Supplementary Regulatory Capital Information

For the Quarter Ended - July 31, 2022

For further information, contact:

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

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NOTES TO USERS

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 Third Quarter 2022 Report to Shareholders and the 2021 Annual Report available on SEDAR at www.sedar.com and BMO's website at www.bmo.com/investorrelations.

Additional financial information is also available in the Q3 2022 Supplementary Financial Information, and the Q3 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	Q3 2022 Supplementary Financial Information	Q3 2022 Supplementary Regulatory Capital Information	2021 Annual MD&A	2021 Annual Financial Statements
				Page Re	ference	
Overview of Risk Management, Key	KM2 - Key metrics - TLAC requirements	Quarterly		7		
Prudential Metrics and RWA	OVA - Bank risk management approach	Annual			65-72, 74-113	
	OV1 - Overview of RWA	Quarterly		11		
Linkages between Financial	LI1 - Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories	Quarterly		12		
Statements and Regulatory Exposures	LI2 - Main sources of differences between regulatory exposure amounts and carrying values in financial statements	Quarterly		13		
	LIA - Explanations of differences between accounting and regulatory exposure amounts	Annual		12-13	116	188-194
	CCA - Main features of regulatory capital instruments and other TLAC - eligible instruments (1)	Quarterly				
	CC1 - Composition of regulatory capital	Quarterly		3-4		
Composition of Capital and TLAC	CC2 - Reconciliation of regulatory capital to balance sheet	Quarterly		5		
- prove opposite of the second s	TLAC1 - TLAC composition	Quarterly		8		
	TLAC2 - Material subgroup entity - creditor ranking at legal entity level		1	Not applicable to BM	0	1
	TLAC3 - Resolution entity - creditor ranking at legal entity level	Quarterly		9		
Leverage Ratio	LR1 - Summary comparison of accounting assets vs leverage ratio exposure measure	Quarterly		10		
	LR2 - Leverage ratio common disclosure	Quarterly		10		
	CRA - General qualitative information about credit risk	Annual			78-84	
	CR1 - Credit quality of assets	Quarterly		14		
	CR2 - Changes in stock of defaulted loans and debt securities	Quarterly		15		
	CRB - Additional disclosures related to the credit quality of assets - Qualitative disclosures	Annual		14	114-116	155, 160-166
	CRB - Additional disclosures related to the credit quality of assets - Quantitative disclosures	Quarterly	26-32, 34	14, 32-34		
	CRC - Qualitative disclosure requirements related to credit risk mitigation techniques	Annual			84-86	177, 189
	CR3 - Credit risk mitigation techniques - overview	Quarterly		16		
Credit Biels	CRD - Qualitative disclosures on banks' use of external credit ratings under the standardized approach for credit risk	Annual		19-20	86-87	
Credit Risk	CR4 - Standardized approach - credit risk exposure and Credit Risk Mitigation (CRM) effects	Quarterly		17-18		
	CR5 - Standardized approach - exposures by asset classes and risk weights	Quarterly		19-20		
	CRE - Qualitative disclosures related to IRB models	Annual		32	85-87, 108	
	CR6 - IRB - Credit risk exposures by portfolio and PD range	Quarterly		21-30		
	CR7 - IRB - Effect on RWA of credit derivatives used as CRM techniques	Quarterly	Impact is in	mmaterial and has been	disclosed in page 32	, footnote 3.
	CR8 - RWA flow statements of credit risk exposures under IRB	Quarterly		31		
	CR9 - IRB - Backtesting of probability of default (PD) per portfolio (2)	Annual			86-87, 108	
	CR10 - IRB (specialized lending and equities under the simple risk-weight method)			Not applicable to BM	0	
	CCRA - Qualitative disclosure related to counterparty credit risk	Annual			84-85, 101	
	CCR1 - Analysis of counterparty credit risk (CCR) exposure by approach	Quarterly		35		
	CCR2 - Credit valuation adjustment (CVA) capital charge	Quarterly		36		
	CCR3 - Standardized approach - CCR exposures by regulatory portfolio and risk weights	Quarterly		37-38		
Counterparty Credit Risk	CCR4 - IRB - CCR exposures by portfolio and PD scale	Quarterly		39-43		
	CCR5 - Composition of collateral for CCR exposure	Quarterly		44		
	CCR6 - Credit derivatives exposures	Quarterly		45		
	CCR7 - RWA flow statements of CCR exposures under Internal Model Method (IMM)	,		Not applicable to BM	0	
	CCR8 - Exposures to central counterparties	Quarterly		46		
	SECA - Qualitative disclosure requirements related to securitization exposures	Annual			72-73, 85	151, 156, 168-170
	SEC1 - Securitization exposures in the banking book	Quarterly		49-50		
Que established in the second	SEC2 - Securitization exposures in the trading book	Quarterly		51-52		
Securitization	SEC3 - Securitization exposures in the banking book and associated regulatory capital requirements (bank acting as originator or as sponsor)	Quarterly		53-54		
	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	quality				
	MRB - Qualitative disclosure for banks using the Internal Models Approach (IMA)					
	MR1 - Market risk under standardized approach	BMO has deferred these disclosures as allowed per OSFI's Pillar 3 guidance issued April 2017				
Market Risk	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					
Operational Risk	General qualitative information on a bank's operational risk framework	Annual	1	1	106-108	
	Qualitative disclosures on IRRBB	Annual			95	<u> </u>
Interest Rate Risk in the Banking Book	Qualitative disclosures on IRRBB	Annual			95	
Macroprudential supervisory measures	GSIB1 - Disclosures on IRRBB GSIB1 - Disclosure of global systemically important bank (G-SIB) indicators (3)	Annual	Dicele	sed in the Q1 2022 Rep		200.34
macroprudential supervisory measures	וסוכאט - ו סופט וואטוע איז איז איז איז איז איז אוואט איז א איז א איז א איז א איז א איז איז א	Annual	Disclos	seu in the Q1 2022 Rep	on to Shareholders, p	aye 34.

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

(2) Refer to Q4 2021 Supplementary Regulatory Capital Information for CR9 - IRB - Backtesting of probability of default (PD) per portfolio quantitative disclosure.

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

Common Equity Ter 1 Capital instruments and reserves	CC1 - COMPOSITION OF REGULATORY CAPITAL (1)					BMO 🔷 Fir	nancial Group
1Desch isold quality accord on the related as related stoke surplus $a+b$ $17,777$ $17,356$ $13,344$ $13,947$ <	(\$ millions except as noted)		Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
c c cC the link is during the memory income provide income	Common Equity Tier 1 Capital: instruments and reserves						
S Common share and assess (by substantiate and herd by the parties (anount allowed in group CET1) $$ </td <td>1 Directly issued qualifying common share capital plus related stock surplus</td> <td></td> <td></td> <td>17,356</td> <td></td> <td></td> <td>13,919</td>	1 Directly issued qualifying common share capital plus related stock surplus			17,356			13,919
5Common share could be under serve and by understates and hold by throatine (mount allowed in group CET1) $$ $-$	2 Retained earnings	ç		41,275	37,513		34,089
S Common share and assess (by substantiate and herd by the parties (anount allowed in group CET1) $$ </td <td>3 Accumulated other comprehensive income (and other reserves)</td> <td>d</td> <td></td> <td></td> <td></td> <td></td> <td>3,840</td>	3 Accumulated other comprehensive income (and other reserves)	d					3,840
6 Common Equity Tier 1 Capital Service and a status of a statu	4 Directly issued capital studiet, to priase out inform CE 1 (3) 5 Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)		n.a.	n.a.	n.a.	n.a.	n.a
Common Equity Tier 1 Capital: regulatory adjustments			61,286	59.884	54,246	51,965	51,848
7 Productial valuation adjustments 94-1 114 119 100 83 0 Opcound (r) related tas liability) 114 115.57 116.57 <td></td> <td></td> <td>. ,</td> <td>,</td> <td></td> <td>,</td> <td>- ,-</td>			. ,	,		,	- ,-
9 Other intrigibles other than nonlings-servicing rights (not of related tax liability) h-i 1.737 1.826 1.431 1.923 Definition to assets servicing rights (not of related tax liability) iii (2,508) (2,374) (431) 1.826 2 Stortali of provisions to expected losses m - - - - 3 Defined torrell provisions to expected losses m - - - - 3 Defined torrell provisions to expected losses m - - - - 3 Defined torrell provisions to expected losses m - - - - 4 Defined torrell provisions to expected losses m - - - - 5 Defined torrell provisions for thore anany more obset loss m -			134	119	108	88	88
10 Deferred tax assess excluding these sings from temporary differences (not of elated tax liability) j, k 3, d, 1 1, 4, 13 20 Stant function responses due to changes in our credit field on far valued liabilities m		e+f-g					5,27
11 Cash Ray hedge reserve 1 (2.974) (431) 185 Submitting (organize to be deted) toosing (include assets) (not predicted tax lability) 831 420 (201) (202) Defined completing person (not predicted tax lability) 831 420 (201) (202) Defined completing person (not predicted tax lability) 9 - - - - 17 Reciprocal cross holdings in common equity p - - - - - - - 18 Note-significat investments in the common stock of banking, financial and insurance entities, net of eligible short positions (financial and insurance entities that are outside the scope of regulatory and pints (mount above 10%; threshold) -	9 Other intangibles other than mortgage-servicing rights (net of related tax liability)		1,737	1,826			1,956
12 Shortfail of provisions to expected bases m 3burdfail of provisions to expected bases m		J-K	(2,508)	(2 074)		13	1,308
16 Gains or losses due to changes in our credit risk on far valued labilities n-o 881 4.20 (201) (202) 17 Reciprocal cross holdings in common equity p - - - - 17 Reciprocal cross holdings in common equity p - - - - - - 18 Reciprocal cross holdings in common stock of banking, financial and insurance entities that are outside the scope of regulatory consolication, regulatory solication, regulatory sol	Cash now nedge reserve Shortfall of provisions to expected losses	m n	(2,506)	(2,974)	(431)	165	1,300
16 Gains or losses due to changes in our credit risk on far valued labilities n-o 881 4.20 (201) (202) 17 Reciprocal cross holdings in common equity p - - - - 17 Reciprocal cross holdings in common equity p - - - - - - 18 Reciprocal cross holdings in common stock of banking, financial and insurance entities that are outside the scope of regulatory consolication, regulatory solication, regulatory sol	13 Securitization gain on sale		_		_	_	
16 Investments in own shares (if not already notified of paid-in capital on sported balance sheet) p	14 Gains or losses due to changes in own credit risk on fair valued liabilities				(201)	(320)	(330 557 24
18 Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) - - - - 19 Significant investments in the of eligible short positions (amount above 10% threshold) -	15 Defined benefit pension fund net assets (net of related tax liability)		900	1,026		704	55
10 Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold)	To investments in own snares (if not already netted of paid-in capital on reported balance sneet)	р	_	—			
Image: Instrument above 10% threshold) Image: Ima			_	_	_		_
19 Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolitation, more indication above 10% threshold, net of related tax liability)			—	—	_		
regulatory consolitation, net of eligible short positions (amount above 10% threshol) — …	19 Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of						
1 Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability)	regulatory consolidation, net of eligible short positions (amount above 10% threshold)		—	—	-		-
23 of which: significant investments in the common stock financials	20 Mortgage servicing rights (amount above 10% threshold)			—			-
23 of which: significant investments in the common stock financials	21 Deterred tax assets ansing from temporary differences (amount above 10% threshold, net of related tax liability)			—			
27 deductions Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions - -	22 Another exceeding the 10% interstold			_		_	
27 deductions Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions - -	24 of which: mortgage servicing rights			_			
27 deductions Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions - -	25 of which: deferred tax assets arising from temporary differences						
Image: Common Equity Tier 1 Capital (ET1) Image: Common Equ		P	(150)	(133)	(152)	(326)	(40
Image: 28 Criai regulatory adjustments to Common Equity Tier 1 Capital (CET1) 6.822 5.109 6.636 7.474 29 Common Equity Tier 1 Capital (CET1) 55.644 54.775 47.610 44.491 4 29 Common Equity Tier 1 Capital (CET1) transmitter 1 maximum the plus related stock surplus r 55.314 54.642 47.458 44.165 4 30 Directly issued qualifying Additional Tier 1 instruments plus related stock surplus r 5.308 5.208 4.958 5.558 31 of which: classified as liabilities under applicable accounting standards - <td></td> <td></td> <td>_</td> <td>—</td> <td>_</td> <td></td> <td> _</td>			_	—	_		_
129 Common Equity Tier 1 Capital (CET1) 1 1 129a Common Equity Tier 1 Capital (CET1) 44.491 4 129a Common Equity Tier 1 Capital : Instruments 55.314 54.642 47.458 44.161 4 200 Directly issued quality inder applicable accounting standards r 5.308 5.208 4.958 5.558 31 of which: classified as equity under applicable accounting standards -			5 822	5 109	6 636	7 /7/	8,499
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30 Directly issued qualitying Additional Tier 1 instruments plus related stock surplus r 5,308 5,208 4,958 5,558 31 of which: classified as equity under applicable accounting standards -				01,012	,	,	,
32 of which: classified as liabilities under applicable accounting standards. - - - - 33 Directly issued capital instruments subject to phase out from Additional Tier 1 (3) s n.a. n.a. n.a. n.a. 34 Additional Tier 1 instruments (and CET 1 instruments not included in row 5) issued by subsidiaries and held by third - - - - 35 Directly issued capital instruments (support 0) phase out from Additional Tier 1 (asplital before regulatory adjustments - - - - 36 Additional Tier 1 Capital before regulatory adjustments 5,308 5,208 4,955 5,558 37 Investments in on Additional Tier 1 instruments t 10 6 9 5 38 Reciprocal cross holdings in Additional Tier 1 instruments t 10 6 9 5 39 Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions - - - - 34 Of the deductions from Tier 1 Capital as determined by OSFI - - - - 34 of which: Reverse mortgages - - - - 35 Additional Tier 1 Capital as differentmented by OSFI - - - 36<	30 Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	r	5,308	5,208	4,958	5,558	5,558
34 Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third -	31 of which: classified as equity under applicable accounting standards		5,308	5,208	4,958	5,558	5,558 5,558
34 Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third -	32 of which: classified as liabilities under applicable accounting standards		_		_		-
arties (amount allowed in group AT1) — …		s	n.a.	n.a.	n.a.		-
35 of which: instruments issued by subsidiaries subject to phase out (3) n.a.			_	_	_	_	
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37 Investments in own Additional Tier 1 instruments t 10 6 9 5 38 Reciprocal cross holdings in Additional Tier 1 instruments - - - - 39 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 - - - - - 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 u 78 78 78 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 - <td< td=""><td></td><td></td><td></td><td></td><td></td><td>5,558</td><td>5,558</td></td<>						5,558	5,558
38 Reciprocal cross holdings in Additional Tier 1 instruments — …<	Additional Tier 1 Capital: regulatory adjustments						
39 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 (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 (amount above 10% threshold) (amount above 10% threshold)<	37 Investments in own Additional Tier 1 instruments	t	10	6	9	5	:
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41a of which: Reverse mortgages — … <t< td=""><td>41 Other deductions from Tier 1 Capital as determined by OSFI</td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td></t<>	41 Other deductions from Tier 1 Capital as determined by OSFI		_	_	_	_	_
43 Total regulatory adjustments applied to Additional Tier 1 Capital 88 84 87 83 44 Additional Tier 1 Capital (AT1) 5,220 5,124 4,871 5,475 45 Tier 1 Capital (T1 = CET1 + AT1) 60,684 59,899 52,481 49,966 4 45a Tier 1 Capital with transitional arrangements for ECL provisioning not applied 60,534 59,766 52,329 49,640 4 46 Directly issued qualifying Tier 2 instruments and provisions 0 7,296 7,242 8,335 6,747 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) w n.a. n.a. n.a. 141 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 out (3) n.a. n.a. n.a. n.a. -	41a of which: Reverse mortgages		—	—			
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45 Tier 1 Capital (T1 = CET1 + AT1) 60,684 59,899 52,481 49,966 4 45a Tier 1 Capital with transitional arrangements for ECL provisioning not applied 60,534 59,766 52,329 49,640 4 46 Directly issued qualitying Tier 2 instruments plus related stock surplus v 7,296 7,242 8,335 6,747 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) w n.a. n.a. n.a. 141 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by w n.a. n.a. n.a. - 49 of which: instruments issued by subsidiaries subject to phase out (3) n.a. n.a. n.a. - -							8
45a Tier 1 Capital with transitional arrangements for ECL provisioning not applied 60,534 59,766 52,329 49,640 4 46 Directly issued qualifying Tier 2 instruments plus related stock surplus v 7,296 7,242 8,335 6,747 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) w n.a. n.a. n.a. 141 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by w n.a. n.a. 141 49 of which: instruments issued by subsidiaries cout (3) n.a. n.a. n.a. -			-, -				5,47
Tier 2 Capital: instruments and provisions v 7,296 7,242 8,335 6,747 46 Directly issued qualifying Tier 2 instruments plus related stock surplus w n.a. n.a. n.a. 141 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) w n.a. n.a. n.a. 141 48 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. -			,	,		.,	48,820
46 Directly issued qualifying Tier 2 instruments plus related stock surplus v 7,296 7,242 8,335 6,747 47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) w n.a. n.a. 141 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by w n.a. n.a. 141 49 of which: instruments issued by subsidiaries subject to phase out (3) n.a. n.a. n.a. -			60,534	59,766	52,329	49,640	48,42
47 Directly issued capital instruments subject to phase out from Tier 2 Capital (3) w n.a. n.a. n.a. 141 48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by w n.a. n.a. n.a. 141 49 of which: instruments issued by subsidiaries subject to phase out (3) w n.a. n.a. n.a. -					0.007		
48 Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by	46 Directly issued qualifying Tier 2 instruments plus related stock surplus						6,82
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		w	n.a.	n.a.	n.a.	141	14
49 of which: instruments issued by subsidiaries subject to phase out (3) n.a. n.a. n.a			—	—	_	–	-
			na	na	na		_
	50 General allowances	x	203	248	284	398	460
	51 Tier 2 Capital before regulatory adjustments						7,428

Rev 2 of parts 2 of

(3) Q3 2021 and Q4 2021 include 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.

