148,117	7,574	13,796	2,319	
Equity Contracts										
Over-the-counter	30	105,280	582	9,076	2,406	98,752	586	8,905	2,462	
Exchange traded	31	162,102	1,580	3,888	78	120,888	2,011	4,472	89	
Total Equity Contracts	32	267,382	2,162	12,964	2,484	219,640	2,597	13,377	2,551	
Credit Contracts	33	27,870	97	562	103	27,135	247	734	71	
orean contracts		, .								
Sub-total	34	8,382,140	17,511	50,096	7,879	7,484,801	18,137	51,799	8,711	

⁽¹⁾ Risk-weighted assets are reported after the impact of master netting agreements and application of 1.06 AIRB scaling factor, where applicable.

⁽²⁾ Prior period has been reclassified to conform with current period's presentation.

⁽³⁾ Interest Rate Contracts include Interest Rate Total Return Swaps.

	Q2 2022						Q1 :	2022		Q4 2021			
DERIVATIVE INSTRUMENTS (\$ millions)	LINE #	Notional Amount	Replacement Cost	Credit Risk Equivalent	Risk-weighted Assets (1)	Notional Amount	Replacement Cost	Credit Risk Equivalent	Risk-weighted Assets (1)	Notional Amount	Replacement Cost	Credit Risk Equivalent	Risk-weighted Assets (1)
	"	Amount	Cost	Equivalent	Assets (1)	Amount	Cost	Equivalent	Assets (1)	Amount	Cost	Equivalent	Assets (1)
Interest Rate Contracts													
Over-the-counter		5.040.404	0.070	7.000	000	4 074 440	0.705	7.550	4 000	4 454 004	0.000	0.000	4 400
Swaps (2)	1	5,213,184	3,078	7,636	908	4,671,446		7,556	1,209	4,151,291	2,636	6,936	
Forward rate agreements	2	12,664	973	2,046	359	19,976		2,166	686	147,657	667	2,545	
Purchased options	3	79,337	201	368	240	73,733		354	238	69,491	16	72	
Written options	4	71,896	7	129	74	70,984	11	132		68,155		105	
	5	5,377,081	4,259	10,179	1,581	4,836,139	3,818	10,208	2,213	4,436,594	3,339	9,658	2,399
Exchange traded			4.005		00	007 700	4.050	4 004		000 070			•
Futures	6	273,572	1,005	1,442	29	267,790		1,801	36	232,972		141	3
Purchased options	7	17,509	36	53	1	16,096	58	83	2	10,611	2	4	-
Written options	8	13,470		2	-	4,494		1	-	3,621	2	4	
	9	304,551	1,041	1,497	30	288,380		1,885		247,204	75	149	
Total Interest Rate Contracts	10	5,681,632	5,300	11,676	1,611	5,124,519	5,126	12,093	2,251	4,683,798	3,414	9,807	2,402
Foreign Exchange Contracts													
Over-the-counter													
Swaps	11	660,616	1,270	5,314	911	620,902	,	4,981	960	599,333	1,087	4,609	
Forward foreign exchange contracts	12	484,045	1,684	8,038	1,267	506,211	956	7,704	987	489,426	769	6,649	
Purchased options	13	55,737	705	1,117	392	61,011	88	269	87	54,145		270	
Written options	14	56,844	4	98	31	61,673		103	35	54,147	11	115	
	15	1,257,242	3,663	14,567	2,601	1,249,797	2,145	13,057	2,069	1,197,051	1,960	11,643	2,012
Exchange traded													
Futures	16	1,054	-	1	-	322		-	-	222		2	
Purchased options	17	1,664	-	1	-	1,577		1	-	1,762		22	
Written options	18	5,144	-	-	-	4,925	-	1	-	4,735		37	
	19	7,862	-	2		6,824	-	2		6,719		61	
Total Foreign Exchange Contracts	20	1,265,104	3,663	14,569	2,601	1,256,621	2,145	13,059	2,069	1,203,770	2,002	11,704	2,013
Commodity Contracts													
Over-the-counter													
Swaps	21	34,351	5,627	10,064	2,177	27,986	4,064	7,700	2,149	28,892	4,357	8,183	
Purchased options	22	5,187	1,113	2,054	544	4,198		1,352		4,526	,	2,601	
Written options	23	4,566	111	360	136	2,979		200	84	3,132	6	175	
	24	44,104	6,851	12,478	2,857	35,163	4,743	9,252	2,688	36,550	5,900	10,959	2,656
Exchange traded													
Futures	25	47,649	1,193	2,402	48	37,576	,	1,967	39	39,448		3,244	
Purchased options	26	19,911	196	350	7	11,175		910		10,020		721	14
Written options	27	19,068	29	116	2	11,849		76		11,000		727	
	28	86,628	1,418	2,868	57	60,600		2,953	59	60,468		4,692	
Total Commodity Contracts	29	130,732	8,269	15,346	2,914	95,763	6,400	12,205	2,747	97,018	8,666	15,651	2,750
Equity Contracts													
Over-the-counter	30	104,419	904	9,556	2,591	93,410	374	9,250	2,616	99,478	467	9,754	2,663
Exchange traded	31	118,460	4,025	7,987	160	128,878	6,262	11,819	236	106,302	3,873	7,938	159
Total Equity Contracts	32	222,879	4,929	17,543	2,751	222,288	6,636	21,069	2,852	205,780	4,340	17,692	2,822
Credit Contracts	33	27,435	74	526	50	20,300	241	638		17,516		721	79
Sub-total	34	7,327,782	22,235	59,660	9,927	6,719,491	20,548	59,064	9,958	6,207,882		55,575	
Total	35	7,327,782	22,235	59,660	9,927	6,719,491	20,548	59,064	9,958	6,207,882		55,575	
(1) Diek weighted essets are reported off						<u> </u>		00,004	5,950	0,201,002	10,099	00,010	10,000

⁽¹⁾ Risk-weighted assets are reported after the impact of master netting agreements and application of 1.06 AIRB scaling factor where applicable.

⁽²⁾ Interest Rate Contracts include Interest Rate Total Return Swaps.

SEC1 - SECURITIZATION EXPOSURES IN THE BANKING BOOK (1) (2)

		(- / (- /								
						Q4 2022				
		Ва	ınk acts as originat	or	В	ank acts as spons	or	В	ank acts as investo	or
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$	\$ millions)	а	b	С	d	е	f	g	h	i
	1 Total retail, of which:	2,347	-	2,347	16,541	-	16,541	230	-	230
[2	2 Residential mortgage (3)	-	-	-	1,326	=	1,326	133	-	133
3	3 Credit card	1,890	-	1,890	1,164	-	1,164	-	-	-
4	4 Other retail exposures	457	-	457	14,051	-	14,051	97	-	97
	5 Re-securitization	-	-	-	-	-	-	-	-	-
6	6 Total wholesale, of which:	769	40,287	41,056	6,674	-	6,674	31	-	31
7	7 Loans to corporates	644	40,287	40,931	242	-	242	-	-	-
1	8 Commercial mortgage	125	-	125	-	-	-	-	-	-
1	9 Lease and receivables	-	-	-	4,889	-	4,889	26	-	26
1	Other wholesale	-	-	-	1,543	-	1,543	5	-	5
1	11 Re-securitization	_	-	-	-	-	_	_	_	_

SEC1 - SECURITIZATION EXPOSURES IN THE BANKING BOOK (1) (2)

SE	CI - SECURITIZATION EXPOSURES IN THE BANKING	BOOK (1) (2)								
						Q3 2022				
		Ва	nk acts as originat	or	В	ank acts as spons	or	В	ank acts as investo	r
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Synthetic
(\$ n	nillions)	а	b	С	d	е	f	g	h	i
1	Total retail, of which:	2,099	-	2,099	16,298	-	16,298	180	-	180
2	Residential mortgage (3)	-		-	1,020	-	1,020	143	-	143
3	Credit card	1,890	-	1,890	1,115	-	1,115	-	-	-
4	Other retail exposures	209	-	209	14,163	-	14,163	37	-	37
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Total wholesale, of which:	643	24,550	25,193	5,755	ı	5,755	43	-	43
7	Loans to corporates	545	24,550	25,095	216	-	216	-	-	-
8	Commercial mortgage	98	-	98	-	-	-	-	-	-
9	Lease and receivables	-	-	-	4,015	-	4,015	37	-	37
10	Other wholesale	-	-	-	1,524	-	1,524	6	-	6
11	Re-securitization	-	-	-	-	-	-	-	-	-

⁽¹⁾ The amounts disclosed represent the carrying value of securitization exposures in the banking book, including securitization exposures where the criteria for recognition of risk transference are not met and where capital is not calculated under OSFI's CAR guideline, Chapter 7, structured credit products. At October 31, 2022, \$398 million (\$135 million at July 31, 2022, \$163 million at April 30, 2022, \$287 million at January 31, 2022, and \$115 million at October 31, 2021) securitizations were capitalized under the Credit Risk framework.