CC1 - COMPOSITION OF REGULATORY CAPITAL (CONTINUED)

		Cross					
(\$ m	illions except as noted)	reference	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
	Tier 2 Capital: regulatory adjustments						
52	Investments in own Tier 2 instruments	У	_	1	_	1	1
53	Reciprocal cross holdings in Tier 2 instruments and Other TLAC-eligible instruments		_	_	_	_	_
	Non-significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible						
54	instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, where the 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						
	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		_	_	_	_	_
	Significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments						
55	issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, net of eligible short positions	z	50	50	50	50	50
56	Other deductions from Tier 2 capital		_	_	_	_	_
57	Total regulatory adjustments to Tier 2 Capital		50	51	50	51	51
58	Tier 2 Capital (T2)		7,449	7,439	8,569	7,235	7,377
59	Total Capital (TC = T1 + T2)		68,133	67,338	61.050	57,201	56,203
59a	Total Capital with transitional arrangements for ECL provisioning not applied		68,133	67,338	61,050	57,201	56,203
	Total Risk-Weighted Assets		,	,	. ,	. , .	,
	Common Equity Tier 1 (CET 1) Capital RWA (1)		351,711	342,287	337,652	325,433	322,529
	Tier 1 Capital RWA (1)		351.711	342.287	337.652	325,433	322.529
	Total Capital RWA (1)		351,711	342,287	337,652	325,433	322,529
	Capital Ratios			0.2,20.	001,002	020,100	012,020
61	Common Equity Tier 1 (as percentage of risk-weighted assets)		15.8%	16.0%	14.1%	13.7%	13.4%
61a	CETI Ratio with transitional arrangements for ECL provisioning not applied		15.7%	16.0%	14.1%	13.6%	13.3%
62	Tier 1 (as percentage of risk-weighted assets)		17.3%	17.5%	15.5%	15.4%	15.1%
62a	Tier 1 Capital Ratio with transitional arrangements for ECL provisioning not applied		17.2%	17.5%	15.5%	15.3%	15.0%
63	Total Capital (as percentage of risk-weighted assets)		19.4%	19.7%	18.1%	17.6%	17.4%
63a	Total Capital Ratio with transitional arrangements for ECL provisioning not applied		19.4%	19.7%	18.1%	17.6%	17.4%
64	Buffer (minimum CET1 plus capital conservation buffer plus G-SIB buffer plus D-SIB buffer requirement, expressed		0.00/	0.001	0.00/	0.001	0.001
	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)		15.8%	16.0%	14.1%	13.7%	13.4%
	OSFI target (minimum + capital conservation buffer + D-SIB buffer (if applicable))		0.00/	0.00/	0.00/	0.00/	0.00/
69	Common Equity Tier 1 target ratio		8.0%	8.0%	8.0%	8.0%	8.0%
70	Tier 1 capital target ratio Total capital target ratio		9.5% 11.5%	9.5% 11.5%	9.5% 11.5%	9.5% 11.5%	9.5% 11.5%
_ / 1			11.5%	11.5%	11.5%	11.5%	11.5%
72	Amounts below the thresholds for deduction (before risk weighting) Non-significant investments in the capital and Other TLAC-eligible instruments of other financial entities	a1 - b1	1,108	1,048	1,364	822	911
72	Significant investments in the common stock of financials	c1	2,124	2,092	2,209	2,081	2,003
74	Mortgage servicing rights (net of related tax liability)	d1	2,124	2,092	32	2,001	2,003
75	Deferred tax assets arising from temporary differences (net of related tax liability)	e1 - f1	1,685	1,581	1,661	1,899	1,763
10	Applicable caps on the inclusion of provisions in Tier 2		1,000	1,001	1,001	1,000	1,700
76	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardized approach (prior to						
	application of cap)		109	107	115	231	246
77	Cap on inclusion of provisions in Tier 2 under standardized approach		109	107	115	231	246
78	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings based approach (prior to application of cap)		1,977	1,947	2,039	2,039	2,225
79	Cap on inclusion of provisions in Tier 2 under internal ratings-based approach		244	274	321	492	614
	Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2013 and 1 Jan 2022)						
80	Current cap on CET1 instruments subject to phase out arrangements		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.	_	_
82	Current cap on AT1 instruments subject to phase out arrangements		n.a.	n.a.	n.a.	432	432
83	Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities)		n.a.	n.a.	n.a.	—	_
84	Current cap on T2 instruments subject to phase out arrangements		n.a.	n.a.	n.a.	513	513
85	Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities)		n.a.	n.a.	n.a.	—	—

(1) The Bank is subject to a capital floor as prescribed in OSFI's CAR Guideline. In calculating regulatory capital ratios, there is a requirement to increase total RWA when a capital floor amount calculated under the Standardized Approach is higher than a similar calculation using the more risk-sensitive advanced approach rules. At July 31, 2022, a Basel Capital Floor adjustment of \$2,544 million (\$7,848 million at April 30, 2022, \$nil at January 31, 2022, \$nil at January 31, 2022, a Basel Capital Floor adjustment of \$2,544 million (\$7,848 million at April 30, 2022, \$nil at January 31, 2022, \$nil at January 31, 2022, \$nil at January 31, 2022, a Basel Capital Floor adjustment of \$2,544 million (\$7,848 million at April 30, 2022, \$nil at January 31, 2021, \$nil at January 31, \$nil at J

CC2 - RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET

CC2 - RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET									4
(\$ millions)	LINE #	Balance sheet as in Report to Shareholders Q3 2022	Under regulatory scope of consolidation (1) Q3 2022	Cross Reference (2)		LINE #	Balance sheet as in Report to Shareholders Q3 2022		
		QJ 2022	QJ 2022	(-/			Q3 2022	QJ 2022	-
Assets					Liabilities and Equity			700.005	
Cash and Cash Equivalents	1	69,586	69,476		Deposits	40	729,385	729,385	+
Interest Bearing Deposits with Banks	2	7,317	7,312		Other Liabilities			10.450	
Securities	3	265,614	256,585		Derivative instruments	41	43,643		
Investments in own shares CET1 (if not already netted off paid-in capital on reported balance sheet)	4			р	Acceptances	42	12,615		
Investments in own Additional Tier 1 instruments not derecognized for accounting purposes	5		10	l t	Securities sold but not yet purchased	43	41,187	27.506	
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			
Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities (3)	7		28,614	a1	Securities lent or sold under repurchase agreements	45	100,646		
Significant investments in the common stock of financials exceeding regulatory thresholds (4)	8				Securitization and structured entities' liabilities	46	25,020		
Significant investments in the common stock of financials not exceeding regulatory thresholds (4)	9		2,124	c1	Current tax liabilities	47	232		
Goodwill embedded in significant investments	10		55	e	Deferred tax liabilities (5)	48	81	225	
Significant investments in the Additional Tier 1 instruments of banking, financial and insurance entities that are					related to goodwill	49		393	
outside the scope of regulatory consolidation	11		78	u	related to intangibles	50		393	
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		300	
the scope of regulatory consolidation	12		50	z	related to deferred tax assets excluding those arising from temporary differences	52		748	
Securities Borrowed or Purchased Under Resale Agreements	13	108,391	108,391		related to deferred tax assets arising from temporary differences	53			
Loans					Other	54	41,092		
Residential mortgages	14	144,076	144,076		Total other liabilities	55	264,516	252,626	+
Consumer instalment and other personal	15	84,337	84,337		Subordinated Debt			7.440	
Credit cards	16	9,132	9,132		Subordinated debt	56	7,443	7,443	
Business and government	17	287,669	287,375		Directly issued qualifying subordinated debt	57		7,296	
Allowance for credit losses	18	(2,412)	(2,411)		Directly issued subordinated debt subject to phase out	58	<u> </u>		_
Transitional arrangements for capital treatment of ECL provisioning included in CET1	19		(150)	q	Equity			5 700	
Allowance reflected in Tier 2 regulatory capital	20		(203)	x	Preferred shares and other equity instruments	59	5,708	5,708 5,308	
Shortfall of provisions to expected loss	21		_	m	Directly issued qualifying Additional Tier 1 instruments	60		5,308	
Total net loans	22	522,802	522,509		Directly issued Additional Tier 1 instruments subject to phase out	61		17.392	
Other Assets					Common shares	62	17,392		
Derivative instruments	23	39,717	39,714		Contributed surplus	63	315		
Customers' liability under acceptances	24	12,615	12,615		Retained earnings	64	41,653		
Premises and equipment	25	4,604	4,508		Accumulated other comprehensive income	65	1,926	1,926 (2,508)	
Goodwill	26	4,995	4,995	f	of which: Cash flow hedges	66			4
Intangible assets	27	2,130	2,130	h	Total Equity	67	66,994		+
Current tax assets	28	1,545	1,545		Total Liabilities and Equity	68	1,068,338	1,050,446	
Deferred tax assets (5)	29	794	797						
Deferred tax assets excluding those arising from temporary differences	30		5	l i					
Deferred tax assets arising from temporary differences	31		2,433						
of which: exceeding regulatory thresholds	32								
of which: not exceeding regulatory thresholds	33		2,433	e1					
Other	34	28,228	25,871						
Defined-benefit pension fund net assets	35		1,258	l u					
Mortgage servicing rights	36		35						
of which: exceeding regulatory thresholds	37								
of which: not exceeding regulatory thresholds	38		35	d1	1				

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 (\$13,295 million assets and \$1,495 million equity) covers the development and marketing of individual life, critical lilness and annuity products as well as segregated funds. It also offers group creditor and travel insurance to bank customers in Canada. BMO Reinsurance Limited (\$258 million assets and \$117 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.

39

1,068,338

1,056,448

(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 investments, 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.

BMO 🖄 Financial Group

Cross eferenc (2)

b1

g i k f1

v w

r s b c d

FLOW STATEMENT OF BASEL III REGULATORY CAPITAL					BMO 😫 Fin	ancial Group
(\$ millions)	LINE #	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Common Equity Tier 1 Capital						
Opening Balance	1	54,775	47,610	44,491	43,349	41,415
New capital issues	2	358	3,428	22	23	40
Redeemed capital or Treasury Shares	3	(4)	(15)	4	(33)	33
Gross dividends and distributions (deduction)	4	(985)	(946)	(917)	(747)	(747)
Net Income	5	1,365	4,756	2,933	2,159	2,275
Removal of own credit spread (net of tax)	6	(461)	(621)	(119)	(10)	(26
Movements in other comprehensive income						
Currency translation differences	7	(102)	258	709	(195)	382
Fair value through other comprehensive income securities	8	(11)	(232)	(88)	(148)	24
Other (1)	9	320	982	228	182	76
Goodwill and other intangible assets (deduction, net of related tax liability)	10	88	(57)	537	103	(39
Other, including regulatory adjustments and transitional arrangements						
Deferred tax assets that rely on future profitability (excluding those arising from temporary differences)	11	(2)	13	(1)	7	10
Prudential valuation adjustments	12	(15)	(11)	(20)	_	(24
Other (2)	13	138	(390)	(169)	(199)	(70
Closing Balance	14	55,464	54,775	47,610	44,491	43,349
Other non-core Tier 1 (Additional Tier 1) Capital						
Opening Balance	15	5,124	4,871	5,475	5,477	5,765
New non-core tier 1 (Additional Tier 1) eligible capital issues	16	500	750	-	-	-
Redeemed capital	17	(400)	(500)	(600)	-	(290
Other, including regulatory adjustments and transitional arrangements (3)	18	(4)	3	(4)	(2)	2
Closing Balance	19	5,220	5,124	4,871	5,475	5,477
Total Tier 1 Capital	20	60,684	59,899	52,481	49,966	48,826
Tier 2 Capital						
Opening Balance	21	7,439	8,569	7,235	7,377	6,303
New Tier 2 eligible capital issues	22	_	_	1,587	_	1,000
Redeemed capital	23	_	(850)	_	_	_
Amortization adjustments	24			_	_	-
Other, including regulatory adjustments and transitional arrangements (4)	25	10	(280)	(253)	(142)	74
Closing Balance	26	7,449	7,439	8,569	7,235	7,37
Total Regulatory Capital	27	68,133	67,338	61,050	57,201	56,203

(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					
	#	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Bank of Montreal Mortgage Corporation - Basel III (1)						
Common Equity Tier 1 ratio	1	18.3%	19.2%	18.2%	22.1%	22.4%
Tier 1 ratio	2	18.3%	19.2%	18.2%	22.1%	22.4%
Total capital ratio	3	18.3%	19.2%	18.2%	22.2%	22.5%
BMO Harris Bank N.A Basel III (2)						
Tier 1 ratio	4	11.5%	11.8%	11.8%	13.5%	13.4%
Total capital ratio	5	12.6%	13.0%	13.1%	14.8%	14.8%

(1) Q3 2021 and 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: June 2022, March 2022, December 2021, September 2021 and June 2021.

KN	12 - KEY METRICS – TLAC REQUIREMENTS (1) (2)				BMO 🔷 Fin	ancial Group
		Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
(\$	nillions except as noted)	а	b	С	d	е
1	Total loss-absorbing capacity (TLAC) available	112,534	105,140	96,889	90,353	84,036
1a	Total loss-absorbing capacity (TLAC) available with transitional arrangements for ECL provisioning not applied	112,534	105,140	96,889	90,353	84,036
2	Total RWA at the level of the resolution group	351,711	342,287	337,652	325,433	322,529
3	TLAC ratio: TLAC as a percentage of RWA (row 1 / row 2) (%)	32.0 %	30.7 %	28.7 %	27.8 %	26.1 %
3a	TLAC ratio: TLAC as a percentage of RWA (row 1a / row 2) (%) available with transitional arrangements for ECL provisioning not applied	32.0 %	30.7 %	28.7 %	27.8 %	26.1 %
4	Leverage ratio exposure measure at the level of the resolution group	1,144,101	1,111,094	1,115,676	976,690	969,824
5	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1 / row 4) (%)	9.8 %	9.5 %	8.7 %	9.3 %	8.7 %
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) (%)	9.8 %	9.5 %	8.7 %	9.3 %	8.7 %
6a	Does the subordination exemption in the antepenultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	Yes	Yes	Yes	Yes	Yes
6b 6c	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
	was applied (%) RMO Einappiel Group uses the Single Boint of Entry approach whereby the parent back is the single resolution entity on which the resolution measure	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)					
	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
(\$ millions except as noted)	а	b	с	d	е
Regulatory capital elements of TLAC and adjustments					
1 Common Equity Tier 1 capital (CET1)	55,464	54,775	47,610	44,491	43,349
2 Additional Tier 1 capital (AT1) before TLAC adjustments	5,220	5,124	4,871	5,475	5,477
3 AT1 ineligible as TLAC as issued out of subsidiaries to third parties	_	_	_	_	_
4 Other adjustments	_	_	_	_	_
5 AT1 instruments eligible under the TLAC framework	5,220	5,124	4,871	5,475	5,477
6 Tier 2 capital (T2) before TLAC adjustments	7,449	7,439	8,569	7,235	7,377
7 Amortized portion of T2 instruments where remaining maturity > 1 year	_	_	_	5	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	7,449	7,439	8,569	7,240	7,382
11 TLAC arising from regulatory capital	68,133	67,338	61,050	57,206	56,208
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	44,568	37,889	35,909	33,238	27,905
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	44,568	37,889	35,909	33,238	27,905
Non-regulatory capital elements of TLAC: adjustments					
18 TLAC before deductions	112,701	105,227	96,959	90,444	84,113
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	(167)	(87)	(70)	(91)	(77)
21 Other adjustments to TLAC	—	—	—	—	—
22 TLAC available after deductions	112,534	105,140	96,889	90,353	84,036
Risk-weighted assets and leverage exposure measure for TLAC purposes					
23 Total risk-weighted assets adjusted as permitted under the TLAC regime	351,711	342,287	337,652	325,433	322,529
24 Leverage exposure measure	1,144,101	1,111,094	1,115,676	976,690	969,824
TLAC ratios and buffers					
25 TLAC Ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime)	32.0 %	30.7 %	28.7 %	27.8 %	26.1 %
26 TLAC Leverage Ratio (as a percentage of leverage exposure)	9.8 %	9.5 %	8.7 %	9.3 %	8.7 %
27 CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements (2)	11.3 %	11.5 %	9.5 %	n.a.	n.a.
28 Institution-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.