⁽²⁾ The table excludes securitization-related assets of \$9,807 million at October 31, 2022 (\$6,974 million at July 31, 2022, \$7,015 million at April 30, 2022, and \$6,486 at January 31, 2022, and \$7,451 million at October 31, 2021) that are not subject to capital requirements but consolidated on the balance sheet for accounting purposes.

⁽³⁾ Excludes mortgage-backed securities that do not involve the tranching of credit risk (e.g. NHA MBS) which are not considered securitizations as per OSFI's CAR Guideline, Chapter 7, Structured Credit Products.



					Q2 2022				
	Bai	nk acts as originat	or	В	ank acts as spons	or	В	ank acts as investo	r
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$ millions)	a	b	С	d	е	f	g	h	i
1 Total retail, of which:	2,129	-	2,129	13,538	-	13,538	194	-	194
2 Residential mortgage (3)	-	-	-	544	-	544	155	-	155
3 Credit card	1,890	-	1,890	1,065	-	1,065	-	-	-
4 Other retail exposures	239	-	239	11,929	-	11,929	39	-	39
5 Re-securitization	-	-	-	-	-	-	-	-	-
6 Total wholesale, of which:	190	24,438	24,628	5,631	-	5,631	57	-	57
7 Loans to corporates	115	24,438	24,553	218	-	218	-	-	-
8 Commercial mortgage	75	-	75	-	-	-	-	-	-
9 Lease and receivables	-	-	-	4,032	-	4,032	51	-	51
10 Other wholesale	-	-	-	1,381	-	1,381	6	-	6
11 Re-securitization	-	-	-	-	-	-	-	-	-

SEC1 - SECURITIZATION EXPOSURES IN THE BANKING B	EC1 - SECURITIZATION EXPOSURES IN THE BANKING BOOK (1) (2)										
					Q1 2022						
	Ba	ank acts as originato	or	В	ank acts as sponso	or	Ва	ink acts as investo	r		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total		
(\$ millions)	а	b	С	d	е	f	g	h	i		
1 Total retail, of which:	349	-	349	12,279	-	12,279	137	-	137		
2 Residential mortgage (3)	-	-	-	565	-	565	95	-	95		
3 Credit card	-	-	-	959	-	959	-	-	-		
4 Other retail exposures	349	-	349	10,755	-	10,755	42	-	42		
5 Re-securitization	-	-	-	-	-	-	-	-	-		
6 Total wholesale, of which:	134	12,713	12,847	5,429	-	5,429	66	-	66		
7 Loans to corporates	117	12,713	12,830	216	-	216	-	-	-		
8 Commercial mortgage	17	-	17	-	-	-	-	-	-		
9 Lease and receivables	-	-	-	3,833	-	3,833	60	-	60		
10 Other wholesale	-	-	-	1,380	-	1,380	6	-	6		
11 Re-securitization	-	-	-	-	-	-	-	-	-		

SEC1 - SECURITIZATION EXPOSURES IN THE BANKING B	OOK (1) (2)								
					Q4 2021				
	Ba	ank acts as originato	r	В	ank acts as sponso	or	Ba	ink acts as investo	r
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$ millions)	а	b	С	d	е	f	g	h	i
1 Total retail, of which:	193	-	193	11,942	-	11,942	136	-	136
2 Residential mortgage (3)	-	-	-	671	-	671	81	-	81
3 Credit card	-	-	-	939	-	939	-	-	-
4 Other retail exposures	193	-	193	10,332	-	10,332	55	-	55
5 Re-securitization	-	-	-	-	-	-	-	-	-
6 Total wholesale, of which:	111	12,359	12,470	5,382	•	5,382	25	-	25
7 Loans to corporates	104	12,359	12,463	210	-	210	-	-	-
8 Commercial mortgage	7	-	7	-	-	-	-	-	-
9 Lease and receivables	-	-	-	3,798	-	3,798	19	-	19
10 Other wholesale	-	-	-	1,374	-	1,374	6	-	6
11 Re-securitization	-	-	-	-	-	-	-	-	-

⁽¹⁾ The amounts disclosed represent the carrying value of securitization exposures in the banking book, including securitization exposures where the criteria for recognition of risk transference are not met and where capital is not calculated under OSFI's CAR guideline, Chapter 7, structured credit products. At October 31, 2022, \$398 million (\$135 million at July 31, 2022, \$163 million at April 30, 2022, \$287 million at January 31, 2022, and \$115 million at October 31, 2021) securitizations were capitalized under the Credit Risk framework.

⁽²⁾ The table excludes securitization-related assets of \$9,807 million at October 31, 2022 (\$6,974 million at July 31, 2022, \$7,015 million at April 30, 2022, and \$6,486 at January 31, 2022, and \$7,451 million at October 31, 2021) that are not subject to capital requirements but consolidated on the balance sheet for accounting purposes.

⁽³⁾ Excludes mortgage-backed securities that do not involve the tranching of credit risk (e.g. NHA MBS) which are not considered securitizations as per OSFI's CAR Guideline, Chapter 7, Structured Credit Products.

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)

					Q4 2022							
		Ba	ank acts as originat	tor	E	Bank acts as spons	or	В	ank acts as investo	r		
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total		
(\$ m	illions)	а	b	С	d	е	f	g	h	i		
1	Total retail, of which:	-	-	-	-	-	-	220	-	220		
2	Residential mortgage	-	-	-	-	-	-	118	-	118		
3	Credit card	-	-	-	-	-	-	2	-	2		
4	Auto loans/leases	-	-	-	-	-	-	85	-	85		
5	Student loans	-	-	-	-	-	-	7	-	7		
6	Other retail exposures	-	-	-	-	-	-	8	-	8		
7	Re-securitization	=	-	-	-	-	-	=	-	-		
8	Total wholesale, of which:	-	-	-	-	-	-	202	-	202		
9	Loans to corporates	-	-	-	-	-	-	48	-	48		
10	Commercial mortgage	-	-	-	-	-	-	149	-	149		
11	Lease and receivables	-	-	-	-	-	-	5	-	5		
12	Auto floorplan	-	-	-	-	-	-	-	-	-		
13	Insurance premium	-	-	-	-	-	-	-	-	-		
14	Other wholesale	-	-	-	-	-	-	-	-	-		
15	Re-securitization	-	-	-	-	-	-	-	-	-		

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)

		Q3 2022										
		Ba	ank acts as originat	tor	В	ank acts as spons	or	В	ank acts as investo	r		
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total		
(\$ m	illions)	а	b	С	d	е	f	g	h	i		
1	Total retail, of which:	-	-	-	-	-	-	150	-	150		
2	Residential mortgage	-	-	-	-	-	-	91	-	91		
3	Credit card	-	-	-	-	-	-	(1)	-	(1)		
4	Auto loans/leases	-	-	-	-	-	-	44	-	44		
5	Student loans	-	-	-	-	-	-	12	-	12		
6	Other retail exposures	-	-	-	-	-	-	4	-	4		
7	Re-securitization	-	-	-	-	-	=	=	-	-		
8	Total wholesale, of which:	-	-	-	-	-	-	31	-	31		
9	Loans to corporates	-	-	-	-	-	-	-	-	-		
10	Commercial mortgage	-	-	-	-	-	-	25	-	25		
11	Lease and receivables	-	-	-	-	-	-	6	-	6		
12	Auto floorplan	-	-	-	-	-	-	-	-	-		
13	Insurance premium	-	-	-	-	-	-	-	-	-		
14	Other wholesale	-	-	-	-	-	-	-	-	-		
15	Re-securitization	-	-	_	_	-	_	-	-	-		

⁽¹⁾ The amounts disclosed represent the net positions in the trading book.