BMO 🖄 Financial Group

ΤL	AC3 - RESOLUTION ENTITY - CREDITOR RANKING AT	Q3 2022										
LE	GAL ENTITY LEVEL (1)			Creditor	ranking							
		1	2	3	4	5	6	Sum				
(\$ 1	hillions)	(most junior)					(most senior)	1 to 6				
				Additional Tier 1								
1	Description of creditor ranking	Common shares	Preferred shares	Instruments	Subordinated debt	Bail-in debt (2)	Other liabilities (3)					
2	Total capital and liabilities net of credit risk mitigation	17,392	2,650	2,658	7,692	50,308	_	80,700				
3	Subset of row 2 that are excluded liabilities	-	9	-	150	161	-	320				
4	Total capital and liabilities less excluded liabilities (row 2 minus row 3)	17,392	2,641	2,658	7,542	50,147	_	80,380				
5	Subset of row 4 that are potentially eligible as TLAC	17,392	2,641	2,658	7,542	46,977	_	77,210				
6	Subset of row 5 with 1 year ≤ residual maturity < 2 years	-	—	-	-	17,618	-	17,618				
7	Subset of row 5 with 2 years ≤ residual maturity < 5 years	_	—	—	_	23,192	_	23,192				
8	Subset of row 5 with 5 years ≤ residual maturity < 10 years	_	—	—	4,339	994	_	5,333				
9	Subset of row 5 with residual maturity ≥ 10 years, but excluding perpetual securities	_	—	2,000	3,203	5,173	_	10,376				
10	Subset of row 5 that is perpetual securities	17,392	2,641	658	—	_	—	20,691				

(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

Q3 2022 Q2 2022 Q1 2022 Q4 2021 Q3 2021 (\$ millions) Total consolidated assets as per published financial statements 1,068,338 1.041.565 1.023.172 988,175 971.358 1 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of 2 (11, 840)(11,749)(12, 952)(13, 173)(13, 360)regulatory consolidation 3 Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference (6,974)(7,015)(6, 486)(7, 451)(5,899) Adjustment for fiduciary assets recognized on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure 4 measure 5 1,567 3,681 15,570 10,393 10,900 Adjustments for derivative financial instruments 6 9,381 10,874 8,022 7,867 Adjustment for securities financing transactions (i.e. repo assets and similar secured lending) 6,060 153,708 145,033 141,557 137.983 133,529 7 Adjustment for off-balance sheet items (i.e. credit equivalent amounts of off-balance sheet exposures) 8 Other adjustments (1) (70,079)(71, 295)(53, 207)(145, 297)(134, 571)9 Leverage Ratio Exposure Measure 1,144,101 1,111,094 1,115,676 976,690 969,824 LR2 - LEVERAGE RATIO COMMON DISCLOSURE Leverage ratio framework Q3 2022 Q2 2022 Q1 2022 Q4 2021 Q3 2021 (\$ millions except as noted) **On-balance sheet exposures** 803 792 805.333 685.770 On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral) (1) 836.519 686 364 2 Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework (4.130)3 (Deductions of receivables assets for cash variation margin provided in derivative transactions) (6.570)(5.689)(3.487)(3.800) 4 (9,310) (Asset amounts deducted in determining transitional Tier 1 capital) (5, 179)(4.907)(7,076)(8.203)5 Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 to 4) 824,770 793.196 794,127 674.674 672.660 Derivative exposures 27.565 6 Replacement cost associated with all derivative transactions (2) 28.818 35.460 29.546 25.961 23.600 25.331 26.491 25 165 26.612 7 Add-on amounts for potential future exposure associated with all derivative transactions (3) 8 (Exempted central counterparty-leg of client cleared trade exposures) (4.712)(5.712)(1.677)(2.230)(1.662)9 Adjusted effective notional amount of written credit derivatives 36.745 34.886 28.784 27.415 23,217 (36.600)(27.324) (23.099) 10 (Adjusted effective notional offsets and add-on deductions for written credit derivatives) (34.775)(28.618)11 Total derivative exposures (sum of lines 6 to 10) 47,851 55,190 54,526 50,591 51,029 Securities financing transaction exposures 108,787 12 Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions 111.014 108.757 120.697 108.800 (6,458) (7,811) (Netted amounts of cash payables and cash receivables of gross SFT assets) (5,863)(7.836)(6.753)13 14 Counterparty credit risk (CCR) exposure for SFTs 13.216 14.781 12.605 11.395 11.630 15 Agent transaction exposures 117,772 117,675 125.466 113,442 16 Total securities financing transaction exposures (sum of lines 12 to 15) 112.606 Other off-balance sheet exposures 417.296 17 Off-balance sheet exposure at gross notional amount 464.540 445.368 437.673 429.219 18 (Adjustments for conversion to credit equivalent amounts) (310, 832)(300, 335)(296, 116)(291, 236)(283, 767)19 Off-balance sheet items (sum of lines 17 and 18) 153,708 145.033 141,557 137,983 133,529 **Capital and Total Exposures** 20 Tier 1 capital 60.684 59.899 52.481 49.966 48.826 20a Tier 1 Capital with transitional arrangements for ECL provisioning not applied 60.534 59.766 52,329 49.640 48,425 21 Total Exposures (sum of lines 5, 11, 16 and 19) 1,144,101 1,111,094 1,115,676 976,690 969,824 Leverage Ratios 22 Basel III leverage ratio 5.3% 5.4% 4.7% 5.1% 5.0% 4.7% 5.3% 5.4% 5.1% 5.0%

22a Leverage ratio with transitional arrangements for ECL provisioning not applied

(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.

BMO (A) Financial Group

OV1 - OVERVIEW OF RWA (1)		Minimum capital requirements				
	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021	Q3 2022
(\$ millions)	а	b	c	d	е	f
1 Credit risk (excluding counterparty credit risk (CCR))	254,484	240,477	248,112	237,703	236,012	20,359
2 Of which standardized approach (SA)	27,285	25,820	26,561	37,388	35,554	2,183
3 Of which internal rating-based (IRB) approach	227,199	214,657	221,551	200,315	200,458	18,176
4 Counterparty credit risk	17,144	19,344	18,941	18,047	19,865	1,372
5 Of which standardized approach for counterparty credit risk (SA-CCR)	8,428	9,584	9,521	9,703	11,159	674
6 Of which internal model method (IMM)	_	_	_	-	_	—
6a Of which comprehensive approach for credit risk mitigation (for SFTs)	3,844	4,179	3,989	4,247	4,078	308
6b Of which CVA capital charge	4,077	4,804	4,378	3,317	3,795	326
6c Of which exposures to QCCP	795	777	1,053	780	833	64
7 Equity positions in banking book under market-based approach	-	—	—	—	_	—
8 Equity investments in funds – look-through approach	1,989	2,365	1,407	499	567	159
9 Equity investments in funds – mandate-based approach	2,420	2,303	2,063	1,828	1,711	194
10 Equity investments in funds – fall-back approach	—	—	—	188	151	—
11 Settlement risk	3	2	17	—	5	—
12 Securitization exposures in banking book	7,136	6,717	4,340	4,570	4,304	571
13 Of which securitization internal ratings-based approach (SEC-IRBA)	5,753	5,544	3,333	3,394	3,241	460
14 Of which securitization external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA)	144	145	136	140	135	12
15 Of which securitization standardized approach (SEC-SA)	1,239	1,028	871	1,036	928	99
16 Market risk	14,551	12,736	12,859	12,066	10,395	1,164
17 Of which standardized approach (SA) (3)	679	531	369	345	340	54
18 Of which internal model approaches (IMM)	13,872	12,205	12,490	11,721	10,055	1,110
19 Operational risk	41,827	41,221	40,157	40,509	40,036	3,346
20 Of which Basic Indicator Approach	-	-	—	—	_	—
21 Of which Standardized Approach	41,827	41,221	40,157	40,509	40,036	3,346
22 Of which Advanced Measurement Approach	_	_	_	_	—	—
23 Amounts below the thresholds for deduction (subject to 250% risk weight)	9,613	9,274	9,756	10,023	9,483	769
24 Floor adjustment (4)	2,544	7,848	—	—	—	204
25 Total	351,711	342,287	337,652	325,433	322,529	28,138

(1) RWA were \$351.7 billion as at July 31, 2022, an increase from \$342.3 billion as at April 30, 2022. RWA were higher, primarily from increased asset size driven by growth in commercial lending.

(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 a capital floor as prescribed in OSFI's CAR Guideline. In calculating regulatory capital ratios, there is a requirement to increase total RWA when a capital floor amount calculated under the Standardized Approach is higher than a similar calculation using the more risk-sensitive advanced approach rules. At July 31, 2022, a Basel Capital Floor adjustment of \$2,544 million (\$7,848 million at April 30, 2022, \$nil at January 31, 2022, \$nil at October 31, 2021, and \$nil at July 31, 2021) was applied to the Bank's RWA.

RISK-WEIGHTED ASSETS BY OPERATING GROUPS						
(\$ millions)	LINE #	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Canadian Personal and Commercial Banking	1	110,496	105,059	105,089	101,418	100,879
U.S. Personal and Commercial Banking	2	95,168	92,188	95,790	93,717	92,458
BMO Wealth Management	3	26,475	26,058	24,994	24,354	23,476
BMO Capital Markets	4	102,632	98,215	97,964	91,445	91,983
Corporate Services, including Technology and Operations	5	16,940	20,767	13,815	14,499	13,733
Total Risk-Weighted Assets	6	351,711	342,287	337,652	325,433	322,529

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

LI1 - DIFFERENCES BETWEEN ACCOUNTING AND REGULATOR STATEMENTS WITH REGULATORY RISK CATEGORIES				Q3 2022						
				Carrying values of items:						
	LINE	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation <i>(1)</i>	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)	#	a	b	С	d	е	f f	g		
Assets										
Cash and Cash Equivalents	1	69,586	69,476	69,476	—	_				
Interest Bearing Deposits with Banks	2	7,317	7,312	7,304	—	_	8			
Securities	3	265,614	256,585	146,239	_	1,180	108,938	228		
Securities Borrowed or Purchased Under Resale Agreements	4	108,391	108,391	_	108,391	_				
Loans										
Residential mortgages	5	144,076	144,076	144,076	—	_				
Consumer instalment and other personal	6	84,337	84,337	80,667	—	64		3,606		
Credit cards	7	9,132	9,132	3,963	—	1,890		3,279		
Business and government	8	287,669	287,375	264,652	2,763	19,407	3,829			
Allowance for credit losses	9	(2,412)	(2,411)	(22)	_	(1)		(2,388)		
Other Assets										
Derivative instruments	10	39,717	39,714	—	39,714	—	37,356	_		
Customers' liability under acceptances	11	12,615	12,615	12,615	—	—				
Premises and equipment	12	4,604	4,508	4,508	—	—				
Goodwill	13	4,995	4,995	—	—	—		4,995		
Intangible assets	14	2,130	2,130	—	—	—		2,130		
Current tax assets	15	1,545	1,545	1,545	—	—				
Deferred tax assets	16	794	797	792	_	_		5		
Other	17	28,228	25,871	10,820	10,406	_	3,387	1,258		
Total assets	18	1,068,338	1,056,448	746,635	161,274	22,540	153,518	13,113		
Liabilities										
Deposits	19	729,385	729,385	_	_	_	25,766	703,619		
Other Liabilities										
Derivative instruments	20	43,643	43,450	—	43,450	—	34,961	–		
Acceptances	21	12,615	12,615	—	_	_	–	12,615		
Securities sold but not yet purchased	22	41,187	41,187	—	_	_	41,187	–		
Securities lent or sold under repurchase agreements	23	100,646	100,646	—	100,646	_	–	–		
Securitization and structured entities' liabilities	24	25,020	25,020	—	_	_	–	25,020		
Current tax liabilities	25	232	218	—	_	_		218		
Deferred tax liabilities	26	81	81	—	—	—		81		
Other	27	41,092	29,409	_		_	_	29,409		
Subordinated Debt	28	7,443	7,443					7,443		
Total liabilities	29	1,001,344	989,454	_	144,096	_	101,914	778,405		

(1) Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$13,295 million assets and \$1,495 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 (\$258 million assets and \$117 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.

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LI2 - MAIN SOURCES OF DIFFERENCES BETWEEN REGULATORY EXPOSURE AMOUNTS AND CARRYING VALUES IN FINANCIAL STATEMENTS

VA	LUES IN FINANCIAL STATEMENTS	Q3 2022				
				Items si	ubject to:	
		Total	Credit risk framework	Counterparty credit risk framework	Securitization framework	Market risk framework
(\$ r	nillions)	а	b	с	d	е
1	Asset carrying value amount under scope of regulatory consolidation (as per template L11) (1)	1,043,335	746,635	161,274	22,540	153,518
2	Liabilities carrying value amount under regulatory scope of consolidation (as per template LI1) (1)	211,049	—	144,096	—	101,914
3	Total net amount under regulatory scope of consolidation	832,286	746,635	17,178	22,540	51,604
4	Off-balance sheet amounts	296,151	216,760	52,499	26,892	—
5	Differences due to different netting rules and other adjustments for derivatives, other than those already included in row 2	23,279	893	22,386	_	—
6	Differences due to consideration of provisions	450	450	—	_	_
7	Exposures related to liability repo-style transactions	201,292	_	201,292	_	_
8	Potential future exposure on derivatives	26,580	—	26,580	—	—
9	Differences due to consideration of CRM	(229,780)	—	(227,622)	(2,158)	—
10	Exposure amounts considered for regulatory purposes (2)	1,150,258	964,738	92,313	47,274	51,604

(1) Carrying value under scope of regulatory consolidation (column b from L11) less amounts not subject to capital requirements or subject to deduction from capital (column g from L11).

(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)								
		Gross carry	ing values of			ing provisions for credit A 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	c	d	е	f	g
Loans	1	1,996	503,977	2,158	22	79	2,057	503,815
Debt securities	2	-	139,329	6	_	_	6	139,323
Off-balance sheet exposures	3	400	203,723	354	6	12	336	203,769
Total	4	2,396	847,029	2,518	28	91	2,399	846,907

CR1 - CREDIT QUALITY OF ASSETS (1) (2)	Q2 2022							
	Gross carry	ing values of			ing provisions for credit A 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	c	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)		Q1 2022							
		Gross carry	ing values of			ing provisions for credit A exposures	Of which: ECL accounting provisions		
L		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	C	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	ing values of			ing provisions for credit A 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	c	d	е	f	g
Loans	1	2.204	453.167	2,332	41	106	2,185	453,039
		2,204	400,107	2,002		100	2,100	100,000
Debt securities	2		111,686	2,332	-		3	111,683
Debt securities Off-balance sheet exposures	2 3	- 682	, .	2,332 3 382			3 339	

CR1 - CREDIT QUALITY OF ASSETS (1) (2)		Q3 2021					
	Gross carry	ving values of				Of which: ECL accounting provisions	
LIN	E (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	2,475	447,468	2,563	46	157	2,360	447,380
Debt securities 2	-	112,123	3	-		3	112,120
Off-balance sheet exposures 3	792	191,081	402	9	38	355	191,471
Total 4	3,267	750,672	2,968	55	195	2,718	750,971

(1) Excludes positions subject to Counterparty Credit Risk and Securitization regulatory frameworks.

(2) The carrying value of our renegotiated loans was \$574 million as at July 31, 2022 (\$586 million as at April 30, 2022, \$618 million as at January 31, 2022, \$659 million as at October 31, 2021, and \$731 million as at July 31, 2021). Renegotiated loans of \$331 million were classified as performing as at July 31, 2022 (\$321 million as at April 30, 2022, \$293 million as at January 31, 2022, \$278 million as at October 31, 2021, and \$331 million as at July 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

		BMO 🖄 Financial Group
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

CR	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)	Q1 2022
(\$ m	illions)	а
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

CR	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)	Q3 2021		
(\$ m	illions)	а		
1	Defaulted loans and debt securities at end of the previous financial reporting period	2,989		
2	Loans and debt securities that have defaulted since the last reporting period	370		
3	Returned to non-defaulted status	(274)		
4	Amounts written off	(159)		
5	Other charges	(451)		
6	Defaulted loans and debt securities at end of the reporting period	2,475		

(1) There were no defaulted debt securities.

(2) Defaulted balances exclude off-balance sheet exposures.