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)

						Q2 2022				
		Ban	k acts as origin	ator	Baı	nk acts as spon	sor	Bar	ık acts as inves	stor
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$	millions)	а	b	С	d	е	f	g	h	i
1	Total retail, of which:	-	-	-	-	_	-	191	-	191
2	Residential mortgage	-	-	-	-	-	-	108	-	108
3	Credit card	-	-	-	-	-	-	(4)	-	(4)
4	Auto loans/leases	-	-	-	-	-	-	84	-	84
5	Student loans	-	-	-	-	-	-	2	-	2
6	Other retail exposures	-	-	-	-	-	-	1	-	1
7	Re-securitization	-	-	-	-	-	-	-	-	-
8	Total wholesale, of which:	-	-	-	-	-	-	66	-	66
9	Loans to corporates	-	-	-	-	-	-	-	-	-
10	Commercial mortgage	-	-	-	-	-	-	49	-	49
11	Lease and receivables	-	-	-	-	-	-	17	-	17
12	Auto floorplan	-	-	-	-	-	-	-	-	-
13	Insurance premium	-	-	-	-	-	-	-	-	-
14	Other wholesale	-	-	-	-	-	-	-	-	-
15	Re-securitization	-	-	-	-	-	-	-	-	-

SEC	22 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)									
						Q1 2022				
		Banl	k acts as origin	ator	Bar	nk acts as spon	sor	Bar	nk acts as inves	stor
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$ m	illions)	a	b	С	d	е	f	g	h	i
1	Total retail, of which:	-	-	-	-	-	-	133	-	133
2	Residential mortgage	-	-	-	-	-	-	84	-	84
3	Credit card	-	-	-	-	-	-	(27)	-	(27)
4	Auto loans/leases	-	-	-	-	-	-	67	-	67
5	Student loans	-	-	-	-	-	-	-	-	-
6	Other retail exposures	-	-	-	-	-	-	9	-	9
7	Re-securitization	-	-	-	-	-	-	-	-	-
8	Total wholesale, of which:	-	-	-	-	-	-	87	-	87
9	Loans to corporates	-	-	-	-	-	-	-	-	-
10	Commercial mortgage	-	-	-	-	-	-	76	-	76
11	Lease and receivables	-	-	-	-	-	-	11	-	11
12	Auto floorplan	-	-	-	-	-	-	-	-	-
13	Insurance premium	-	-	-	-	-	-	-	-	-
14	Other wholesale	-	-	-	-	-	-	-	-	-
15	Re-securitization	-	-	-	-	-	-	-	-	-

SEC	C2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)									
						Q4 2021				
		Ban	k acts as origin	ator	Bar	ık acts as spon	sor	Ban	k acts as inves	tor
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$ m	illions)	а	b	С	d	е	f	g	h	i
1	Total retail, of which:	-	-	-	-	-	-	207	-	207
2	Residential mortgage	-	-	-	-	-	-	79	-	79
3	Credit card	-	-	-	-	-	-	(2)	-	(2)
4	Auto loans/leases	-	-	-	-	-	-	129	-	129
5	Student loans	-	-	-	-	-	-	-	-	-
6	Other retail exposures	-	-	-	-	-	-	1	-	1
7	Re-securitization	-	-	-	-	-	-	-	-	-
8	Total wholesale, of which:	-	-	-	-	-	-	99	-	99
9	Loans to corporates	-	-	-	-	-	-	5	-	5
10	Commercial mortgage	-	-	-	-	-	-	92	-	92
11	Lease and receivables	-	-	-	-	-	-	2	-	2
12	Auto floorplan	-	-	-	-	-	-	-	-	-
13	Insurance premium	-	-	-	-	-	-	-	-	-
14	Other wholesale	-	-	-	-	-	-	-	-	-
15	Re-securitization	-	-	-	-	-	-	-	-	-

⁽¹⁾ The amounts disclosed represent the net positions in the trading book.

SEC3 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS ORIGINATOR OR AS SPONSOR) (1)

										Q4 2022								
			xposure v	alues by R	W bands (2))	Exposure	values by reg	ulatory app	proach (2)	RWA	A by regulator	y approach	(3)		Capital charg	e after cap	
								SEC-ERBA,				SEC-ERBA,				SEC-ERBA,		
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC- IRBA	including IAA	SEC-SA	1250%	SEC- IRBA	including IAA	SEC-SA	1250%	SEC- IRBA	including IAA	SEC-SA	1250%
(\$ n	nillions)	а	b	С	d	е	f	g	h	i	j	k	ı	m	n	0	р	q
1	Total exposures	59,635	3,013	146	64	4	53,064	560	9,238	-	8,266	125	1,597	-	644	10	106	-
2	Traditional securitization	23,098	2,621	146	64	4	16,135	560	9,238	-	2,634	125	1,597	-	193	10	106	-
3	Of which securitization	23,098	2,621	146	64	4	16,135	560	9,238	-	2,634	125	1,597	-	193	10	106	-
4	Of which retail underlying	16,462	1,976	32	16	4	10,328	560	7,602	-	1,469	125	1,229	-	117	10	82	-
5	Of which wholesale	6,636	645	114	48	-	5,807	-	1,636	-	1,165	-	368	-	76	-	24	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	ı	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	36,537	392	-	-	-	36,929	-	-	-	5,632	-	-	-	451	-	-	-
10	Of which securitization	36,537	392	-	-	-	36,929	-	-	-	5,632	-	-	-	451	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Of which wholesale	36,537	392	-	-	-	36,929	-	-	-	5,632	-	-	-	451	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SEC3 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS ORIGINATOR OR AS SPONSOR) (1)

								,		Q3 2022	2		,,,					
			Exposure v	alues by R	W bands (2))	Exposure	values by reg	gulatory ap	proach (2)	RW	A by regulato	y approacl	n (3)		Capital charg	e after cap	
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$ n	nillions)	а	b	С	d	е	f	g	h	i	j	k	I	m	n	0	р	q
1	Total exposures	44,007	2,828	155	45	16	38,533	560	7,958	-	5,933	125	1,528	-	460	11	99	-
2	Traditional securitization	21,927	2,552	119	45	16	16,141	560	7,958	-	2,459	125	1,528	-	181	11	99	-
3	Of which securitization	21,927	2,552	119	45	16	16,141	560	7,958	-	2,459	125	1,528	-	181	11	99	-
4	Of which retail underlying	16,226	1,987	32	-	16	10,416	560	7,285	-	1,361	125	1,283	-	108	11	86	-
5	Of which wholesale	5,701	565	87	45	-	5,725	-	673	-	1,098	-	245	-	73	-	13	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	22,080	276	36	-	-	22,392	-	-	-	3,474	-	-	-	279	-	-	-
10	Of which securitization	22,080	276	36	-	-	22,392	-	-	-	3,474	-	-	-	279	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Of which wholesale	22,080	276	36	-	-	22,392	-	-	-	3,474	-	-	-	279	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	_

⁽¹⁾ Only includes securitization exposures where the risk transference recognition criteria are met in accordance with OSFI's CAR Guidelines, Chapter 7, Structured Credit Products.

⁽²⁾ Exposure amounts are net of collateral.

⁽³⁾ RWA before application of the KIRB cap.



								(Q2 2022			-71-7					
			Exposure v	alues by RW	/ bands (2)		Exposu	re values by reg	ulatory appro	oach (2)	R'	WA by regulator	y approach (3)		Capital charge	e after cap	
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$ n	nillions)	а	b	С	d	е	f	g	h	i	j	k	ı	m	n	0	р	q
1	Total exposures	41,112	2,254	195	45	18	36,627	560	6,437	-	5,747	125	1,241	-	442	11	82	-
2	Traditional securitization	19,046	2,120	96	45	18	14,328	560	6,437	-	2,324	125	1,241	-	168	11	82	-
3	Of which securitization	19,046	2,120	96	45	18	14,328	560	6,437	-	2,324	125	1,241	-	168	11	82	-
4	Of which retail underlying	13,466	1,987	32	-	18	9,215	560	5,728	-	1,358	125	1,035	-	106	11	70	-
5	Of which wholesale	5,580	133	64	45	-	5,113	-	709	-	966	-	206	-	62	-	12	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	22,066	134	99	-	-	22,299	-	-	-	3,423	-	-	-	274	-	-	-
10	Of which securitization	22,066	134	99	-	-	22,299	-	-	-	3,423	-	-	-	274	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Of which wholesale	22,066	134	99	-	-	22,299	-	-	-	3,423	-	-	-	274	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SE	C3 - SECURITIZATION EXPOSURI	ES IN THE I	BANKING E	BOOK AND	ASSOCIAT	ED CAPITA	AL REQUIR	EMENTS (BA	NK ACTING	AS ORIGI	NATOR OR	AS SPONSO	R) <i>(1)</i>					
										Q1 2022								
			Exposure	values by RW	/ bands (2)		Exposu	re values by reg	ulatory appro	ach (2)	R	WA by regulator	y approach (3)		Capital charge	e after cap	
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$ r	nillions)	а	b	С	d	е	f	g	h	i	j	k		m	n	0	р	q
1	Total exposures	29,005	247	54	32	19	23,140	560	5,657	-	3,422	125	994	-	265	10	70	-
2	Traditional securitization	17,586	211	54	32	19	11,685	560	5,657	-	1,653	125	994	-	124	10	70	-
3	Of which securitization	17,586	211	54	32	19	11,685	560	5,657	-	1,653	125	994	-	124	10	70	-
4	Of which retail underlying	12,208	81	32	-	19	6,791	560	4,989	-	836	125	865	-	67	10	61	-
5	Of which wholesale Of which re-securitization	5,378	130	22	32	-	4,894	-	668	-	817	-	129	-	57	-	9	-
1 7	Of which re-securitization Of which senior]			_]]	_	[]]		_ [-]		[]	
8	Of which non-senior		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	11,419	36	-	-	-	11,455	-	-	-	1,769	-	-	-	141	-	-	-
10	Of which securitization	11,419	36	-	-	-	11,455	-	-	-	1,769	-	-	-	141	-	-	-
11	Of which retail underlying		36	-	-	-		-	-	-		-	-	-		-	-	-
12	Of which wholesale Of which re-securitization	11,419	36	-	-	-	11,455	-	-	-	1,769	-	-	-	141	-	-	-
14	Of which re-securitization Of which senior] []]	[]]]] []] [-] []			
15	Of which non-senior	-	_	_	_	-	_	_	-	_	_	_	_	_	_	_	-	_