					BMO 🖄 Financial Gro
			Q3 2022		
CR3 - CREDIT RISK MITIGATION ECHNIQUES - 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 b credit derivatives
\$ millions)	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		
R3 - CREDIT RISK MITIGATION ECHNIQUES - 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 l credit derivatives
\$ millions)	a	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		
R3 - CREDIT RISK MITIGATION ECHNIQUES - 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 credit derivatives
s millions)	a	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	
			04 2021		
R3 - CREDIT RISK MITIGATION ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)	Unsecured exposures: carrying amount	Exposures to be secured	Q4 2021 Exposures secured by collateral	Exposures secured by financial guarantees	
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)	Unsecured exposures: carrying amount a	Exposures to be secured b1	Exposures secured by	Exposures secured by financial guarantees d	
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) 6 millions)	carrying amount a	b1	Exposures secured by collateral	financial guarantees d	Exposures secured credit derivatives f
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) 5 millions) 1 Loans	carrying amount		Exposures secured by collateral	financial guarantees	
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) millions) Loans Debt securities Total	carrying amount a 401,066 111,683 512,749	b1 51,973 	Exposures secured by collateral	financial guarantees d 47,669 — 47,669 47,669	
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) millions) Loans Debt securities Total	carrying amount a 401,066 111,683	b1 51,973 —	Exposures secured by collateral b 	financial guarantees d 47,669 —	
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) 5 millions) 1 1 2 1 2 2 2 3 3 4	carrying amount a 401,066 111,683 512,749	b1 51,973 	Exposures secured by collateral b 	financial guarantees d 47,669 — 47,669	
2 Debt securities 3 Total 4 Of which: defaulted CR3 - CREDIT RISK MITIGATION	carrying amount a 401,066 111,683 512,749 1,538 Unsecured exposures:	b1 51,973 — 51,973 215	Exposures secured by collateral b — — — — Q3 2021 Exposures secured by	financial guarantees d 47,669 	credit derivatives f Exposures secured
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) millions) Loans Debt securities Total Of which: defaulted R3 - CREDIT RISK MITIGATION ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)	carrying amount a 401,066 111,683 512,749 1,538 Unsecured exposures: carrying amount	b1 51,973 	Exposures secured by collateral b 	financial guarantees d 47,669 	credit derivatives f Exposures secured
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) millions) 1 Loans 2 Debt securities 3 Total 4 Of which: defaulted R3 - CREDIT RISK MITIGATION ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) 5 millions)	carrying amount a 401,066 111,683 512,749 1,538 Unsecured exposures: carrying amount a	b1 51,973 	Exposures secured by collateral b — — — — Q3 2021 Exposures secured by	financial guarantees d 47,669 47,669 140 Exposures secured by financial guarantees d	credit derivatives f Exposures secured
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) s millions) 1 Loans 2 Debt securities 3 Total 4 Of which: defaulted R3 - CREDIT RISK MITIGATION ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) 5 millions) 1 Loans	carrying amount a 401,066 111,683 512,749 1,538 Unsecured exposures: carrying amount a 394,635	b1 51,973 	Exposures secured by collateral b 	financial guarantees d 47,669 	credit derivatives f Exposures secured
ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) millions) 1 Loans 2 Debt securities 3 Total 4 Of which: defaulted R3 - CREDIT RISK MITIGATION ECHNIQUES - OVERVIEW (1) (2) (3) (4) (5) 5 millions)	carrying amount a 401,066 111,683 512,749 1,538 Unsecured exposures: carrying amount a	b1 51,973 	Exposures secured by collateral b 	financial guarantees d 47,669 47,669 140 Exposures secured by financial guarantees d	

(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

ΜΙΤ	IGATION (CRM) EFFECTS (1) (2)			Q3 2	2022			
(\$ r	nillions except as noted)	Exposures befo	re 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%	

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK

MIT	FIGATION (CRM) EFFECTS (1) (2)			Q2 :	2022		
(\$ 1	nillions except as noted)	Exposures befo	re CCF and CRM	Exposures pos	t CCF and CRM	RWA and R	WA density
		On-balance sheet	Off-balance sheet	On-balance sheet	Off-balance sheet		
		amount	amount	amount	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	4	1	_		20.00%
3	Multilateral development banks		_	_			—
4	Banks	1	35	1	19	4	20.00%
5	Securities firms	16	645	16	10	5	20.00%
6	Corporates	6,804	2,800	6,804	187	6,902	98.73%
7	Regulatory retail portfolios	5,747	4,038	5,747	382	4,363	71.17%
8	Secured by residential property	508	75	507	36	224	41.25%
9	Secured by commercial real estate	5	_	6		6	100.00%
10	Equity	2,093	546	2,094	272	1,867	78.91%
11	Defaulted exposures	76	15	74		93	128.04%
12	Higher-risk categories (3)	99	106	99	51	225	150.00%
13	Other assets	9,722	_	9,722	_	12,131	124.78%
14	Total	25,072	8,264	25,071	957	25,820	99.20%

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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) 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).

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK

MIT	IGATION (CRM) EFFECTS (1) (2)			Q1 :	2022			
(\$ n	nillions except as noted)	Exposures befo	re 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	5	1	_		20.00%	
3	Multilateral development banks	_	_	_	_		_	
4	Banks	1	34	1	19	4	20.00%	
5	Securities firms	_	654	_	10	2	20.00%	
6	Corporates	7,541	3,728	7,542	504	7,928	98.55%	
7	Regulatory retail portfolios	5,382	3,753	5,383	339	4,056	70.92%	
8	Secured by residential property	553	92	552	36	244	41.42%	
9	Secured by commercial real estate	9	2	9		9	100.00%	
10		1,963	498	1,963	249	1,711	77.34%	
11	Defaulted exposures	97	16	95		123	129.01%	
12	Higher-risk categories (3)	78	115	79	54	199	150.00%	
13	Other assets	10,406		10,406		12,285	118.06%	
14	Total	26,031	8,897	26,031	1,211	26,561	97.51%	

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK

ΜΙΤΙ	GATION (CRM) EFFECTS (1) (2)			Q4 2	2021		
(\$ m	illions 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	а	b	С	d	е	f
3 4 5 6 7 8 9 10 11 12	Sovereigns and their central banks Non-central government public sector entities Multilateral development banks Banks Securities firms Corporates Regulatory retail portfolios Secured by residential property Secured by commercial real estate Equity Defaulted exposures Higher-risk categories (3) Other assets	232 8 10 13,757 5,472 574 270 1,612 255 164 10,978		232 8 10 13,757 5,472 574 270 1,612 255 164 10,978	2 200 20 4,529 327 38 20 216 5 104 		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%

MITIGATION (CRM) EFFECTS (1) (2)			Q3 2	2021		
(\$ millions except as noted)	Exposures befo	re CCF and CRM	Exposures pos	t CCF and CRM	RWA and R	VA density
	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density
Asset classes	а	b	C	d	е	f
1 Sovereigns and their central banks	11	_	11	—	_	
2 Non-central government public sector entities	241	7	241	2	71	29.36%
3 Multilateral development banks				_		
4 Banks	2	449	2	268	54	20.00%
5 Securities firms 6 Corporates	14 13,816	672 13,051	14 13,816	16 4,390	17.495	20.009 96.099
7 Regulatory retail portfolios	5,285	6,050	5,285	4,390	3,958	70.68
8 Secured by residential property	640	113	640	41	285	41.859
9 Secured by commercial real estate	302	31	302	20	322	100.009
10 Equity	1,623	446	1,623	223	1,465	79.35%
11 Defaulted exposures	283	36	283	4	391	136.649
12 Higher-risk categories (3)	108	252	108	109	325	150.009
13 Other assets	9,497	_	9,497	—	11,182	117.749
14 Total	31,822	21.107	31.822	5.387	35,554	95.55%

(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).



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

(\$ 1	millions)	Q3 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	_	_	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	

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

	CKJ * STANDAKDIZED AFFKOACH * EXFOSORES BT ASSET CLASSES AND KISK WEIGHTS (1) (2) (3)											
(\$ r	nillions)					Q	2 2022					
											Total credit	
						Risk Weight					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	_	—	1	_	_		—	_	_	1	
3	Multilateral development banks	_	_	_	_	_	-	_	_		_	
4	Banks	_	_	20	_	_	-	_	_		20	
5	Securities firms	—	—	26	_	—		—	—	_	26	
6	Corporates	4	—	36	_	112		6,839	—	_	6,991	
7	Regulatory retail portfolios	472	_	_	_	_	5,181	476	_		6,129	
8	Secured by residential property	_	_	_	458	_	85	_	_	_	543	
9	Secured by commercial real estate	—	—	—	_	—		6	—	_	6	
10	Equity	464	_	176	_	_	-	1,726	_		2,366	
11	Defaulted exposures	_	_	_	_	_		30	44	_	74	
12	Higher-risk categories (4)	—	—	_	_	—	–	_	150	_	150	
13	Other assets	1,421	—	1,129		_		6,760	—	412	9,722	
14	Total	2,361	—	1,388	458	112	5,266	15,837	194	412	26,028	

(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)

(\$ millions)		Q1 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	_	_	1	_	—	_	_	_	_	1		
3 Multilateral development banks	_	_	_	_	—	_	_	_	_			
4 Banks	_	_	20	_	—	_	_	_	_	20		
5 Securities firms	_	—	10	_	—	—	_	—	_	10		
6 Corporates	11	—	61	—	113	—	7,861	—	_	8,046		
7 Regulatory retail portfolios	462	_	-	_	—	4,808	452	_	_	5,722		
8 Secured by residential property	-	_	-	494	—	94	-	_	_	588		
9 Secured by commercial real estate		_		_	—	—	9	_	-	9		
10 Equity	459	—	174	—	—	—	1,579		_	2,212		
11 Defaulted exposures	_	—	-	—	—	—	37	58	_	95		
12 Higher-risk categories (4)		—		—	—	-		133		133		
13 Other assets	1,407	—	1,703				6,892		404	10,406		
14 Total	2,339	—	1,969	494	113	4,902	16,830	191	404	27,242		

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

(\$ millions)					Q4	1 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	_	_	159	_	75	_	_	_	_	234
3 Multilateral development banks	_	_	_	_	_	_	_	_	_	_
4 Banks	_	_	268	_	_	_	_	_	_	268
5 Securities firms	_	_	30	_	_	_	_	_	_	30
6 Corporates	201	_	246	_	145	_	17,694	_	_	18,286
7 Regulatory retail portfolios	444	_	_	_	_	4,940	415	_	_	5,799
8 Secured by residential property	_	_	_	510	_	102	_	_	_	612
9 Secured by commercial real estate 10 Equity	_	_	_	_	_	_	290	_	_	290
10 Equity	447	_	15	_	_	_	1,366	_	_	1,828
11 Defaulted exposures	_	_	_	_	_	_	44	216	_	260
12 Higher-risk categories (4)	_	_	_	_	_	_	_	268	_	268
13 Other assets	1,525	—	1,781	—	_	_	7,278	_	394	10,978
14 Total	2,617	—	2,499	510	220	5,042	27,087	484	394	38,853

CR5 - STANDARDIZED APPROACH - EXPOSURES BY ASSET CLASSES AND RISK WEIGHTS (1) (2) (3)										
(\$ millions)					Q3	3 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	11	—	—	—	-	—	_	_	_	11
2 Non-central government public sector entities	—	—	167	_	76	_	_	-	_	243
3 Multilateral development banks	-	_		-	-	-	-	-	_	
4 Banks	-	—	270	-	-	-	-	-	_	270
5 Securities firms		—	30	-		-		-	_	30
6 Corporates	406	—	271	-	178	4 707	17,351	-	_	18,206
7 Regulatory retail portfolios	460	—	—		-	4,727	412	_	_	5,599
8 Secured by residential property	—	—	—	564	_	117		_	_	681
9 Secured by commercial real estate	451	—	17	_	_	_	322	_	_	322
10 Equity 11 Defaulted exposures	451	_	17	_	-	_	1,378	226	_	1,846 287
12 Higher-risk categories (4)	0	_	_	_	_	_	53	220	_	207
13 Other assets	1.136	_	1.381				6.639	217	341	9.497
14 Total	2,472		2,136	564	254	4,844	26,155	443	341	37,209

(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).

CR6 - IRB - CREDIT RISK EXPOSURE	BY PORTFOLIO	AND PD RANGE	- RETAIL (1) (2) (3)							Q3 2022						
(\$ millions except as noted)			Maaduda			Original on-	Off-balance						A				
			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	C	d	е	f	g	h	i	j	k	
Canadian insured residential																	
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		-	-	 271		14 021	41.05.0/			25 50 %		
Low Medium		0.50 to <0.75 0.75 to <2.50			4 5	6,844 2,058	_	_	2/1	0.61 % 1.32 %	14,031 5,382	41.25 % 41.63 %		96	35.59 % 66.21 %	- ¹	
Medium to High		2.50 to <10.00			6	1,498	_	_		1.52 /6	4,510	41.05 %		_	00.21 /8	_	
High		10.00 to <100.00			7	123	_	_	_	_	547	_		_	_	-	
Default		100.00 (Default)			8	85	_	-	_	_	448	_		_	_	_	
Sub-total					9	40,947	—		40,947		153,831			443		2	5
Canadian uninsured residential		0.001 0.15			10	70.400	05.455	10.10.0/	04 470	0.00.0/	100.007	17.00.0/		0.570	0.00.0/		
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			12	9,320	1,701	20.05 %	9,023	0.22 %	50,540	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 Default		10.00 to <100.00 100.00 (Default)			16 17	289 121	20 16	21.76 % 18.94 %	293 124	41.98 % 100.00 %	1,709 931	14.35 % 12.45 %		231 168	78.66 % 135.42 %	17 7	
Sub-total		100.00 (Delault)			18	113,778	37,753	10.94 %	124	100.00 %	606,582	12.43 %		12,791	133.42 %	126	65
Non-Canadian residential				11	10	110,110	01,100		120,701		000,002		1	12,701		120	
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 23	1,164	23	100.00 %	1,187	0.72 %	5,826	30.00 %		371	31.25 %	2	
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			23 24	337 388	28 1	45.56 % 88.62 %	349 389	1.24 % 3.69 %	4,486 2,516	46.81 % 30.96 %		267 356	76.39 % 91.45 %	25	
High		10.00 to <100.00			25	122	96	62.07 %	182	23.88 %	1,565	29.05 %		303	166.19 %	13	
Default		100.00 (Default)			26	214	—	_	214	100.00 %	4,729	38.23 %		569	264.97 %	60	
Sub-total					27	10,417	6,296		14,162		79,849			2,833		86	102
Qualifying revolving retail																-	
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			28 29	1,232 563	40,714 2,438	57.57 % 71.59 %	24,670 2,309	0.04 % 0.23 %	3,240,763 312,610	77.87 % 83.23 %		613 241	2.48 % 10.45 %	8	
Low		0.15 to <0.25 0.25 to <0.50			29 30	2,419	2,430	37.15 %	2,309	0.23 %	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 Default		10.00 to <100.00 100.00 (Default)			34 35	484 56	224 25	62.83 % 40.70 %	625 66	24.22 % 100.00 %	85,466 4,448	73.61 % 58.45 %		1,180 203	188.80 % 305.50 %	114 32	
Sub-total					36	10,590	61,879	40.70 /6	44,090	100.00 %	5,320,881	30.43 /6		8,033	303.30 %	341	430
Retail small-and-medium-sized entities	s				00	10,000	01,010		1,000		0,020,001			0,000		011	
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		0.15 to <0.25			38	158	776	68.00 %	686	0.19 %	42,066	87.75 %		246	35.82 %	1	
Low		0.25 to <0.50			39	1,500	2,480	75.86 %	3,324	0.43 %	38,001	63.75 %		1,356	40.80 %	8	
Low Medium		0.50 to <0.75 0.75 to <2.50			40 41	1,918 3,063	235 743	71.02 % 53.28 %	2,016 3,366	0.68 % 1.81 %	14,364 47,080	53.94 % 58.09 %		979 2,563	48.54 % 76.15 %	7 35	
Medium to High		2.50 to <10.00			41	3,063	291	53.26 % 46.35 %	3,300	4.37 %	24.761	58.78 %		2,563	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		16,167		232,564			10,306		278	208
Other retail					10	10.170										-	
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			46 47	19,153 4.310	4,150 1,085	50.00 % 72.99 %	21,477 5,102	0.09 % 0.20 %	354,866 177.026	26.18 % 74.01 %		1,369 1,571	6.38 % 30.80 %	5	
Low		0.15 to <0.25			47	4,310	2,374	27.89 %	5,469	0.20 %	762,659	42.29 %		1,571	23.56 %	7	
Low		0.50 to <0.75			49	6,687	16	55.94 %	6,522	0.63 %	125,774	34.51 %		1,944	29.81 %	14	
Medium		0.75 to <2.50			50	7,444	704	41.34 %	7,691	1.25 %	386,713	44.68 %		4,123	53.61 %	46	
Medium to High		2.50 to <10.00			51	3,017	40	36.60 %	3,003	4.69 %	177,543	44.27 %		2,070	68.93 %	60	
High		10.00 to <100.00 100.00 (Default)			52 53	971 129	293	34.78 % 25.36 %	1,072 128	22.85 % 100.00 %	221,278 50,022	50.96 % 46.20 %		1,177 391	109.76 % 305.81 %	122 45	
Default Sub-total					53 54	46,518	8,664	20.00 %	50,464	100.00 %	2,255,881	40.20 %		13,934	303.01 %	45 306	244
Total (all retail portfolios)	-		1	+	55	233,522	121,545		295,621		8,649,588			48,340		1,139	1,054
(1) Credit Risk excludes Counterparty Cr	odit Risk Socurit	I tization Equity Invo	I stmont in Eurode S	I dttlomont Pick and a				n subject to		l iht	0,040,000	1	1	-0,0+0		1,139	1,054

(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.