QE.	C3 - SECURITIZATION EXPOSUR	ES IN THE E	BANKING E	SOOK AND	ASSOCIAT	ED CARIT	AL BEOLUE	DEMENTS /BA	NK ACTING	AS ORIG	INATOR OF	AS SPONSO	D) (1)					
SE	C3 - 3ECORITIZATION EXPOSOR	L3 IN THE I	SANKING L	OOK AND	ASSOCIA	LD CAFIII	AL NEQUIP	CLWILINIS (BA	NR ACTING	Q4 2021		AS SPUNSO	N)(1)					
			Exposure	values by RW	bands (2)		Exposu	ire values by reg	ulatory appro	oach (2)	R	WA by regulator	y approach (3)		Capital charg	e after cap	
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$ n	nillions)	а	b	С	d	е	f	g	h	i	j	k	1	m	n	0	р	q
1	Total exposures	28,314	240	10	79	38	22,522	476	5,683	-	3,447	130	1,149	-	271	10	83	-
2	Traditional securitization	17,182	204	10	79	38	11,354	476	5,683	-	1,748	130	1,149	-	135	10	83	-
3	Of which securitization	17,182	204	10	79	38	11,354		5,683	-	1,748	130	1,149	-	135	10	83	-
4	Of which retail underlying	11,864	77		43	36	6,508		5,036	-	839	130	1,044	-	67	10	75	-
5	Of which wholesale	5,318	127	10	36	2	4,846	-	647	-	909	-	105	-	68	-	8	-
6	Of which re-securitization Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	_	_	-] [] []	-	-] [_	_	-]	_]	_
9	Synthetic securitization	11,132	36	-	_	-	11,168	-	-	-	1,699	-	-	-	136	-	-	-
10	Of which securitization	11,132	36	-	-	-	11,168	-	-	-	1,699	-	-	-	136	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Of which wholesale	11,132	36	-	-	-	11,168	-	-	-	1,699	-	-	-	136	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-

⁽¹⁾ Only includes securitization exposures where the risk transference recognition criteria are met in accordance with OSFI's CAR Guidelines, Chapter 7, Structured Credit Products.

⁽²⁾ Exposure amounts are net of collateral.

⁽³⁾ RWA before application of the KIRB cap.

SEC4 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS INVESTOR) (1)

										Q4 2022								
			xposure v	alues by R	W bands (2))	Exposure	values by reg	ulatory ap	proach (2)	RW	A by regulator	y approach	n <i>(3)</i>		Capital charg	e after cap	
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$ m	illions)	а	b	С	d	е	f	g	h	i	j	k		m	n	0	р	q
1	Total exposures	256	5	-	-	-	193	68	-	-	24	12	-	1	2	1	-	-
2	Traditional securitization	256	5	-	-	-	193	68	-	-	24	12	•	•	2	1	-	-
3	Of which securitization	256	5	-	-	-	193	68	-	-	24	12		-	2	1	-	-
4	Of which retail underlying	230	-	-	-	-	167	63	-	-	20	10	-	-	2	1	-	-
5	Of which wholesale	26	5	-	-	-	26	5	-	-	4	2	-	-	-	-	-	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SEC4 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS INVESTOR) (1)

										Q3 2022								
		E	xposure v	alues by R	W bands (2))	Exposure	values by reg	ulatory ap	proach (2)	RW	A by regulato	ry approacl	h (3)		Capital charg	e after cap	
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC- IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$ m	illions)	а	b	С	d	е	f	g	h	i	j	k		m	n	0	р	q
1	Total exposures	217	6	-	-	-	74	149	-	-	11	19	-	-	-	1	-	-
2	Traditional securitization	217	6	-	-	-	74	149	-	-	11	19	-	-	-	1	-	-
3	Of which securitization	217	6	-	-	-	74	149	-	-	11	19	-	-	-	1	-	-
4	Of which retail underlying	180	-	-	-	-	37	143	-	-	5	17	-	-	-	1	-	-
5	Of which wholesale	37	6	-	-	-	37	6	-	-	6	2		-	-	-		
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
9	Synthetic securitization	-	-	-	-	-	-		-	-	-		-	-	-	-	-	-
10	Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Of which re-securitization	-	-	-	-	-		-	-	-		-		-	-	-		-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- (1) Only includes securitization exposures where the risk transference recognition criteria are met in accordance with OSFI's CAR Guidelines, Chapter 7, Structured Credit Products.
- (2) Exposure amounts are net of collateral.
- (3) RWA before application of the KIRB cap.

SEC4 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS INVESTOR) (1)

										Q2 2022								
			Exposure va	alues by RW	bands (2)		Exposu	re values by reg	ulatory appr	oach <i>(2)</i>	R	WA by regulator	y approach ((3)		Capital charge	after cap	
		≤20%	>20% to 50%	>50% to 100%	>100% to <1250%		SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$ n	illions)	а	b	С	d	е	f	g	h	i	j	k		m	n	0	р	q
1	Total exposures	245	6	-	-	-	90	161	-	-	14	20	-	-	2	1	-	-
2	Traditional securitization	245	6	-	-	-	90	161	-	-	14	20	-	-	2	1	-	-
3	Of which securitization	245	6	-	-	-	90	161	-	-	14	20	-	-	2	1	-	-
4	Of which retail underlying	194	-	-	-	-	39	155	-	-	6	18	-	-		1	-	-
5	Of which wholesale	51	6	-	-	-	51	6	-	-	8	2	-	-	2	-	-	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
12	Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SEC4 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS INVESTOR) (1)

								(====			/ (-/							
										Q1 2022								
			Exposure va	alues by RW	bands (2)		Exposu	re values by reg	ulatory appr	oach <i>(2)</i>	R	WA by regulator	y approach ((3)		Capital charge	e after cap	
		≤20%	>20% to 50%		>100% to <1250%	1250% RW	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$	millions)	а	b	С	d	е	f	g	h	i	j	k		m	n	0	р	q
1	Total exposures	197	6	-	-	-	102	101	-	-	15	12	-	-	2	1	-	-
2	Traditional securitization	197	6	-	-	-	102	101	-	-	15	12	-	-	2	1	-	-
3	Of which securitization	197	6	-	-	-	102	101	-	-	15	12	-	-	2	1	-	-
4	Of which retail underlying	137	-	-	-	-	42	95	-	-	6	10	-	-	1	1	-	-
5	Of which wholesale	60	6	-	-	-	60	6	-	-	9	2	-	-	1	-	-	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
10	Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	2 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	4 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Of which non-senior	-		-	-	-	-	-	-	-	-	-	-	-	-	-		-

SEC4 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS INVESTOR) (1)

										Q4 2021								
			Exposure v	alues by RW	bands (2)		Exposu	re values by reg	gulatory appr	oach (2)	R	WA by regulator	y approach	(3)		Capital charge	after cap	
		≤20%	>20% to 50%	>50% to 100%			SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
(\$	millions)	а	b	С	d	е	f	g	h	i	j	k		m	n	0	р	q
1	Total exposures	155	6	-	-	-	74	87	-	-	11	11	-	-	1	1	-	-
2	Traditional securitization	155	6	-	-	-	74	87	-	-	11	11	-	-	1	1	-	-
3	Of which securitization	155	6	-	-	-	74	87	-	-	11	11	-	-	1	1	-	-
4	Of which retail underlying	136	-	-	-	-	55	81	-	-	8	8	-	-	1	1	-	-
5	Of which wholesale	19	6	-	-	-	19	6	-	-	3	3	-	-	-	-	-	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitization	-	-	-	-	-	-	-	-		-	-		-	-	-	-	-
10	Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 15	Of which non-senior		1 _	1 _	1 -	1 -	1 _	1 -	1 _	_	1 -	1 _	_	1 _	1 -	I _		_

- (1) Only includes securitization exposures where the risk transference recognition criteria are met in accordance with OSFI's CAR Guidelines, Chapter 7, Structured Credit Products.
- (2) Exposure amounts are net of collateral.
- (3) RWA before application of the KIRB cap.

BMO (**) Financial Group MARKET RISK RISK-WEIGHTED ASSETS (RWA) MOVEMENT BY KEY DRIVERS LINE Q2 2022 Q1 2022 # Q4 2022 Q3 2022 Q4 2021 (\$ millions) Market Risk RWA, beginning of quarter 14,551 12,736 12,859 12,066 10,395 1 Movement in risk levels (1) 2 (964)1,761 (261)706 1,973 Model updates (2) 3 Methodology and policy (3) 138 87 (65)54 (302)Acquisition and disposals 5 Foreign exchange movement and others 6 Market Risk RWA, end of quarter 7 13,522 14,551 12,736 12,859 12,066

⁽¹⁾ Movement in risk levels includes changes in exposures and market movements.

⁽²⁾ Model updates include updates to risk models to reflect recent experience and changes in model scope.

⁽³⁾ Methodology and policy include methodology changes to the calculations driven by regulatory policy changes, such as new or revised regulation.

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH				Q4 2	022					Q3 2	022		
(\$ millions except as noted)		PD (1)	(2) (3)	LGD (1)	(4) (5)	EAD ((6) (7)	PD (1)	(2) (3)	LGD (1)	(4) (5)	EAD (6) (7)	
Risk Profile		Average estimated	Actual	Average estimated	Actual	Estimated	Actual	Average estimated	Actual	Average estimated	Actual	Estimated	Actual
Wholesale													
Corporate	1	1.06%	0.25%	35.12%	22.74%	103	99	1.09%	0.27%	35.28%	19.70%	110	79
Sovereign	2	0.18%	0.05%	18.43%	0.00%	-	-	0.17%	0.00%	18.05%	0.00%	-	-
Bank	3	0.42%	0.00%	15.86%	0.00%	-	-	0.43%	0.00%	15.64%	0.00%	-	-
Retail													
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9)	4	0.72%	0.35%	14.98%	3.96%	227	227	0.72%	0.34%	16.99%	3.65%	229	229
HELOCs (9)	5	0.34%	0.16%	29.38%	7.24%	69	61	0.33%	0.15%	30.35%	9.39%	62	52
Qualifying revolving retail (QRR)	6	1.01%	0.84%	85.25%	74.96%	407	377	0.89%	0.81%	88.00%	73.06%	385	349
Other retail (excl. SMEs)	7	3.90%	3.49%	81.38%	77.31%	235	233	3.92%	3.52%	84.06%	77.53%	219	218
Retail SMEs	8	1.54%	0.95%	77.42%	64.13%	62	60	1.54%	0.90%	75.72%	60.93%	69	67

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH		Q2 2022 Q1 2022											
(\$ millions except as noted)		PD (1)	(2) (3)	LGD (1)	(4) (5)	EAD	(6) (7)	PD (1)	(2) (3)	LGD (1)	(4) (5)	EAD (6) (7)	
	LINE	Average		Average				Average		Average			
Risk Profile	#	estimated	Actual	estimated	Actual	Estimated	Actual	estimated	Actual	estimated	Actual	Estimated	Actual
Wholesale													
Corporate	1	1.12%	0.27%	35.36%	16.71%	174	144	1.16%	0.26%	35.75%	15.85%	160	135
Sovereign	2	0.17%	0.00%	17.61%	0.00%	-	-	0.18%	0.00%	17.92%	0.00%	-	-
Bank	3	0.49%	0.00%	15.89%	0.00%	-	-	0.48%	0.00%	15.02%	0.00%	-	-
Retail													1
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9)	4	0.76%	0.36%	16.72%	3.27%	229	229	0.81%	0.39%	17.18%	4.28%	248	248
HELOCs (9)	5	0.35%	0.16%	35.01%	7.72%	68	58	0.40%	0.18%	33.54%	9.50%	66	57
Qualifying revolving retail (QRR)	6	0.92%	0.83%	87.99%	83.54%	395	356	0.99%	0.91%	88.26%	82.95%	431	386
Other retail (excl. SMEs)	7	3.94%	3.50%	83.45%	77.17%	208	207	4.51%	3.79%	84.75%	77.52%	223	221
Retail SMEs	8	1.67%	0.91%	74.93%	64.70%	98	96	1.83%	1.05%	71.38%	61.29%	127	124

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH			Q4 2	2021			
(\$ millions except as noted)		PD (1)	(2) (3)	LGD (1)	(4) (5)	EAD	(6) (7)
Risk Profile	LINE #	Average estimated	Actual	Average estimated	Actual	Estimated	Actual
Wholesale							
Corporate	1	1.16%	0.30%	35.89%	15.44%	135	96
Sovereign	2	0.18%	0.05%	17.62%	0.00%	-	-
Bank	3	0.49%	0.00%	15.07%	0.00%	-	-
Retail							
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9)	4	0.86%	0.47%	16.47%	5.25%	303	303
HELOCs (9)	5	0.41%	0.21%	30.96%	9.35%	78	66
Qualifying revolving retail (QRR)	6	0.96%	0.93%	87.69%	77.21%	434	391
Other retail (excl. SMEs)	7	4.35%	3.64%	84.20%	77.15%	251	248
Retail SMEs	8	1.87%	1.11%	70.34%	59.31%	141	138

- (1) The actual percentages reflect the experience of the past 12 months and are compared to the estimated percentages as at the beginning of the 12 month period being assessed.
- (2) Wholesale PDs are based on a borrower count simple average. There have been no Bank defaults in the past 12 months.
- (3) Retail PDs are based on account weighted average.
- (4) Wholesale LGDs are expressed as an exposure weighted average. The LGD figures include back-dated resolved facilities.
- (5) Retail LGDs are based on weighted average of LGD eligible accounts.
- (6) Wholesale EADs represent predicted vs. realized comparison for defaults in the previous 12 months. Term products are not included. There have been no defaults in the Bank asset class within the past 12 months.
- (7) Retail EADs represent predicted vs. realized comparison for defaults in the previous 12 months.
- (8) Mortgages insured by Canada Mortgage and Housing Corporation and private mortgage insurers are primarily included in Sovereign.
- (9) Investor-owned mortgages are included in the Other Retail asset class.

(\$ millions except as noted)								Q4 2022			
					Weighted		Number of c	bligors (3)	Defaulted	Of which: new	Average historical
		Moody's Investors			average	Arithmetic average	End of	End of the	obligors in	defaulted obligors	annual default
		Service implied	Standard & Poor's	LINE	PD <i>(2)</i>	PD by obligors	previous year	year	the year	in the year (4)	rate (5)
Risk Profile	BMO Rating PD Range (%)	equivalent	implied equivalent	#	а	b	С		d	е	f
Residential mortgages and											
Exceptionally low	≤ 0.05			1	0.04%	0.04%	. ,	98,310	22	1	0.03%
Very low	> 0.05 to 0.20			2	0.09%	0.09%		520,731	299	2	0.07%
Low	> 0.20 to 0.75			3	0.45%	0.41%		138,254	239	4	0.32%
Medium	> 0.75 to 7.00			4	3.09%	2.68%		76,449	770	7	2.00%
High	> 7.00 to 99.99			5	32.20%	27.16%		6,669	773	1	20.33%
Default	100.00 (Default)			6	100.00%	100.00%		-	-	-	100.00%
Sub-total				7			823,029	840,413	2,103	15	
Other retail											
Exceptionally low	≤ 0.05			8	0.04%	0.04%		12,557	5	-	0.03%
Very low	> 0.05 to 0.20			9	0.12%	0.14%		503,309	499	5	0.11%
Low	> 0.20 to 0.75			10	0.45%	0.39%		928,647	2,481	301	0.28%
Medium	> 0.75 to 7.00			11	2.14%	2.11%	623,789	506,695	8,878	1,023	1.64%
High	> 7.00 to 99.99			12	18.38%	26.93%		315,407	66,136	224	24.74%
Default	100.00 (Default)			13	100.00%	100.00%		-	-	-	100.00%
Sub-total				14			2,191,017	2,266,615	77,999	1,553	
Qualifying revolving retail											
Exceptionally low	≤ 0.05			15	0.04%	0.03%		2,652,349	880	-	0.02%
Very low	> 0.05 to 0.20			16	0.13%	0.12%	,	528,447	561	-	0.07%
Low	> 0.20 to 0.75			17	0.28%	0.29%		1,094,621	3,116	52	0.17%
Medium	> 0.75 to 7.00			18	1.83%	2.02%		914,388	14,409	1,237	1.44%
High	> 7.00 to 99.99			19	17.17%	18.05%	111,978	210,226	25,249	324	13.52%
Default	100.00 (Default)			20	100.00%	100.00%	-	-		-	100.00%
Sub-total				21			4,819,726	5,400,031	44,215	1,613	
Retail small-and-medium-si											
Exceptionally low	≤ 0.05			22	0.00%	0.00%		2,760	-	-	0.00%
Very low	> 0.05 to 0.20			23	0.06%	0.07%		48,048	39	-	0.06%
Low	> 0.20 to 0.75			24	0.51%	0.44%	34,043	117,533	240	20	0.26%
Medium	> 0.75 to 7.00			25	3.00%	2.82%		50,827	584	16	1.98%
High	> 7.00 to 99.99			26	16.22%	19.84%	8,505	7,620	686	2	15.07%
Default	100.00 (Default)			27	100.00%	100.00%	-	-	-	-	100.00%
Sub-total				28			202,256	226,788	1,549	38	
Total (all retail portfolios)	table cover all models within the			29			8,036,028	8,733,847	125,866	3,219	

⁽¹⁾ The results shown in the table cover all models within these asset classes.