July 31, 2022 Supplementary Regulatory Capital Disclosure

CR6 - IRB - CREDIT RISK EXPOSURE BY	PORTFOLIO AND PD	RANGE - WHOLE	SALE (1) (2) (3)								Q3 2022						
(\$ millions except as noted)			Moody's Investors	Standard &		Original on- balance	Off-balance sheet	Average	EAD post- CRM and	Average	Number of	Avorago	Average		RWA		
				Poor's	LINE	sheet gross exposure	exposures pre-CCF	Average CCF (4)	post-CCF	Average PD (5)	obligors (6)	Average LGD (7)	maturity (years) (8)	RWA	density	EL	Provisions
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied	#	а	b	C	d	е	f	g	h	i	j	k	
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 %		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		1			64	261,354	287,384		401,775		46,716			171,406	i	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		205,312		2,251			4,841	i	6	17
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+	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 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 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 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 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 ¹	
Default	Default	100.00 (Default)	с	C to D	81		_	_	_	_	_	_	_	_	i — I	!	
Sub-total		1			82	19,584	12,157		27,506		501			2,612	í – – – – – – – – – – – – – – – – – – –	11	4
Total (all wholesale portfolios)					83	481,613	307,333		634,593		49,468			178,859		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 EXPOSURE BY	PORTFOLIO AND PD RANGE	- RETAIL (1) (2) (3)		ſ						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	f	g	h	i	j	k	1
Canadian insured residential																
Exceptionally low to Very low	0.00 to <0.15			1	29,456	-	—	39,678	0.01 %	126,751	30.14 %		364	0.92 %	1	
Very low to Low Low	0.15 to <0.25 0.25 to <0.50			2 3	_	_	_	_	_	_	_			_	_	
Low	0.50 to <0.75			4	6,680	_	_	261	0.61 %	13,906	39.93 %		99	38.04 %	1	
Medium	0.75 to <2.50			5	2,032	—	_	2	1.32 %	5,443	39.70 %		1	63.14 %	_	
Medium to High High	2.50 to <10.00 10.00 to <100.00			6 7	1,555 116	_	-	_	-	4,745 521	_		-	-	_	
Default	100.00 (Default)			8	101	_	_	_	_	475	_			_	_	
Sub-total				9	39,940	_		39,941		151,841			464		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 Low	0.15 to <0.25 0.25 to <0.50			11 12	8,964	1,651	27.18 %	9,413	0.22 %	49,310	19.48 %		835	8.86 %	_4	
Low	0.23 to <0.30 0.50 to <0.75			13	14,581	28	76.60 %	14,603	0.61 %	39,061	17.61 %		2,460	16.84 %	16	
Medium	0.75 to <2.50			14	7,872	544	22.52 %	7,994	1.18 %	30,610	18.00 %		2,106	26.34 %	17	
Medium to High High	2.50 to <10.00 10.00 to <100.00			15 16	4,606 263	95 24	36.34 % 20.08 %	4,641 267	6.65 % 42.58 %	13,142 1.534	14.83 % 13.44 %		2,733 197	58.90 % 73.53 %	45 15	
Default	10.00 (Default)			17	126	14	20.08 % 19.55 %	128	100.00 %	976	12.08 %		163	126.84 %	7	
Sub-total				18	110,924	36,604		126,460		604,179			11,890		117	61
Non-Canadian residential																
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 Low	0.15 to <0.25 0.25 to <0.50			20 21	5,853 525	90 192	100.00 % 50.29 %	5,943 621	0.17 % 0.37 %	12,199 5.797	21.15 % 69.43 %		464 290	7.81 % 46.69 %	2 2	
Low	0.50 to <0.75			22	1,083	18	100.00 %	1,100	0.72 %	5,891	28.98 %		331	30.10 %	2	
Medium	0.75 to <2.50			23	414	30	44.53 %	427	1.24 %	4,442	70.33 %		453	105.98 %	4	
Medium to High High	2.50 to <10.00 10.00 to <100.00			24 25	381 123	2	88.70 % 62.74 %	383 178	3.70 % 23.70 %	2,573	36.70 % 33.62 %		435 342	113.64 % 192.34 %	6 14	
Default	100.00 (Default)			25	225	88	02.74 %	225	23.70 %	1,575 5,377	42.83 %		542 695	308.98 %	64	
Sub-total				27	9,936	6,152		13,592		79,872			3,424		95	
Qualifying revolving retail	· · ·	·	· ·													
Exceptionally low to Very low	0.00 to <0.15			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 <0.25 0.25 to <0.50			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	0.50 to <0.75			31	417	982	82.37 %	1,226	0.69 %	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 <10.00 10.00 to <100.00			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 (Default)			35	434 54	213	41.61 %	64	100.00 %	4,109	57.52 %		212	331.13 %	29	
Sub-total				36	9,679	60,965		42,555		5,224,305			7,613		318	402
Retail small-and-medium-sized entities	· · ·															
Exceptionally low to Very low	0.00 to <0.15			37	1,454	2,990	76.09 %	4,060	0.08 %	60,978	58.96 %		575	14.16 %	2	
Very low to Low Low	0.15 to <0.25 0.25 to <0.50			38 39	134 114	571 377	65.99 % 68.30 %	511 372	0.19 % 0.44 %	37,792 22,863	88.14 % 87.02 %		184 229	36.03 % 61.56 %	1	
Low	0.23 to <0.30 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	0.75 to <2.50			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 <10.00 10.00 to <100.00			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	10.00 to < 100.00 100.00 (Default)			43	154	3	97.66 %	152	100.00 %	4,900 4,526	54.39 % 58.09 %		627	411.57 %	56 57	
Sub-total				45	10,082	5,295		13,871	//	212,955	//		8,178		233	
Other retail																
Exceptionally low to Very low	0.00 to <0.15 0.15 to <0.25			46	17,973	4,014	49.79 %	20,218	0.09 %	355,720 179,073	25.65 % 75.35 %		1,252 1,613	6.19 %	5 7	
Very low to Low Low	0.15 to <0.25 0.25 to <0.50			47 48	4,352 4,919	1,089 2,348	73.26 % 27.87 %	5,150 5,573	0.20 % 0.30 %	758,633	75.35 % 42.36 %		1,613	31.32 % 23.57 %	7	
Low	0.50 to <0.75			49	6,248	18	56.08 %	6,089	0.63 %	125,883	33.97 %		1,788	29.36 %	13	
Medium	0.75 to <2.50			50	6,963	696	42.79 %	7,216	1.24 %	383,512	44.27 %		3,747	51.93 %	41	
Medium to High High	2.50 to <10.00 10.00 to <100.00			51 52	2,859 924	32 277	40.77 % 34.52 %	2,843 1,019	4.70 % 22.14 %	168,556 220,890	43.76 % 51.38 %		1,939 1,481	68.21 % 145.44 %	56 145	
Default	10.00 (Default)			52	128	2/7	34.52 %	126	100.00 %	51,339	46.09 %		428	339.74 %	40	
Sub-total				54	44,366	8,476	/	48,234		2,243,606			13,562		314	222
Total (all retail portfolios)				55	224,927	117,492		284,653		8,516,758			45,131		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.

CR6 - IRB - CREDIT RISK EXPOSURE BY	PORTFOLIO AND PD	RANGE - WHOLE	SALE (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	Poor's	LINE		pre-CCF	CCF (4)	post-CCF	PD (5)	obligors (6)	LGD (7)	(years) (8)	RWA	density	EL	Provisions
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied	#	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					64	253,750	274,116		388,227		49,357			161,517		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		202,910		2,303			4,726		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		28,551		497			3,283		11	9
Total (all wholesale portfolios)					83	472,506	294,154		619,688		52,157			169,526		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.

														- DR		inclui-ciroup
CR6 - IRB - CREDIT RISK EXPOSURE I	BY PORTFOLIO AND PD RANGE	- RETAIL (1) (2) (3)								Q1 2022						
(\$ millions except as noted)		Moody's Investors Service implied	Standard & Poor's implied	LINE	Original on- balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF <i>(4</i>)	EAD post- CRM and post-CCF	Average PD <i>(5)</i>	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	c	d	e	f	g	h	i	j	k	
Canadian insured residential																
Exceptionally low to Very low	0.00 to <0.15			1	30,506	_	_	40,889	0.01 %	129,635	26.20 %		451	1.08 %	_	
Very low to Low	0.15 to <0.25			2	—	—	_	—	_	_	_			_	—	
Low	0.25 to <0.50			3		—	-	—	-		-		-	-	—	
Low Medium	0.50 to <0.75 0.75 to <2.50			4 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	—	-		-	509	—		—	-	—	
Sub-total				9	40,887	-		40,889		155,406			451		_	7
Canadian uninsured residential				10	70.040	00.450	10.00.0/	00.050	0.00.0/	400.005	10 54 0/1		0.044	0 70 0/	10	
Exceptionally low to Very low Very low to Low	0.00 to <0.15 0.15 to <0.25			10 11	72,346 9,343	33,456 1,467	43.36 % 26.31 %	86,853 9,729	0.09 % 0.22 %	462,395 49,633	16.54 % 18.85 %		3,214 835	3.70 % 8.58 %	12 4	
Low	0.15 to <0.25 0.25 to <0.50			12	9,343	1,407	20.31 %	9,729	0.22 %	49,033	10.00 %		000	0.00 %	4	
Low	0.50 to <0.75			13	14,166	27	76.39 %	14,187	0.61 %	39,312	16.78 %		2,270	16.00 %	15	
Medium	0.75 to <2.50			14	7,473	553	22.70 %	7,599	1.19 %	29,589	17.25 %		1,928	25.37 %	15	
Medium to High	2.50 to <10.00			15	4,428 271	92 17	35.65 %	4,461	6.73 %	12,750	14.17 %		2,527	56.64 %	42	
High Default	10.00 to <100.00 100.00 (Default)			16 17	271	17 15	23.00 % 19.54 %	275 141	43.68 % 100.00 %	1,526 1,036	13.34 % 11.85 %		197 194	71.65 % 137.21 %	15 9	
Sub-total	100.00 (Boldary			18	108,165	35,627	10.04 /0	123,245	100.00 /0	596,241	11.00 /0		11,165	107.21 /0	112	79
Non-Canadian residential					,	,		,		,			,		=	
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 %	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	0.71 % 1.25 %	6,208 4,554	29.33 % 70.65 %		339 468	30.40 % 107.01 %	2 4	
Medium to High	2.50 to <10.00			23	423	20	98.14 %	411	3.72 %	2,704	37.08 %		400	115.12 %	4	
High	10.00 to <100.00			25	108	102	62.65 %	171	23.21 %	1,650	36.79 %		360	209.76 %	15	
Default	100.00 (Default)			26	233		64.05 %	233	100.00 %	5,383	42.61 %		709	304.15 %	67	
Sub-total				27	9,472	6,000		13,029		80,282			3,457		99	111
Qualifying revolving retail				00	4 5 4 5 1	10.054	57.40.0/	0.4.400	0.04.0/	0 10 1 500	70.00.0/		000	0.40.0/		
Exceptionally low to Very low Very low to Low	0.00 to <0.15 0.15 to <0.25			28 29	1,545 675	40,051 2.323	57.16 % 70.08 %	24,439 2,303	0.04 % 0.23 %	3,184,569 304,216	78.86 % 83.58 %		609 242	2.49 % 10.49 %	8 4	
Low	0.25 to <0.50			30	2.182	11,495	37.48 %	6,491	0.29 %	599.917	61.17 %		610	9.39 %	12	
Low	0.50 to <0.75			31	614	957	81.56 %	1,394	0.69 %	198,670	86.89 %		369	26.47 %	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 High	2.50 to <10.00 10.00 to <100.00			33 34	2,152 506	1,125 216	79.69 %	3,049 638	4.40 % 24.61 %	386,764 80,270	84.85 % 74.53 %		2,942 1,209	96.49 % 189.25 %	113 120	
Default	10.00 to <100.00 100.00 (Default)			34	506	216	61.51 % 41.66 %	62	100.00 %	4,035	74.53 % 56.79 %		1,209	314.02 %	29	
Sub-total				36	10,845	59,222		42,886		5,133,230	00.70 /0		7,814	5 0 2 /0	337	463
Retail small-and-medium-sized entities	s	1			.,,,	,		,		-,,			,			
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	0.15 to <0.25			38	127	574	66.46 %	508	0.19 %	36,833	88.99 %		185	36.38 %	1	
Low	0.25 to <0.50 0.50 to <0.75			39 40	84 2,021	306 439	70.60 % 86.49 %	300 2,306	0.44 % 0.58 %	18,846 13,808	88.20 % 56.08 %		187 1.068	62.39 % 46.32 %	1 7	
Low Medium	0.50 to <0.75 0.75 to <2.50			40 41	2,021	439 629	86.49 % 55.64 %	2,306	0.58 %	43,499	56.08 %		1,068	46.32 %	22	
Medium to High	2.50 to <10.00			42	3,466	234	47.93 %	3,336	4.10 %	25,568	58.28 %		2,975	89.19 %	83	
High	10.00 to <100.00			43	686	20	77.66 %	694	16.29 %	5,476	54.54 %		773	111.36 %	64	
Default	100.00 (Default)			44	161	3	96.51 %	161	100.00 %	4,618	59.55 %		676	419.23 %	58	
Sub-total				45	10,215	5,267		13,995		210,602			8,259		238	160
Other retail	0.00 % +0.45			40	44.500	0.701	40.05.00	40 705	0.00.0/1	474.000	01 40 0/		705	4 0 4 0/	~	
Exceptionally low to Very low Very low to Low	0.00 to <0.15 0.15 to <0.25			46 47	14,583 5,624	3,761 1,148	49.95 % 74.69 %	16,725 6,482	0.08 % 0.20 %	174,223 254,548	21.12 % 72.23 %		725 1,973	4.34 % 30.44 %	3	
Low	0.15 to <0.25 0.25 to <0.50			47	6.416	2,326	28.01 %	7,067	0.20 %	830,224	44.98 %		1,973	27.14 %	9 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	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	2.50 to <10.00			51 52	2,022	35 297	44.55 %	2,009	5.20 %	176,028	41.39 %		1,291	64.28 %	41 147	
High Default	10.00 to <100.00 100.00 (Default)			52 53	1,074 127	297	34.25 % 33.36 %	1,175 125	19.81 % 100.00 %	257,511 51,647	64.57 % 46.49 %		1,575 401	134.02 % 319.98 %	43	
Sub-total				54	42,605	8,296	00.00 /0	46,416	.00.00 /0	2,284,415	-1010 /0		13,706	0 10.00 /0	321	256
Total (all retail portfolios)	1 1	1		55	222,189	114,412		280,460		8,460,176			44,852		1,107	1,076
		1	1		,100	· 1-7,-7 (Z		200,400		5,700,170			. 1,002		1,101	1,010

(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.