⁽²⁾ Calculated as the obligor PD weighted by EAD.

⁽³⁾ Obligor count for Retail portfolios is at the account level, excluding defaulted accounts. The reported count reflects the model coverage as at the reporting period for both the previous and current year.

⁽⁴⁾ Calculated as the number of obligors having defaulted during the last 12-month period that were not funded at the end of the previous year.

⁽⁵⁾ Retail portfolios use 5-16 year average of the annual default rate.

Rick Profile Part Post Age Post Post Age Po	(\$ millions except as noted)						Q4 2022										
Michael Mich							Weighted		Number of	obligors (3)		Of which: new	Average historical				
Reference Part Pa				Moody's Investors			average PD	Arithmetic average	End of	End of the	Defaulted obligors	defaulted obligors	annual default				
Rick Profile Graphes File Companies					LINE			previous year				rate (5)					
Composite Comp	Risk Profile	Rating	PD Range (%)	eguivalent									f				
Treatment grade			3 (**)	•					ı		1		ı				
Investment grade \$2	•	I-1	≤ 0.02	-	-	1	0.00%	0.00%	-	_	-	-	0.00 %				
Investment grade 1-3	•	1-2	>0.02 to ≤ 0.03	Aaa/Aa1	AAA/AA+	2	0.03%			79	_	_	0.00 %				
Investment graphe 1-4 0.07 to 5 0.11 AVAZAJ AYAA- 4 0.07% 0.05% 1.827 2.731 1 1	-			Aa2/Aa3		3				504	_	_	0.07 9				
Incontenting prince 5	•					4					1	_	0.04 9				
Investment grande 16		I-5		Baa1	BBB+	5					1	_	0.07 9				
Investment grander 1-7	-				BBB	6					7	_	0.15 9				
Non-inventment grade	-					7					11	_	0.23 9				
Non-investment grade \$2	-					8					14	1	0.50 %				
Non-investment grade S-3 154 to 5 2.74 883 88- 10 1.775 1.776 3.500 3.299 13 1 1 1 1 1 1 1 1	-					9						_	0.87 9				
Non-investment grade	-					10						_	1.40 %				
Macheliet	-					1						1	2.10 %				
Machelist	· ·					1						_	6.72 %				
Machinat Default 100.00 (Default) Cac CC CC 14 100.00% 100.00% 181 167 12 -						1					_	_	14.14 %				
Default Defa						1						_	20.46 %				
Sub-bolad						1						_	0.00 %				
Sovereign		Boladit	Tooloo (Boldan)		0,2		100.0070	100.0070	45.021	45.844	152	2					
Investment grade		- 1					l		10,021	.0,0		_					
Investment grade 1-2		I-1	< 0.02	Aaa	AAA	17	0.00%	0.00%	28	33	_	_	0.00 %				
Investment grade 1-3	-		1								_	_	0.00 %				
Investment grade 14	-										_	_	0.00 %				
Investment grade	-										_	_	0.00 %				
Investment grade	-	1											0.00 %				
Investment grade	-												0.00 %				
Non-investment grade	-										-	_	0.00 %				
Non-investment grade S-2 >0.91 to S-1.54 Ba2 BB 25 1.04% 1.05% 69 31 1 -	•										-	_	0.00 %				
Non-investment grade S-3 2.5 4 to ≤ 2.74 Ba3 BB 26 1.75% 1.74% 33 23 - -	-										1	_	0.00 /				
Non-investment grade	_										'	_	0.23 /				
Vatchlist											-	_	0.00 %				
Watchlist	· ·								30		-	-	0.00 %				
Watchlist P-3 >18.23 to < 100.00 Caa/Ca CCC/CC 30 0.00% 0.00% - - - - - - - - -									,	_	-	-	0.00 %				
Default Default 100.00 (Default) C C/D 31 100.00% 100.00% _ <td></td> <td></td> <td></td> <td></td> <td>1 -</td> <td></td> <td></td> <td></td> <td>3</td> <td>'</td> <td>-</td> <td>-</td> <td>0.00 9</td>					1 -				3	'	-	-	0.00 9				
Sub-total Sub									-	-	-	-	0.00 9				
Bank		Delault	100.00 (Derault)	C	C/D		100.00%	100.00%	2 222	2.462	-	-	0.00 7				
Investment grade						32			2,223	2,103	I	-					
Investment grade		114	Z 0 00	1		1 22	0.000/	0.000/	I		I	I	0.00 %				
Investment grade	-			- A/A-1/A-2/A-2	-				_	-	-	-	0.00 %				
Investment grade I-4 >0.07 to ≤ 0.11 A3 A- 36 0.07% 0.07% 58 71 - - Investment grade I-5 >0.11 to ≤ 0.19 Baa1 BBB+ 37 0.11% 0.11% 58 75 - - - Investment grade I-6 >0.19 to ≤ 0.32 Baa2 BBB 38 0.19% 0.19% 77 98 - - - Investment grade I-7 >0.32 to ≤ 0.54 Baa3 BBB- 39 0.32% 0.32% 74 76 - - - Non-investment grade S-1 >0.54 to ≤ 0.91 Ba1 BB+ 40 0.54% 0.55% 28 38 - - - Non-investment grade S-2 >0.91 to ≤ 1.54 Ba2 BB 41 0.92% 0.94% 18 18 18 - - - - - - - - - - - -	-								_		-	-					
Investment grade I-5 >0.11 to ≤ 0.19 Baa1 BBB+ 37 0.11% 0.11% 58 75 - - - Investment grade I-6 >0.19 to ≤ 0.32 Baa2 BBB 38 0.19% 0.19% 77 98 - - - Investment grade I-7 >0.32 to ≤ 0.54 Baa3 BBB- 39 0.32% 0.32% 74 76 - - - Non-investment grade S-1 >0.54 to ≤ 0.91 Ba1 BB+ 41 0.92% 0.94% 18 18 - - - Non-investment grade S-2 >0.91 to ≤ 1.54 Ba2 BB 41 0.92% 0.94% 18 18 18 -	•										-	-	0.05 %				
Investment grade	-										-	_	0.00 %				
Investment grade	•										-	-	0.05 %				
Non-investment grade S-1 >0.54 to ≤ 0.91 Ba1 BB+ 40 0.54% 0.55% 28 38 -	•										-	-	0.05 %				
Non-investment grade S-2 >0.91 to ≤ 1.54 Ba2 BB 41 0.92% 0.94% 18 18 18	-					1					-	-	0.07 %				
Non-investment grade S-3 >1.54 to ≤ 2.74 Ba3 BB- 42 1.54% 1.57% 22 21 Non-investment grade S-4 >2.74 to ≤ 5.16 B1 B+ 43 2.74% 2.74% 2.74% 21 19 Watchlist P-2 >5.16 to ≤ 9.70 B2 B A 44 5.16% 5.16% 5.16%	_										-	-	0.08 %				
Non-investment grade S-4 >2.74 to ≤ 5.16 B1 B+ 43 2.74% 2.74% 21 19 - - - Watchlist P-1 >5.16 to ≤ 9.70 B2 B 44 5.16% 5.16% - - - - - Watchlist P-2 >9.70 to ≤ 18.23 B3 B- 45 0.00% 0.00% 1 1 1 - - Watchlist P-3 >18.23 to < 100.00	_					1					-	-	0.32 %				
Watchlist P-1 >5.16 to ≤ 9.70 B2 B 44 5.16% 5.16% -	_										-	-	0.15 %				
Watchlist P-2 >9.70 to ≤ 18.23 B3 B- 45 0.00% 0.00% 1 1 1 - - - Watchlist P-3 >18.23 to < 100.00 Caa/Ca CCC/CC 46 0.00% 0.00% - - - - - - Default Default 100.00 (Default) C C/D 47 0.00% 0.00% - - - - -									21	19	-	-	0.30 %				
Watchlist P-3 >18.23 to < 100.00		1							-	-	-	-	0.00 %				
Default Default 100.00 (Default) C C/D 47 0.00% 0.00% - - - - - -					1 -				1	1	-	-	2.78 %				
50 dail 100.00 (50 dail) 0									-	-	-	-	0.00 %				
		Default	100.00 (Default)	C	C/D		0.00%	0.00%	-	-	-	-	0.00 %				
						48			417	487	-	-					
Total (all wholesale portfolios) 49 47,661 48,494 153 2	Total (all wholesale portfolios	s)				49			47,661	48,494	153	2					

⁽¹⁾ The results shown in the table cover all models within these asset classes.

⁽²⁾ Calculated as the obligor PD weighted by EAD.

⁽³⁾ Obligor count for Wholesale portfolios is at the borrower level, excluding defaulted obligors.

⁽⁴⁾ Calculated as the number of obligors having defaulted during the last 12-month period that were not funded at the end of the previous year.

⁽⁵⁾ Wholesale portfolios use 17 year average of the annual default rate.

Mode Mode	(\$ millions except as noted)							Q4 2021										
Service BMO Rating PD Range (%) oquivalent mylled equivalent will be a province provi						Weighted		Number of	obligors (3)	Defaulted	Of which: new	Average historical						
Risk Profile BMO Rating PP Range (%) equivalent implied equivalent if a bolic content of the register of the r									End of	End of the	obligors in							
Residential mortages and HELOCS				Service implied	Standard & Poor's	LINE	PD (2)	PD by obligors	previous year	year	the year	in the year (4)	rate (5)					
Exceptionally low	Risk Profile	BMO Rating	PD Range (%)	equivalent	implied equivalent	#	а	b	c		d	е	f					
Very low	Residential mortgages a	nd HELOCs																
Low	Exceptionally low		≤ 0.05			1	0.04%	0.04%	92,792	94,280	31	1	0.03%					
Medium	Very low		> 0.05 to 0.20			2	0.10%	0.09%	512,850	548,647	322	4	0.07%					
High	Low		> 0.20 to 0.75			3	0.50%	0.44%	123,836	114,578	267	5	0.35%					
Default 10.0.00 (Default) 6 100.00% -	Medium		> 0.75 to 7.00			4	3.45%	2.95%	72,998	60,439	1,017	15	2.30%					
Sub-total	High		> 7.00 to 99.99			5	34.14%	29.12%	6,190	5,085	1,007	1	22.28%					
Exceptionally low	Default		100.00 (Default)			6	100.00%	100.00%	-	-	-	-	100.00%					
Exceptionally low	Sub-total					7			808,666	823,029	2,644	26						
Very low	Other retail																	
Low	Exceptionally low		≤ 0.05			8					7	1	0.03%					
Medium	Very low					9	0.12%	0.14%	314,218	344,734	302	4	0.10%					
High	Low		> 0.20 to 0.75			10		0.34%	852,345		1,884		0.24%					
Default 100.00 (Default) 13 100.00% 100.00% - - - - - 100	Medium		> 0.75 to 7.00			11				623,789	7,800	383	1.43%					
Sub-total 14 2,078,355 2,191,017 76,247 561	High		> 7.00 to 99.99			12		28.55%	269,959	269,304	66,254	63	25.06%					
Exceptionally low	Default		100.00 (Default)			13	100.00%	100.00%	-	-	-	-	100.00%					
Exceptionally low	Sub-total					14			2,078,355	2,191,017	76,247	561						
Very low	Qualifying revolving reta	ail																
Low	Exceptionally low					15		0.03%	1,810,069	2,576,705	743	-	0.02%					
Medium	Very low		> 0.05 to 0.20			16	0.11%	0.11%	1,491,469		562	-	0.08%					
High	Low		> 0.20 to 0.75			17	0.34%	0.36%	729,642	949,549	3,704		0.27%					
Default 100.00 (Default) 20 100.00% 100.00% - - - - - - 100	Medium		> 0.75 to 7.00			18		2.51%	538,362	654,754	13,875	389	2.15%					
Sub-total 21 4,683,544 4,819,726 43,921 518 Retail small-and-medium-sized entities Exceptionally low ≤ 0.05 22 0.03% 0.03% 37,503 2 - - - - - 0	High		> 7.00 to 99.99			19			114,002	111,978	25,037	107	18.20%					
Retail small-and-medium-sized entities Exceptionally low ≤ 0.05 22 0.03% 37,503 2 - - - - 0 Very low > 0.05 to 0.20 23 0.10% 0.11% 49,310 93,764 97 - 0 Low > 0.20 to 0.75 24 0.56% 0.48% 30,544 34,043 141 3 0 Medium > 0.75 to 7.00 25 2.88% 2.26% 35,459 65,942 777 8 High > 7.00 to 99.99 26 16.23% 16.38% 23,001 8,505 1,205 11 15 Default 100.00 (Default) 27 100.00% - - - - - - - - - - - - - - 100 - - - - - - - - - - - - - - - - -	Default		100.00 (Default)				100.00%	100.00%	-	-	-	-	100.00%					
Exceptionally low	Sub-total					21			4,683,544	4,819,726	43,921	518						
Very low > 0.05 to 0.20 23 0.10% 0.11% 49,310 93,764 97 - 0 Low > 0.20 to 0.75 24 0.56% 0.48% 30,544 34,043 141 3 0 Medium > 0.75 to 7.00 25 2.88% 2.26% 35,459 65,942 777 8 High > 7.00 to 99.99 26 16.23% 16.38% 23,001 8,505 1,205 11 15 Default 100.00 (Default) 27 100.00% 100.00% - - - - - - - 100 Sub-total 28 175,817 202,256 2,220 22	Retail small-and-medium	n-sized entities																
Low > 0.20 to 0.75 24 0.56% 0.48% 30,544 34,043 141 3 0 Medium > 0.75 to 7.00 25 2.88% 2.26% 35,459 65,942 777 8 7 High > 7.00 to 99.99 26 16.23% 16.38% 23,001 8,505 1,205 11 15 Default 100.00 (Default) 27 100.00% - - - - - - - - 100 Sub-total 28 175,817 202,256 2,220 22	Exceptionally low									2	-	-	0.00%					
Medium > 0.75 to 7.00 25 2.88% 2.26% 35,459 65,942 777 8 High > 7.00 to 99.99 26 16.23% 16.38% 23,001 8,505 1,205 11 15 Default 100.00 (Default) 27 100.00% - - - - - - - 100 Sub-total 28 175,817 202,256 2,220 22	Very low					23			- ,		97	-	0.11%					
High > 7.00 to 99.99 26 16.23% 16.38% 23,001 8,505 1,205 11 15 Default 100.00 (Default) 27 100.00% 100 Sub-total 28 175,817 202,256 2,220 22	Low								, -			3	0.44%					
Default 100.00 (Default) 27 100.00% - - - - - - - - 100.00 Sub-total 28 175,817 202,256 2,220 22	Medium		> 0.75 to 7.00					2.26%	35,459		777	8	1.88%					
Sub-total 28 175,817 202,256 2,220 22	High		> 7.00 to 99.99							8,505	1,205	11	15.20%					
	Default		100.00 (Default)				100.00%	100.00%			-	-	100.00%					
Total (all retail portfolios) 7 746 382 8 036 028 125 032 1 127	Sub-total								175,817	202,256			<u> </u>					
1,110,002 0,000,020 120,002 1,121	Total (all retail portfolios	s)				29			7,746,382	8,036,028	125,032	1,127						

⁽¹⁾ The results shown in the table cover all models within these asset classes.

⁽²⁾ Calculated as the obligor PD weighted by EAD.

⁽³⁾ Obligor count for Retail portfolios is at the account level, excluding defaulted accounts.

⁽⁴⁾ Calculated as the number of obligors having defaulted during the last 12-month period that were not funded at the end of the previous year.

⁽⁵⁾ Retail portfolios use 6-15 year average of the annual default rate.