July 31, 2022 Supplementary Regulatory Capital Disclosure

CR6 - IRB - CREDIT RISK EXPOSURE BY	PORTFOLIO AND PD	RANGE - WHOLE	SALE (1) (2) (3)								Q1 2022						
(\$ millions except as noted)						Original on-	Off-balance		EAD								
			Moody's Investors	Standard &		balance sheet gross	sheet exposures	Average	post-CRM and post-	Average	Number of	Average	Average maturity		RWA		
			Service implied	Poor's	LINE	exposure	pre-CCF	CCF (4)	CCF	PD (5)	obligors (6)	LGD (7)	(years) (8)	RWA	density	EL	Provisions
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied	#	а	b	с	d	е	f	g	h	i	j	k	
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	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					64	246,662	273,913		381,050		48,116			168,400		1,466	1,912
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	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					73	182,789	7,868		187,501		2,285			5,013		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					82	19,233	11,358		26,756		497			3,286		12	7
Total (all wholesale portfolios)					83	448,684	293,139		595,307		50,898			176,699		1,482	1,926

(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 EXPOSURE B	Y PORTFOLIO AND PD RANGE	- RETAIL (1) (2) (3)								Q4 2021						
(\$ millions except as noted)		Moody's Investors Service implied	Standard & Poor's implied	LINE	Original on- balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF <i>(4)</i>	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	#	а	b	С	d	е	f	g	h	i	j	k	
Canadian insured residential																
Exceptionally low to Very low	0.00 to <0.15			1	31,340	_	_	41,917	0.00 %	133,801	26.08 %		453	1.05 %	-	
Very low to Low	0.15 to <0.25			2	-	—	_	-	-	-	-		-	-	-	
Low	0.25 to <0.50 0.50 to <0.75			3 4	6.762	_	_	_	_	14.189	_		_		_	
Medium	0.75 to <2.50			5	2,068	_	_	_	_	5,389	_		-	-	_	
Medium to High	2.50 to <10.00			6	1,520	—	—	-	_	4,504	-		-	-	-	
High Default	10.00 to <100.00 100.00 (Default)			7 8	118 110	_	_	_	_	509 495	_		=		_	
Sub-total	100.00 (Boldary			9	41,918	_		41,917		158,887			453			5
Canadian uninsured residential	L L				· · ·											
Exceptionally low to Very low	0.00 to <0.15			10	69,954	32,429	43.12 %	83,937	0.09 %	454,484	16.21 %		3,048	3.63 %	12	
Very low to Low	0.15 to <0.25 0.25 to <0.50			11	8,687	1,552	26.95 %	9,105	0.22 %	48,678	18.60 %		771	8.46 %	4	
Low	0.25 to <0.50 0.50 to <0.75			12 13	14.088	23	73.93 %	14,105	0.62 %	39.247	16.52 %		2,230	15.81 %	14	
Medium	0.75 to <2.50			14	7,790	502	24.66 %	7,914	1.18 %	31,036	16.99 %		1,963	24.80 %	16	
Medium to High	2.50 to <10.00			15	4,494	91	37.02 %	4,527	6.65 %		13.91 %		2,499	55.20 %	41	
High Default	10.00 to <100.00 100.00 (Default)			16 17	288 131	18 15	24.02 % 19.06 %	293 134	43.12 % 100.00 %	1,665 1,017	13.57 % 10.99 %		213 168	72.68 %	16	
Sub-total	100.00 (Boldary			18	105,432	34,630	10.00 /0	120,015	100.00 /0	589,404	10.00 /0		10,892	124.00 /0	112	
Non-Canadian residential	I												.,	1		1
Exceptionally low to Very low	0.00 to <0.15			19	1,258	5,376	59.02 %	4,431	0.04 %		67.27 %		388	8.76 %	1	
Very low to Low	0.15 to <0.25			20	5,449 492	49 189	100.00 % 51.42 %	5,499 590	0.17 % 0.37 %	12,941 5,836	20.92 % 69.55 %		425 276	7.72 % 46.77 %	2	
Low	0.25 to <0.50 0.50 to <0.75			21 22	1,063	189	51.42 % 100.00 %	1,073	0.37 %	5,836	69.55 % 30.23 %		335	46.77 % 31.24 %	2	
Medium	0.75 to <2.50			23	409	24	46.85 %	420	1.25 %	4,583	70.18 %		447	106.32 %	4	
Medium to High	2.50 to <10.00			24	388	3	95.65 %	391	3.75 %	2,807	38.09 %		465	118.73 %	6	
High Default	10.00 to <100.00 100.00 (Default)			25 26	130 243	102	63.00 % 56.71 %	194 243	24.27 % 100.00 %	1,754 5,805	36.14 % 42.05 %		396 732	204.16 % 301.26 %	18 68	
Sub-total				27	9,432	5,753	50.71 /0	12,841	100.00 /0	82,055	42.00 /0		3,464	301.20 /0	103	
Qualifying revolving retail	I							7-						1		1
Exceptionally low to Very low	0.00 to <0.15			28	1,433	38,624	56.71 %		0.04 %		78.52 %		568	2.43 %	8	
Very low to Low	0.15 to <0.25			29 30	605	2,361 9,342	68.65 % 37.68 %	2,225 5,483	0.23 % 0.29 %	314,606 433,980	83.20 % 54.68 %		232 464	10.44 % 8.46 %	4	
Low	0.25 to <0.50 0.50 to <0.75			30	1,963 535	9,342 954	37.00 % 79.82 %	5,463	0.29 %	200,963	86.11 %		340	26.22 %	9	
Medium	0.75 to <2.50			32	2,856	2,771	45.55 %	4,118	1.24 %	332,121	74.11 %		1,454	35.32 %	38	
Medium to High	2.50 to <10.00			33	1,905	1,037	79.13 %	2,726	4.37 %	359,431	83.60 %		2,576	94.52 %	99	
High Default	10.00 to <100.00 100.00 (Default)			34 35	460 54	219 28	61.46 % 42.34 %	594 66	22.90 % 100.00 %	75,180 4.208	71.70 % 56.47 %		1,082 190	182.05 % 287.19 %	101	
Sub-total	100.00 (Doldali)			36	9,811	55,336	42.04 /0	39,847	100.00 /0	4,823,934	00.47 /0		6,906	201.10 /0	300	
Retail small-and-medium-sized entities	· · · · ·	1								, ,						
Exceptionally low to Very low	0.00 to <0.15			37	1,502	2,999	75.97 %	4,542	0.08 %	60,325	56.61 %		623	13.72 %	2	
Very low to Low	0.15 to <0.25			38 39	129 88	539	65.17 % 69.93 %	480 287	0.19 % 0.44 %	36,089	89.01 % 88.21 %		175 179	36.39 % 62.40 %	1	
Low	0.25 to <0.50 0.50 to <0.75			39 40	1.973	285 436	69.93 % 85.56 %	287 2,269	0.44 %	17,520 13.875	88.21 % 58.34 %		1,092	62.40 %	1 8	
Medium	0.75 to <2.50			41	2,110	617	56.02 %	2,362	1.54 %	43,803	60.03 %		1,771	74.96 %	21	
Medium to High	2.50 to <10.00			42	3,731	215	48.28 %	3,270	4.06 %	25,181	58.18 %		2,907	88.91 %	80	
High Default	10.00 to <100.00 100.00 (Default)			43 44	694 156	21	76.56 % 96.15 %	686 158	16.90 % 100.00 %	5,463 6,052	54.92 % 62.04 %		778	113.45 % 738.77 %	66 12	
Sub-total				44	10,383	5,115	30.13 70	14,054	100.00 %	208,308	02.04 70		8,691	130.11 70	12	
Other retail	1	1			,	2,110		,501		,000			1,201	1		
Exceptionally low to Very low	0.00 to <0.15			46	13,730	3,644	49.36 %	15,793	0.08 %	191,000	20.46 %		655	4.15 %	2	
Very low to Low	0.15 to <0.25			47	5,795	1,119	74.69 %	6,631	0.20 %	258,092	73.18 %		2,045	30.83 %	9	
Low	0.25 to <0.50 0.50 to <0.75			48 49	6,276 3,301	2,185 25	27.60 % 55.38 %	6,879 3,134	0.33 % 0.62 %		44.88 % 19.04 %		1,865 511	27.11 % 16.32 %	11	
Medium	0.50 to <0.75 0.75 to <2.50			50	8,993	686	43.19 %	9,239	1.37 %	512,974	46.70 %		5,135	55.58 %	61	
Medium to High	2.50 to <10.00			51	1,949	33	47.91 %	1,937	5.15 %	153,215	41.54 %		1,246	64.35 %	39	
High	10.00 to <100.00			52 53	1,069 122	316	32.73 % 54.61 %	1,171 121	19.28 % 100.00 %	226,904 67,748	63.98 % 45.13 %		1,556 372	132.89 % 306.84 %	142 41	
Default Sub-total	100.00 (Default)			53 54	41,235	8.011	04.01 %	44,905	100.00 %	2,258,765	45.13 %		13,385	300.84 %	41 309	
Total (all retail portfolios)		1		55	218,211	108,845		273,579		8,121,353			43,791	-	1,015	
(1) Credit Risk excludes Counterparty Cred		I	History and Disks and a						- 4	0,121,000	1	1	1,191	I	1,010	1,100

(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.

July 31, 2022 Supplementary Regulatory Capital Disclosure

CR6 - IRB - CREDIT RISK EXPOSURE BY	PORTFOLIO AND PE	RANGE - WHOLE	SALE (1) (2) (3)								Q4 2021						
(\$ 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 <i>(4)</i>	EAD post- CRM and post-CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years) <i>(8)</i>	RWA	RWA density	EL	Provisions
Risk Profile	BMO Rating	PD Scale (%)	equivalent	implied	#	а	b	с	d	е	f	g	h	i	j	k	
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					64	219,135	258,882		339,869		45,473			148,032		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 %	_	
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	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	_		_	13.95 %	4	32.84 %	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					73	197,827	7,756		202,494		2,226			5,500		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	13.46 %	1	13.46 %	1.00	7	62.61 %	_	
Default	Default	100.00 (Default)	С	C to D	81	_	_	_	_	_	_	_	_	_	_	_	
Sub-total					82	18,744	11,280		26,251		417			2,992		10	7
Total (all wholesale portfolios)					83	435,706	277,918		568,614		48,116			156,524		1,380	1,928
(1) Credit Rick excludes Counterparty Credit				D : 1 1	. In a Lawy 4	le e Aleure e le e Lel e Ce	and and the All and the second		when he are a share to be the								

(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.

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CR6 - IRB - CREDIT RISK EXPOSURE B	Y PORTFOLIO AND PD R	ANGE - RETAIL (1) (2) (3)							Q3 2021						
(\$ millions except as noted)					Original on-	Off-balance										
		Moody's	04		balance sheet	sheet		EAD post-		N		Average		-B1111		
		Investors	Standard &		gross	exposures	Average	CRM and	Average	Number of	Average	maturity	Diata	RWA		Derect
Diala Des fil		Service implied			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	f	g	h		j	k	
Canadian insured residential				_												
Exceptionally low to Very low	0.00 to <0			1	29,160	_	—	40,701	0.00 %	127,345	26.40 %		467	1.13 %	—	
Very low to Low	0.15 to <0			2	—	—	—	_	-	-	-		-	-	-	
Low	0.25 to <0			3		-	-	-	-		-		-	-		
Low Medium	0.50 to <0 0.75 to <2			4 5	7,415 2,197	_	_	_	_	14,557 5,663			-	_		
Medium Medium to High	0.75 to <2 2.50 to <1			6	2,197	_	_	_	_	5,663			_		_	
High	10.00 to <			7	104		_	_	_	467						
Default	100.00 (D			8	115	_	_	_	_	524	-		_	-	_	
Sub-total				9	40,702	_		40,701		153,635			467		_	5
Canadian uninsured residential			· · ·						•		•		•	•	•	·
Exceptionally low to Very low	0.00 to <0	.15		10	69,547	31,820	42.89 %	83,196	0.09 %	455,627	15.97 %		2,978	3.58 %	11	
Very low to Low	0.15 to <0			11	8,989	1,418	26.46 %	9,364	0.22 %	48,914	18.40 %		785	8.37 %	4	
Low	0.25 to <0			12		_									<u> </u>	
Low	0.50 to <0			13	14,044	22	74.13 %	14,060	0.62 %	40,322	16.23 %		2,184	15.53 %	14	
Medium Medium to High	0.75 to <2 2.50 to <1			14 15	7,502 4,522	508 98	23.42 % 34.98 %	7,621 4,557	1.19 % 6.71 %	30,089 13,503	16.68 % 13.48 %		1,864 2,452	24.46 % 53.81 %	15 41	
High	10.00 to <			16	4,322 280	96 17	22.60 %	4,557	42.51 %	1,632	13.48 %		2,452	74.97 %	16	
Default	100.00 (D			17	139	15	17.10 %	142	100.00 %	1,025	11.33 %		179	126.67 %	10	
Sub-total				18	105,023	33,898		119,224		591,112			10,655		111	
Non-Canadian residential																
Exceptionally low to Very low	0.00 to <0	.15		19	1,255	5,399	59.10 %	4,446	0.04 %	41,952	67.43 %		390	8.78 %	1	
Very low to Low	0.15 to <0	.25		20	5,419	46	100.00 %	5,465	0.17 %	13,076	21.44 %		433	7.92 %	2	
Low	0.25 to <0			21	486	190	50.94 %	582	0.37 %	5,816	69.37 %		272	46.65 %	2	
Low	0.50 to <0			22 23	1,072	6	100.00 %	1,079	0.71 %	6,950	31.63 %		352	32.61 %	2	
Medium Medium to High	0.75 to <2 2.50 to <1			23	419 403	24 4	47.00 % 96.51 %	430 406	1.25 % 3.81 %	4,711 2.976	70.64 % 38.13 %		461 485	107.10 % 119.24 %	4	
High	10.00 to <			24 25	403	4 93	90.51 % 62.21 %	406	22.81 %	2,976	37.22 %		361	211.90 %	15	
Default	100.00 (D			26	268		61.37 %	268	100.00 %	5,875	42.78 %		855	318.64 %	72	
Sub-total				27	9,434	5,762		12,846		83,016			3,609		104	129
Qualifying revolving retail			· · ·						•							·
Exceptionally low to Very low	0.00 to <0			28	1,630	39,707	56.96 %	24,246	0.05 %	3,072,598	74.73 %		585	2.41 %	8	
Very low to Low	0.15 to <0			29	355	2,242	68.29 %	1,885	0.23 %	306,744	92.95 %		220	11.66 %	4	
Low	0.25 to <0			30	105	399	74.45 %	402	0.37 %	67,867	93.35 %		71	17.52 %	1	
Low Medium	0.50 to <0 0.75 to <2			31 32	3,547 651	11,508 684	39.15 % 82.03 %	8,052 1,212	0.58 %	679,440 147,580	59.96 % 85.73 %		1,293 524	16.05 % 43.25 %	28 14	
Medium Medium to High	0.75 to <2 2.50 to <1			32	2,487	684 1,386	82.03 % 65.96 %	3,402	3.55 %	396,789	85.73 %		2,752	43.25 %	98	
High	10.00 to <			34	630	229	61.08 %	770	21.19 %	84,921	75.54 %		1,370	177.93 %	120	
Default	100.00 (D			35	60	23	42.65 %	70	100.00 %	4,215	57.43 %		210	298.55 %	36	
Sub-total				36	9,465	56,178		40,039		4,760,154			7,025		309	501
Retail small-and-medium-sized entities																
Exceptionally low to Very low	0.00 to <0			37	1,501	2,985	75.74 %	5,008	0.07 %	59,860	50.22 %		608	12.15 %		
Very low to Low	0.15 to <0			38	120	512	64.92 %	453	0.19 %	34,091	88.90 %		164	36.35 %	1	
Low	0.25 to <0			39	86	301	69.37 %	295	0.44 %	18,444	88.00 %		183	62.25 %	1	
Low Medium	0.50 to <0 0.75 to <2			40 41	1,904 2.074	415 602	85.96 % 56.09 %	2,199 2,340	0.58 % 1.55 %	13,708 43,432	57.16 % 59.26 %		1,037 1,733	47.18 % 74.06 %	7 21	
Medium Medium to High	2.50 to <1			41 42	2,074 4,357	602 214	56.09 % 47.68 %	2,340 3,349	4.06 %	43,432 25,531	59.26 %		2,956	88.27 %	82	
High	10.00 to <			43	4,337	20	75.33 %	770	16.80 %	5,776	54.29 %		860	111.63 %	72	
Default	100.00 (D			44	172	5	100.00 %	175	100.00 %	6,568	59.87 %		1,150	655.50 %	21	
Sub-total				45	10,971	5,054		14,589		207,410			8,691		207	182
Other retail	· ·								-		-		-	-	-	
Exceptionally low to Very low	0.00 to <0			46	13,087	3,635	49.74 %	15,157	0.08 %	193,506	19.87 %		617	4.07 %	2	
Very low to Low	0.15 to <0			47	6,007	1,068	76.74 %	6,826	0.20 %	261,197	73.97 %		2,130	31.20 %	10	
Low	0.25 to <0			48	5,788	1,140	23.72 %	6,058	0.35 %	815,330	42.86 %		1,624	26.80 %	9	
Low	0.50 to <0			49	4,211	1,122	33.69 %	4,417	0.60 %	16,871	34.27 %		1,250	28.31 %	9	
Medium Medium to High	0.75 to <2 2.50 to <1			50 51	8,703 2.051	553 52	44.44 % 37.51 %	8,898 2.037	1.38 % 4.99 %	501,995 149,563	45.38 % 42.87 %		4,809 1,342	54.05 % 65.87 %	58 40	
High	10.00 to <			52	2,051	52 305	37.51 %	2,037	4.99 %	212,276	65.39 %		1,342	136.02 %	133	
Default	100.00 (D			53	130	4	69.66 %	129	100.00 %	67,775	46.17 %		341	265.21 %	50	
Sub-total				54	40,937	7,879		44,591	1	2,218,513			13,567		311	284
Total (all retail portfolios)				55	216.532	108.771		271,990		8,013,840			44.014		1,042	1,177
(1) 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0	<u> </u>	1	1		1.0,00L			,000	1	2,510,040			,		.,	.,

(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.

July 31, 2022 Supplementary Regulatory Capital Disclosure

EL

k

30

38

69

100

204

166

148

706

1,461

4

1

1

6

2

6

1

12

1,479

Provisions

2,043

8

2,060

CR6 - IRB - CREDIT RISK EXPOSURE BY PORTFOLIO AND PD RANGE - WHOLESALE (1) (2) (3) Q3 2021 (\$ millions except as noted) Off-balance Original on-EAD post-Moody's balance sheet Average Investors Standard & sheet gross Average CRM and Number of Average maturity RWA exposures Average PD (5) LINE pre-CCF CCF (4) post-CCF obligors (6) LGD (7) RWA Service implied Poor's exposure (years) (8) density **Risk Profile BMO Rating** PD Scale (%) equivalent implied # а b С d е f h g 0.00 to <0.15 0.08 % 34.68 % 18.86 % Investment grade I-1, I-2, I-3, I-4, I-5 Aaa to Baa1 AAA to BBB+ 56 50,902 88,410 50.84 % 105,042 5,662 2.01 19,815 57 46,200 45.41 % 53,550 6,094 Investment grade I-5, I-6 0.15 to <0.25 Baa1 to Baa2 BBB+ to BBB 34,211 0.20 % 35.42 % 2.10 18,011 33.63 % 58 44.89 % Investment grade 1-6, 1-7 0.25 to <0.50 Baa2 to Baa3 BBB to BBB-41,514 45,245 59,799 0.32 % 9,668 35.85 % 2.19 25,808 43.16 % Investment grade to Non-investment grade I-7, S-1 0.50 to <0.75 Baa3 to Ba1 BBB- to BB+ 59 36,720 32,444 44.89 % 49,279 0.60 % 7,881 33.93 % 2.18 26,637 54.05 % Non-investment grade S-1, S-2, S-3 0.75 to <2.50 Ba1 to Ba3 BB+ to BB-60 36,511 29,427 45.31 % 47,449 1.25 % 10,802 34.37 % 2.32 34,577 72.87 % Non-investment grade to Watchlist S-3, S-4, P-1, P-2 2.50 to <10.00 Ba3 to Caa1 BB- to B-61 10,696 7,892 46.15 % 13,439 3.84 % 3,410 31.81 % 1.89 12,131 90.27 % P-2, P-3 10.00 to <100.00 Caa1 to Ca 62 2,223 777 41.13 % 2,450 14.70 % 952 41.39 % 1.92 4,630 188.97 % B- to CC Default 100.00 (Default) C to D 63 1,663 831 100.00 % 2,357 100.00 % 483 35.44 % 2.44 5,687 241.34 % l C 64 214,440 251,226 333,365 44,952 147,296 1-1, 1-2, 1-3, 1-4, 1-5 0.00 to <0.15 AAA to BBB+ 60.47 % 194,745 4.47 % 2.80 % Investment grade Aaa to Baa1 65 190,234 7,318 0.02 % 1,783 2.46 5,449 Investment grade BBB+ to BBB 1-5, 1-6 0.15 to <0.25 Baa1 to Baa2 66 295 145 72.69 % 378 0.20 % 107 19.48 % 1.92 65 17.32 % 1-6, 1-7 0.25 to <0.50 Baa2 to Baa3 BBB to BBB-67 189 38.51 % 134 0.27 % 77 43.87 % 0.96 62 46.45 % Investment grade 81 I-7, S-1 0.50 to <0.75 Baa3 to Ba1 BBB- to BB+ 68 74 32 30.76 % 63 0.55 % 75 30.84 % 5.00 135 214.30 % Investment grade to Non-investment grade Non-investment grade S-1, S-2, S-3 0.75 to <2.50 Ba1 to Ba3 BB+ to BB-69 154 110 42.20 % 180 1.21 % 102 43.86 % 1.43 154 85.98 % S-3, S-4, P-1, P-2 2.50 to <10.00 Ba3 to Caa1 BB- to B-70 145 27 45.36 % 155 2.89 44 28.50 % Non-investment grade to Watchlist 2.86 % 64 9.35 % P-2, P-3 10.00 to <100.00 B- to CC 71 Caa1 to Ca 5 _ 100.00 % 42.38 % 580.00 % Default 100.00 (Default) C to D 72 5 1.00 29 3 5 73 190,989 7,821 195,660 2,216 5,938 1-1, 1-2, 1-3, 1-4, 1-5 0.00 to <0.15 AAA to BBB+ 74 4,567 72.11 % 15,382 0.07 % 181 17.58 % 1.05 1,086 7.06 % Investment grade Aaa to Baa1 10,982 75 11.49 % Investment grade I-5, I-6 0.15 to <0.25 Baa1 to Baa2 BBB+ to BBB 1,961 4,357 61.83 % 4,284 0.19 % 76 15.41 % 1.30 492 Investment grade I-6, I-7 0.25 to <0.50 Baa2 to Baa3 BBB to BBB-76 1,406 1,536 61.68 % 1,977 0.32 % 74 13.18 % 0.97 274 13.85 % I-7, S-1 77 33 15.17 % Investment grade to Non-investment grade 0.50 to <0.75 Baa3 to Ba1 BBB- to BB+ 281 373 61.55 % 493 0.55 % 12.00 % 0.90 75 Non-investment grade S-1, S-2, S-3 0.75 to <2.50 Ba1 to Ba3 BB+ to BB-78 3,856 40 78.44 % 3,751 1.14 % 40 15.02 % 1.57 1,175 31.33 % Non-investment grade to Watchlist S-3, S-4, P-1, P-2 2.50 to <10.00 Ba3 to Caa1 BB- to B-79 350 96 72.57 % 214 3.55 % 20 18.60 % 1.10 108 50.71 % P-2, P-3 10.00 to <100.00 Caa1 to Ca B- to CC 80 Default 100.00 (Default) С C to D 81 82 18,836 10,969 26,101 424 3,210 83 424,265 270,016 555,126 47,592 156,444

Total (all wholesale portfolios)

Corporate

Watchlist

Sub-total Sovereign

Watchlist

Sub-total

Watchlist

Sub-total

Default

Default

Bank

Default

(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		Q3 2022			Q2 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)
(\$ n	nillions)	а	b	с	d	е	f
1	RWA as at beginning of reporting period	214,657	25,820	19,344	221,551	26,561	18,941
2	Asset size (3)	15,500	1,478	(1,808)	(1,850)	219	1,310
3	Asset quality (4)	(3,336)	3	(364)	(5,612)	(7)	(781)
4	Model updates (5)	619	_	_	(982)	_	_
5	Methodology and policy (6)	_	_	_	315	(1,060)	_
6	Acquisitions and disposals	_	_	_	_	_	_
7	Foreign exchange movements	(241)	(16)	(28)	1,235	107	(126)
8	Other	_	_	_	_	_	_
9	RWA as at end of reporting period	227,199	27,285	17,144	214,657	25,820	19,344

CR	8 - RWA FLOW STATEMENTS OF CREDIT RISK		Q1 2022			Q4 2021	
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)
(\$ n	nillions)	а	b	c	d	е	f
1	RWA as at beginning of reporting period	200,315	37,388	18,047	200,458	35,554	19,865
2	Asset size (3)	13,317	1,583	1,012	5,245	1,986	(1,190)
3	Asset quality (4)	(2,823)	2	(29)	(4,208)	21	(548)
4	Model updates (5)	_	_	_	(280)	_	_
5	Methodology and policy (6)	8,055	(12,672)	_	_	_	_
6	Acquisitions and disposals	(34)	(291)	_	_	_	_
7	Foreign exchange movements	2,721	551	(89)	(900)	(173)	(80)
8	Other	_	_	_	_	_	_
9	RWA as at end of reporting period	221,551	26,561	18,941	200,315	37,388	18,047

CR	3 - RWA FLOW STATEMENTS OF CREDIT RISK		Q3 2021	
AN	D COUNTERPARTY CREDIT RISK EXPOSURES (1)	Credit risk	, of which	Counterparty
		AIRB	Standardized	credit risk (2)
(\$ n	nillions)	а	b	C
1	RWA as at beginning of reporting period	200,165	34,637	20,748
2	Asset size (3)	4,238	597	(563)
3	Asset quality (4)	(5,642)	(11)	(233)
4	Model updates (5)	40	_	_
5	Methodology and policy (6)	_	_	_
6	Acquisitions and disposals	_	_	_
7	Foreign exchange movements	1,657	331	(87)
8	Other	_	_	_
9	RWA as at end of reporting period	200,458	35,554	19,865

(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 (4) 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) (1	2) (3)		Q3 2	2022			Q2 2	2022	
		Standa	rdized	AI	RB	Standa	ardized	AI	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	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	7,491	81	401,775	13,261	7,147	105	388,227	12,335
Sovereign	2	1	_	205,312	179	1		202,910	259
Bank	3	37	—	27,506	924	47	_	28,551	1,085
Total Wholesale	4	7,529	81	634,593	14,364	7,195	105	619,688	13,679
Residential mortgages excluding home equity line of credits (HELOCs)	5	513	—	123,507	38,769	550	_	120,382	37,878
HELOCs	6	52	—	61,393	_	60	_	59,611	_
Other retail	7	4,201	448	50,464	1,154	4,225	472	48,234	1,176
Qualifying revolving retail	8	_	—	44,090	_	_	_	42,555	_
Retail SMEs	9	1,870	—	16,167	365	1,910	_	13,871	360
Total Retail	10	6,636	448	295,621	40,288	6,745	472	284,653	39,414
Other assets	11	11,197	—	_	—	9,722	_	_	_
Equity	12	2,561	—	_	-	2,366	—	_	_
Total Bank	13	27,923	529	930,214	54,652	26,028	577	904,341	53,093

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1) (2) (3)		Q1 2	2022		Q4 2021					
		Standa	rdized	AI	RB	Standa	ardized	AIRB			
(\$ 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	8,201	171	381,050	12,272	19,009	1,002	339,869	11,322		
Sovereign	2	1	—	187,501	262	234		202,494	136		
Bank	3	31	_	26,756	1,045	297	_	26,251	1,069		
Total Wholesale	4	8,233	171	595,307	13,579	19,540	1,002	568,614	12,527		
Residential mortgages excluding home equity line of credits (HELOCs)	5	594	—	118,755	40,641	628	_	118,223	41,752		
HELOCs	6	67	—	58,408	_	73		56,550	_		
Other retail	7	3,943	462	46,416	1,234	4,101	443	44,905	1,276		
Qualifying revolving retail	8	_	_	42,886	_	_		39,847	_		
Retail SMEs	9	1,787	_	13,995	478	1,705	_	14,054	788		
Total Retail	10	6,391	462	280,460	42,353	6,507	443	273,579	43,816		
Other assets	11	10,406	—	_	_	10,978	_	_	_		
Equity	12	2,212	—	—	—	1,828	—	_	—		
Total Bank	13	27,242	633	875,767	55,932	38,853	1,445	842,193	56,343		

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1)	(2) (3)		Q3 2	2021	
		Standa	ardized	All	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	18,932	1,299	333,365	11,955
Sovereign	2	255	_	195,660	144
Bank	3	300	_	26,101	1,209
Total Wholesale	4	19,487	1,299	555,126	13,308
Residential mortgages excluding home equity line of credits (HELOCs)	5	692	_	117,269	40,544
HELOCs	6	83	_	55,502	_
Other retail	7	4,005	460	44,591	1,326
Qualifying revolving retail	8	_	_	40,039	_
Retail SMEs	9	1,599	_	14,589	1,272
Total Retail	10	6,379	460	271,990	43,142
Other assets	11	9,497	_	-	_
Equity	12	1,846	_	_	_
Total Bank	13	37,209	1,759	827,116	56,450

(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 July 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 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 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 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 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 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 the RWA impact of credit derivatives used as CRM techniques is a decrease of \$7 million (April 30, 2022 a decrease of \$7 million).

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)	LINE		Q3 2	2022			Q2 2	2022	
(\$ millions)	#	Canada	U.S.	Other	Total	Canada	U.S.	Other	Total
Corporate (incl specialized lending and SMEs treated as corporate)	1	167,645	228,084	13,537	409,266	163,135	219,213	13,026	395,374
Sovereign	2	63,796	130,216	11,301	205,313	66,649	124,866	11,396	202,911
Bank	3	5,597	7,298	14,648	27,543	5,610	7,867	15,121	28,598
Total Wholesale	4	237,038	365,598	39,486	642,122	235,394	351,946	39,543	626,883
Residential mortgages excluding home equity line of credits (HELOCs)	5	115,549	8,471	_	124,020	112,844	8,088	—	120,932
HELOCs	6	55,189	6,256	_	61,445	53,556	6,115	—	59,671
Other retail	7	41,923	12,742	_	54,665	39,974	12,485	—	52,459
Qualifying revolving retail	8	42,583	1,507	_	44,090	41,100	1,455	_	42,555
Retail SMEs	9	11,403	6,569	65	18,037	9,055	6,716	10	15,781
Total Retail	10	266,647	35,545	65	302,257	256,529	34,859	10	291,398
Other assets	11	8,002	2,944	251	11,197	6,489	2,931	302	9,722
Equity	12	210	2,110	241	2,561	223	1,842	301	2,366
Total Bank	13	511,897	406,197	40,043	958,137	498,635	391,578	40,156	930,369

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)			Q1 2	2022			Q4 2	2021	
(\$ millions)	#	Canada	U.S.	Other	Total	Canada	U.S.	Other	Total
Corporate (incl specialized lending and SMEs treated as corporate)	1	157,720	218,761	12,770	389,251	153,324	194,360	11,194	358,878
Sovereign	2	46,832	131,120	9,550	187,502	70,831	119,297	12,600	202,728
Bank	3	5,065	6,355	15,367	26,787	5,106	6,625	14,817	26,548
Total Wholesale	4	209,617	356,236	37,687	603,540	229,261	320,282	38,611	588,154
Residential mortgages excluding home equity line of credits (HELOCs)	5	111,649	7,700	_	119,349	111,127	7,724	—	118,851
HELOCs	6	52,484	5,991	_	58,475	50,805	5,818	_	56,623
Other retail	7	38,093	12,266	_	50,359	36,903	12,103	_	49,006
Qualifying revolving retail	8	41,504	1,382	_	42,886	39,847	_	_	39,847
Retail SMEs	9	8,830	6,943	9	15,782	8,619	7,132	8	15,759
Total Retail	10	252,560	34,282	9	286,851	247,301	32,777	8	280,086
Other assets	11	7,350	2,823	233	10,406	7,582	2,906	490	10,978
Equity	12	177	1,760	275	2,212	163	1,461	204	1,828
Total Bank	13	469,704	395,101	38,204	903,009	484,307	357,426	39,313	881,046

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)			Q3 :	2021	
(\$ millions)	#	Canada	U.S.	Other	Total
Corporate (incl specialized lending and SMEs treated as corporate)	1	150,218	190,947	11,132	352,297
Sovereign	2	63,606	118,095	14,214	195,915
Bank	3	3,486	6,333	16,582	26,401
Total Wholesale	4	217,310	315,375	41,928	574,613
Residential mortgages excluding home equity line of credits (HELOCs)	5	110,192	7,769	—	117,961
HELOCs	6	49,733	5,852	—	55,585
Other retail	7	36,540	12,056	—	48,596
Qualifying revolving retail	8	40,039	_	—	40,039
Retail SMEs	9	8,407	7,773	8	16,188
Total Retail	10	244,911	33,450	8	278,369
Other assets	11	6,203	2,833	461	9,497
Equity	12	146	1,444	256	1,846
Total Bank	13	468,570	353,102	42,653	864,325

(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.