(\$ millions except as noted)						Q4 2021											
						Weighted		Number of		Of which: new Average historica							
			Moody's Investors			average PD	Arithmetic average	End of	End of the	Defaulted obligors	defaulted obligors	annual default					
			Service implied	Standard & Poor's	LINE		PD by obligors	previous year	year	in the year	in the year (4)	rate (5)					
Risk Profile	Rating	PD Range (%)	equivalent	implied equivalent	#	а	b	(d	е	f					
Corporate										•							
Investment grade	I-1	≤ 0.02	-	-	1	0.00%	0.00%	-	-	-	-	0.00					
Investment grade	I-2	>0.02 to ≤ 0.03	Aaa/Aa1	AAA/AA+	2	0.03%	0.03%	77	65	-	-	0.00					
Investment grade	I-3	>0.03 to ≤ 0.07	Aa2/Aa3	AA/AA-	3	0.04%	0.06%	518	394	-	-	0.08					
Investment grade	I-4	>0.07 to ≤ 0.11	A1/A2/A3	A+/A/A-	4	0.07%	0.08%	1,727	1,827	2	-	0.04					
Investment grade	I-5	>0.11 to ≤ 0.19	Baa1	BBB+	5	0.11%	0.13%	3,408	3,644	6	1	0.08					
Investment grade	I-6	>0.19 to ≤ 0.32	Baa2	BBB	6	0.20%	0.22%	5,199	6,327	5	-	0.16					
Investment grade	I-7	>0.32 to ≤ 0.54	Baa3	BBB-	7	0.32%	0.32%	8,801	9,951	14	-	0.24					
Non-investment grade	S-1	>0.54 to ≤ 0.91	Ba1	BB+	8	0.60%	0.62%	8,047	7,780	11	1	0.52					
Non-investment grade	S-2	>0.91 to ≤ 1.54	Ba2	BB	9	0.98%	1.06%	7,537	7,283	19	-	0.91					
Non-investment grade	S-3	>1.54 to ≤ 2.74	Ba3	BB-	10	1.77%	1.75%	3,872	3,560	17	-	1.47					
Non-investment grade	S-4	>2.74 to ≤ 5.16	B1	B+	11	2.74%	2.74%	3,224	2,812	18	-	2.20					
Watchlist	P-1	>5.16 to ≤ 9.70	B2	В	12	6.33%	6.88%	554	420	19	-	7.04					
Watchlist	P-2	>9.70 to ≤ 18.23	B3	B-	13	14.23%	14.01%	829	777	52	-	14.70					
Watchlist	P-3	>18.23 to < 100.00	Caa/Ca	CCC/CC	14	20.14%	20.14%	142	181	6	-	20.63					
Default	Default	100.00 (Default)	С	C/D	15	100.00%	100.00%	-	-	-	-	0.00					
Sub-total					16			43,935	45,021	169	2						
Sovereign			•							•							
Investment grade	I-1	≤ 0.02	Aaa	AAA	17	0.00%	0.01%	32	28	-	-	0.00					
Investment grade	1-2	>0.02 to ≤ 0.03	Aa1/Aa2/Aa3	AA+/AA/AA-	18	0.03%	0.02%	394	372	-	-	0.00					
Investment grade	I-3	>0.03 to ≤ 0.07	A1/A2	A+/A	19	0.04%	0.04%	599	605	-	-	0.00					
Investment grade	1-4	>0.07 to ≤ 0.11	A3	A-	20	0.07%	0.08%	521	503	1	-	0.02					
Investment grade	I-5	>0.11 to ≤ 0.19	Baa1	BBB+	21	0.11%	0.12%	318	290	_	_	0.00					
Investment grade	1-6	>0.19 to ≤ 0.32	Baa2	BBB	22	0.20%	0.21%	99	104	_	_	0.00					
Investment grade	1-7	>0.32 to ≤ 0.54	Baa3	BBB-	23	0.32%	0.32%	102	89	_	_	0.00					
Non-investment grade	S-1	>0.54 to ≤ 0.91	Ba1	BB+	24	0.61%	0.62%	62	68	_	_	0.00					
Non-investment grade	S-2	>0.91 to ≤ 1.54	Ba2	BB	25	1.07%	1.06%	56	69	_	_	0.00					
Non-investment grade	S-3	>1.54 to ≤ 2.74	Ba3	BB-	26	1.76%	1.74%	38	33	_	_	0.00					
Non-investment grade	S-4	>2.74 to ≤ 5.16	B1	B+	27	2.74%	2.74%	44	58	_	_	0.00					
Watchlist	P-1	>5.16 to ≤ 9.70	B2	В	28	6.29%	6.92%	10	1	_	_	0.00					
Watchlist	P-2	>9.70 to ≤ 18.23	B3	B-	29		13.95%	5	3	_	_	0.00					
Watchlist	P-3	>18.23 to < 100.00	Caa/Ca	CCC/CC	30		0.00%	_		_	_	0.00					
Default	Default	100.00 (Default)	C	C/D	31	100.00%	100.00%	_	_	_	_	0.00					
Sub-total		(= 0.00.00)	1		32			2,280	2,223	1	-						
Bank	1		1	1				_,				1					
Investment grade	I-1	≤ 0.02	-	-	33	0.00%	0.00%	_	_	-	-	0.00					
Investment grade	I-2	>0.02 to ≤ 0.03	Aaa/Aa1/Aa2/Aa3	AAA/AA+/AA/AA-	34		0.03%	17	8	_	_	0.00					
Investment grade	1-3	>0.02 to ≤ 0.07	A1/A2	A+/A	35		0.05%	39	52	_	_	0.05					
Investment grade	1-4	>0.07 to ≤ 0.11	A3	A-	36		0.07%	71	58	_	_	0.00					
Investment grade	I-5	>0.11 to ≤ 0.19	Baa1	BBB+	37	0.11%	0.11%	44	58	_	_	0.06					
Investment grade	I-6	>0.19 to ≤ 0.32	Baa2	BBB	38		0.19%	97	77	_	_	0.05					
Investment grade	1-7	>0.32 to ≤ 0.54	Baa3	BBB-	39		0.32%	74	74	_	_	0.07					
Non-investment grade	S-1	>0.52 to ≤ 0.54 >0.54 to ≤ 0.91	Ba1	BB+	40	0.55%	0.56%	43	28]	_	0.09					
Non-investment grade	S-2	>0.91 to ≤ 1.54	Ba2	BB	41	0.91%	0.95%	22	18]	_	0.34					
Non-investment grade	S-3	>1.54 to ≤ 2.74	Ba3	BB-	42	1.54%	1.57%	17	22]]	0.15					
Non-investment grade	S-4	>2.74 to ≤ 5.16	B1	B+	43		2.74%	22	21]	_	0.31					
Watchlist	P-1	>5.16 to ≤ 9.70	B2	В	44	0.00%	0.00%	1]	_	0.00					
Watchlist	P-2	>9.70 to ≤ 18.23	B3	B-	45		9.70%		1			2.94					
Watchlist	P-3	>18.23 to < 100.00	Caa/Ca	CCC/CC	46		0.00%		l <u>'</u>]		0.00					
Default	Default	100.00 (Default)	Caa/Ca	C/D	47	0.00%	0.00%	_	-	1	_	0.00					
Sub-total	Delault	100.00 (Delault)	+	O/D	48		0.00%	448	417	-	-	0.00					
Total (all wholesale portfolios)	1	<u> </u>	+		49			46,663	47,661	170	2						

⁽¹⁾ The results shown in the table cover all models within these asset classes.

⁽²⁾ Calculated as the obligor PD weighted by EAD.

⁽³⁾ Obligor count for Wholesale portfolios is at the borrower level, excluding defaulted obligors.

⁽⁴⁾ Calculated as the number of obligors having defaulted during the last 12-month period that were not funded at the end of the previous year.

⁽⁵⁾ Wholesale portfolios use 16 year average of the annual default rate.



Advanced Internal Ratings Based (AIRB) Approach: The AIRB Approach is the most advanced of the range of options for determining the capital requirements for credit risk. This option allows banks to use their own internal models to measure credit risk capital requirements, subject to regulatory approval. OSFI has indicated that it expects the largest Canadian Banks to adopt the AIRB Approach.

Basel Capital Floor: A capital floor is measured based on the Basel Standardized Approach for credit risk and internal model for market risk, as prescribed by OSFI in CAR.

Central Counterparty (CCP): A clearing house that acts as an intermediary between counterparties for contracts traded in one or more financial markets. CCPs aim to mitigate risk through the use of margin requirements (both initial and variation) and a default management process, including a default fund and other resources. A CCP becomes a counterparty to trades with market participants through novation, an open offer system, or another legally binding arrangement. For the purposes of the capital framework, a CCP is a financial institution.

Common Equity Tier 1 (CET1): Primarily comprised of common shares, surplus resulting from the issue of instruments included in Common Equity Tier 1, retained earnings, and accumulated other comprehensive income. Regulatory CET1 deductions include: goodwill, intangible assets, pension assets, certain deferred tax asset and other items.

Credit valuation Adjustment (CVA): The adjustment that a bank must add as a capital charge to cover the risk of mark-to-market losses on the expected counterparty risk to OTC derivatives.

Drawn: The amount of funds invested or advanced to a customer.

Exposure at Default (EAD): EAD for on-balance sheet amounts represents outstandings, grossed up by provisions for credit losses on impaired loans and write-offs. EAD for undrawn and other off-balance sheet are estimated using Credit Conversion Factors (CCFs).

Loss Given Default (LGD): A measure of economic loss, the amount that may not be recovered in the event of a default, presented as a proportion of the exposure at default.

Probability of Default (PD): Represents the likelihood that a borrower or counterparty will go into default within a one-year time horizon.

Qualifying Central Counterparty (QCCP): An entity that is licensed to operate as a central counterparty (CCP) and is permitted by the appropriate regulator/overseer to operate as such with respect to the products offered.

Risk-Weighted Assets (RWA): A measure of a bank's exposures, weighted for their relative risk and calculated in accordance with OSFI's regulatory capital rules.

Securities Financing Transactions (SFT): Transactions such as repurchase agreements, reverse repurchase agreements, security lending and borrowing, which are also referred to as Repo-Style transactions, and wholesale margin lending transactions.

Standardized Approach (SA): An approach that allows banks to measure capital requirements by multiplying exposures by defined percentages based on the exposures product type and external credit rating (if applicable).

Total Loss Absorbing Capital (TLAC): The sum of Tier 1 capital, Tier 2 Capital, and Prescribed Shares and Liabilities ("Other TLAC Instruments") that are subject to conversion - in whole or in part - into common shares pursuant to subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act and meet all of the eligibility criteria set out in this guideline.

Undrawn Commitments: The unutilized authorizations associated with the drawn loans, including those which are unconditionally cancellable.