CREDIT RISK EXPOSURE BY MAJOR ASSET CLASS (1)			Q3 2	.022			Q2 2	2022		Q1 2022	Q4 2021	Q3 2021
				Other off-				Other off-				
	INE		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	268,597	117,867	22,802	409,266	260,666	112,695	22,013	395,374	389,251	358,878	352,297
Sovereign	2	200,676	3,063	1,574	205,313	198,131	3,423	1,357	202,911	187,502	202,728	195,915
Bank	3	19,585	6,205	1,753	27,543	20,643	6,040	1,915	28,598	26,787	26,548	26,401
Total Wholesale	4	488,858	127,135	26,129	642,122	479,440	122,158	25,285	626,883	603,540	588,154	574,613
Residential mortgages excluding home equity line of credits (HELOCs)	5	123,851	132	37	124,020	120,783	109	40	120,932	119,349	118,851	117,961
HELOCs	6	41,820	19,625	—	61,445	40,588	19,083	—	59,671	58,475	56,623	55,585
Other retail	7	50,571	4,094	—	54,665	48,411	4,048	—	52,459	50,359	49,006	48,596
Qualifying revolving retail	8	10,591	33,499	—	44,090	9,679	32,876	—	42,555	42,886	39,847	40,039
Retail SMEs	9	12,935	5,059	43	18,037	11,789	3,953	39	15,781	15,782	15,759	16,188
Total Retail	10	239,768	62,409	80	302,257	231,250	60,069	79	291,398	286,851	280,086	278,369
Other assets	11	11,197	-	—	11,197	9,722	_	-	9,722	10,406	10,978	9,497
Equity	12	2,257	304	—	2,561	2,093	273	-	2,366	2,212	1,828	1,846
Total Bank	13	742,080	189,848	26,209	958,137	722,505	182,500	25,364	930,369	903,009	881,046	864,325

CREDIT RISK BY RESIDUAL CONTRACT MATURITY	[Q3 2	2022			Q2 2	2022		Q1 2022	Q4 2021	Q3 2021
BREAKDOWN (1)				Other off-				Other off-				
	LINE		Commitments	balance			Commitments	balance				
(\$ millions)	#	Drawn	(undrawn) <i>(2)</i>	sheet items (3)	Total	Drawn	(undrawn) <i>(2)</i>	sheet items (3)	Total	Total	Total	Total
Up to 1 year	1	262,489	105,521	20,071	388,081	257,403	101,762	19,234	378,399	351,449	380,906	370,329
1 to 5 years	2	377,809	77,492	6,063	461,364	364,410	74,174	6,045	444,629	438,112	400,351	394,245
Greater than 5 years	3	101,782	6,835	75	108,692	100,692	6,564	85	107,341	113,448	99,789	99,751
Total Bank	4	742,080	189,848	26,209	958,137	722,505	182,500	25,364	930,369	903,009	881,046	864,325

CREDIT RISK EXPOSURE BY INDUSTRY (1)	Γ		Q3 2	2022			Q2 2	.022		Q1 2022	Q4 2021	Q3 2021
				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
Agriculture	1	12,994	2,302	72	15,368	12,967	2,053	82	15,102	14,935	14,752	14,902
Communications	2	940	1,903	308	3,151	1,039	1,877	305	3,221	3,801	4,115	3,994
Construction	3	4,947	3,510	1,146	9,603	4,526	3,691	1,086	9,303	9,049	8,876	8,679
Financial	4	159,884	29,681	7,473	197,038	156,466	27,068	7,291	190,825	185,069	220,904	210,229
Forest products	5	904	840	204	1,948	848	654	201	1,703	1,598	1,487	1,739
Government	6	95,880	1,512	434	97,826	94,822	1,706	422	96,950	99,019	69,213	69,878
Individual	7	239,768	62,408	80	302,256	231,251	60,069	79	291,399	286,851	280,087	278,368
Manufacturing	8	33,987	19,533	1,900	55,420	32,375	18,005	1,790	52,170	50,498	45,348	44,441
Mining	9	3,185	4,463	1,436	9,084	3,122	4,595	1,470	9,187	8,968	7,559	8,166
Oil and Gas	10	3,836	5,129	1,262	10,227	4,905	5,307	1,324	11,536	11,957	12,922	14,184
Other	11	22,222	796	329	23,347	25,988	768	298	27,054	18,534	18,471	17,419
Real estate	12	53,347	12,010	1,310	66,667	50,297	11,726	1,240	63,263	62,319	57,019	54,666
Retail trade	13	21,142	5,197	578	26,917	20,252	5,597	559	26,408	24,192	21,515	21,654
Service industries	14	52,088	18,226	2,997	73,311	48,301	17,514	3,075	68,890	67,545	63,519	62,640
Transportation	15	9,505	3,281	1,490	14,276	9,397	2,987	1,348	13,732	12,912	13,711	11,992
Utilities	16	8,921	12,249	4,084	25,254	7,978	12,528	3,826	24,332	22,263	21,250	21,081
Wholesale trade	17	18,530	6,808	1,106	26,444	17,971	6,355	968	25,294	23,499	20,298	20,293
Total Bank	18	742,080	189,848	26,209	958,137	722,505	182,500	25,364	930,369	903,009	881,046	864,325

(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).

(3) Includes items such as standby letters of credit and documentary credits.

CCR	1 - ANALYSIS OF COUNTERPARTY CREDIT			Q3	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
(\$ mi	llions except as noted)	а	b	c	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

CCF	1 - ANALYSIS OF COUNTERPARTY CREDIT	Q2 2022									
RISI	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	c	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				

CCR	1 - ANALYSIS OF COUNTERPARTY CREDIT			Q1	2022			
RIS	((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	C	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	

CCR	1 - ANALYSIS OF COUNTERPARTY CREDIT	Q4 2021									
RISP	((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	c	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				

CCF	R1 - ANALYSIS OF COUNTERPARTY CREDIT	Q3 2021									
RISI	K (CCR) EXPOSURE BY APPROACH (1)	Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)		EAD post-CRM	RWA				
(\$ m	illions except as noted)	а	b	С	d	е	f				
1	SA-CCR (for derivatives)	10,132	18,294		1.4	39,722	11,159				
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)					31,927	4,078				
5	VaR for SFTs					—	—				
6	Total						15,237				

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

				ВМО	Financial Group
CC	R2 - CREDIT VALUATION ADJUSTMENT (CVA)	Q3 2	2022	Q2 2	2022
CA	PITAL CHARGE	EAD post-CRM	RWA	EAD post-CRM	RWA
(\$ m	llions)	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	26,913	4,077	29,979	4,804
4	Total subject to the CVA capital charge	26,913	4,077	29,979	4,804

СС	CR2 - CREDIT VALUATION ADJUSTMENT (CVA)	Q1 2	2022	Q4 2021		
CA	APITAL CHARGE	EAD post-CRM	RWA	EAD post-CRM	RWA	
(\$ n	millions)	а	b	c	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	26,501	4,378	26,668	3,317	
4	Total subject to the CVA capital charge	26,501	4,378	26,668	3,317	

	R2 - CREDIT VALUATION ADJUSTMENT (CVA)	Q3 2	
		EAD post-CRM	RWA b
(\$ m	illions)	a	U U
	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	27,857	3,795
4	Total subject to the CVA capital charge	27,857	3,795

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES BY REGULATORY

PORTFOLIO AND RISK WEIGHTS (1)		Q3 2022 Risk Weight											
(\$ 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	—	—	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			

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES BY REGULATORY

PORTFOLIO AND RISK WEIGHTS (1)	[Q2 2022						
(\$ millions)		Risk Weight										
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure		
Regulatory portfolio	#	а	b	с	d	e	f	g	h	i		
Sovereigns	1	_	_	_	_		_	_	_	_		
Non-central government public sector entities (PSEs)	2	—	_	_	_	_	—	_	—	_		
Multilateral development banks (MDBs)	3	—	—	_	_	—	—	_	—	—		
Banks	4	—	_	53	_	_	—	_	—	53		
Securities firms	5	—	—	345	_	_	—	_	—	345		
Corporates	6	—	—	_	2	—	147	—	—	149		
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	_	_	398	2	_	147	_	_	547		

(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 REGULATORY

PORTFOLIO AND RISK WEIGHTS (1)						Q1 2022				
(\$ millions)					Risk V	Veight				
										Total credit
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	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	4	-	_	57	_	_	_		-	57
Securities firms	5	_	_	308		_	125	_	_	308 126
Corporates Regulatory retail portfolios	7	_	_	_	I		125		_	120
Secured by residential property	8	_	_	_	_		_			_
Secured by commercial real estate	ğ	_	_	_	_		_			
Equity	10	_	_	_	_	_	_	_	_	_
Defaulted exposures	11	_	_	_	_	_	_	_	_	_
Higher-risk categories (2)	12	_	_	_	_	_	_	_	_	_
Other assets	13	—	—	—	_	_	_	_	_	—
Total	14	—	—	366	1	_	125	—		492

CCR3 - STANDARDIZED APPROACH - CCR EXPOSURES BY REGULATORY Q4 2021 PORTFOLIO AND RISK WEIGHTS (1) **Risk Weight** (\$ millions) Total credit LINE 75% 150% 0% 10% 20% 50% 100% Others exposure Regulatory portfolio # а b d С е g h Sovereigns Non-central government public sector entities (PSEs) Multilateral development banks (MDBs) _ _ _ _ _ _ _ 4 4 2345678910 111213 ____ ____ _ _ 559 311 327 _ _ _ Banks _ _ 559 _ _ Securities firms 311 _ _ _ _ 327 Corporates -Regulatory retail portfolios Secured by residential property Secured by commercial real estate _ _ _ _ _ _____ _____ _____3 _ _ _ _ _ _ _ Equity _ _ Defaulted exposures Higher-risk categories (2) _ _ 3 Other assets _ _ _ 1,204 _ _ 3 874 327 Total _ _ _

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES E		RY								
PORTFOLIO AND RISK WEIGHTS (1)						Q3 2021				
(\$ 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) Multilateral development banks (MDBs)	2	—	_	2	—	_	_	_	_	2
Banks	4	_	_	540	_	_	_		_	540
Securities firms	5	—	_	366	—	—		—	_	366
Corporates	6	—	-	—	—	—	420	—	-	420
Regulatory retail portfolios Secured by residential property	8	_	_	_	_	_	_		_	_
Secured by commercial real estate	9	_	_	_	_	_	_	_	_	_
Equity	10	—	_	—	—	—	—	—	_	—
Defaulted exposures	11	—	-	—	—	—	—		-	
Higher-risk categories (2) Other assets	12	_	_	_	_	_	_	8	_	8
Total	14	_	_	908	_	_	420	8	_	1,336

(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).

BMO 🖄 Financial Group

CCR4 - IRB - CCR EXPOSURES BY PORTE	CR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE							Q3 2022					
(\$ millions except as noted)			Moody's Investors Service	Standard & Poor's	LINE	EAD post- CRM	Average PD <i>(1)</i>	Number of obligors (2)	Average LGD <i>(3)</i>	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		Aaa to Baa1	AAA to BBB+	1	15,435	0.06%	.,	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		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		6,196			8,132		
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		217			434		
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	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		598			3,360		
Total (all wholesale portfolios)					28	69,103		7,011			11,926		
(1) Calculated as obliger PD weighted by EAD		-				-	-		· · · · · · · · ·				

(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.

CCR4 - IRB - CCR EXPOSURES BY PORTF	CR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE							Q2 2022					
(\$ millions except as noted)			Moody's Investors			EAD post-	Average PD		Average	Average maturity		RWA	
Risk Profile	BMO Rating	PD scale (%)	Service implied equivalent	Standard & Poor's implied equivalent	LINE #	CRM	(1) b	obligors (2) c	LGD (3) d	(years) <i>(4)</i> e	RWA	density g	
	Dimo Rating	TD Scale (70)	implied equivalent	Implied equivalent		a	6	C	u	6		9	
Corporate Investment grade	-1, -2, -3, -4, -5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	17,546	0.06%	3,701	29.72%	0.89	1.814	10.34%	
Investment grade	I-5, I-6	0.15 to <0.15	Baa1 to Baa2	BBB+ to BBB	2	2.611	0.00%	514	29.72%	1.50	826	31.61%	
Investment grade	I-6, I-7	0.15 to <0.25	Baa2 to Baa3	BBB to BBB-	3	8.135	0.19%	615	25.09%	1.13	2.082	25.60%	
e e	I-0, I-7	0.25 to <0.50	Baa3 to Baa3	BBB- to BB+	4	5.066	0.52%	604	25.09% 32.99%	1.13	2,082	25.60% 47.75%	
Investment grade to Non-investment grade	S-1. S-2. S-3	0.50 to <0.75	Ba1 to Ba3	BBB- to BB-	5	2,161	0.54%	464	32.99% 34.62%	1.03	2,419	47.75% 69.77%	
Non-investment grade			Ba3 to Caa1	BB- to B-	-	1.035	2.97%	464 271	34.62% 25.34%	1.33	724	69.77% 69.99%	
Non-investment grade to Watchlist Watchlist	S-3, S-4, P-1, P-2 P-2, P-3	10.00 to <100.00	Caa1 to Caa1	B- to CC	6	1,035	2.97%	13	25.34% 41.10%	1.54	29	201.67%	
Default	Default		Caan to Ca	C to D	8	2	15.41%	6	41.10% 36.82%	2.28	29	201.67% 487.82%	
	Delault	100.00 (Default)			-	-	100.00%	Ũ	30.02%	2.20	9	407.02%	
Sub-total					9	36,570		6,188			9,411		
Sovereign													
Investment grade	-1, -2, -3, -4, -5		Aaa to Baa1	AAA to BBB+	10	17,717	0.03%	193	10.56%	1.62	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	/ - /	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		233			611		
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		586			3,511		
Total (all wholesale portfolios)					28	75,316		7,007			13,533		
(1) Calculated as obligor PD weighted by EAD	<u>, i</u>	1	1	1	-	.,,	I	,. . .			.,		

(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.

CCR4 - IRB - CCR EXPOSURES BY PORTFO	R4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE							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 <i>(3)</i>	Average maturity (years) <i>(4)</i>	RWA	RWA density	
Risk Profile	BMO Rating	PD scale (%)	implied equivalent	implied equivalent	#	а	b	с	е	е	f	g	
Corporate													
Investment grade	-1, -2, -3, -4, -5		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		5,864			9,490		
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	17,395	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		217			468		
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	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		617			3,352		
Total (all wholesale portfolios)					28	69,757		6,698			13,310		
(1) Calculated as obligor 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.

CCR4 - IRB - CCR EXPOSURES BY PORTF	CR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE								Q4 2021			
(\$ millions except as noted)										Average		
			Moody's Investors Service	Standard & Poor's	LINE	EAD post- CRM	Average PD <i>(1)</i>	Number of obligors (2)	Average LGD <i>(3)</i>	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		Aaa to Baa1	AAA to BBB+	1	15,784	0.06%	3,471	29.59%	0.86	1,685	10.68%
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%
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%
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%
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%
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%
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%
Default	Default	100.00 (Default)	С	C to D	8	10	100.00%	8	42.07%	1.69	56	557.41%
Sub-total					9	33,883		5,866			10,375	
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	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 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%
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%
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	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	16,094		236			403	
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	16,018	0.07%	289	34.61%	1.13	1,807	11.28%
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%
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%
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%
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%
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	18,985		512			2,664	
Total (all wholesale portfolios)					28	68,962		6,614			13,442	
(1) Calculated as obliger PD weighted by EAC	、'						I					

(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.

CCR4 - IRB - CCR EXPOSURES BY PORTF	CR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE								Q3 2021			
(\$ millions except as noted)			Moody's Investors Service	Standard & Poor's	LINE	EAD post- CRM	Average PD <i>(1)</i>	Number of obligors (2)	Average LGD <i>(3)</i>	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		Aaa to Baa1	AAA to BBB+	1	14,423	0.06%	3,138	29.51%	0.96	1,608	11.15%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	2,954	0.19%	423	31.76%	1.38	782	26.48%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	3,895	0.32%	512	39.22%	1.54	1,725	44.27%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	5,204	0.57%	459	30.17%	1.27	2,421	46.52%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	5,561	1.17%	737	29.37%	1.59	3,423	61.55%
Non-investment grade to Watchlist	/ - /	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	1,202	4.57%	276	23.98%	1.45	868	72.22%
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	46	13.53%	18	29.82%	1.29	64	139.29%
Default	Default	100.00 (Default)	С	C to D	8	40	100.00%	13	37.36%	1.37	197	494.96%
Sub-total					9	33,325		5,576			11,088	
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	16,068	0.03%	214	8.68%	1.35	393	2.45%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	76	0.19%	6	43.31%	0.96	22	29.45%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	86	0.32%	10	10.78%	0.12	7	8.01%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	2	0.61%	2	18.71%	3.97	1	42.63%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	10	1.63%	4	28.38%	0.43	5	55.52%
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	2	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	16,243		237			430	
Bank		•	·							· ·		
Investment grade	I-1, I-2, I-3, I-4, I-5		Aaa to Baa1	AAA to BBB+	19	17,398	0.07%	286	34.88%	1.11	1,963	11.29%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	1,811	0.19%	97	34.98%	0.47	400	22.09%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	600	0.32%	48	34.38%	0.63	181	30.15%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	352	0.54%	13	35.40%	0.17	153	59.01%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	529	0.92%	70	34.68%	1.82	348	45.77%
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	55	2.74%	2	45.00%	1.00	62	112.94%
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	20,745		516			3,107	
Total (all wholesale portfolios)					28	70,313		6,329			14,625	
(1) Calculated as obligor PD weighted by EAD	· · · · · · · · · · · · · · · · · · ·	•		•	•	•	•					

(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.

CCR5 - COMPOSITION OF COLLATERAL	[Q3 2	2022		
FOR CCR EXPOSURE (1) (2)			Collateral used in de	rivative transactions		Collateral us	sed in SFTs
		Fair value of collateral received Fair value of posted collateral				Fair value of	Fair value of
	LINE	Segregated Unsegregated Unsegregated 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

CCR5 - COMPOSITION OF COLLATERAL	ſ			Q2 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	C	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	1400	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	ſ			Q1 2	022		
FOR CCR EXPOSURE (1) (2)			Collateral used in de		Collateral us	sed in SFTs	
		Fair value of collateral received Fair value of posted collateral				Fair value of	Fair value of
	LINE	Segregated Unsegregated Segregated Unsegregated o				collateral received	posted collateral
(\$ millions)	#	а	b	с	d	e	f
Cash – domestic currency	1	_	826	_	2,159	30,742	49,401
Cash – other currencies	2	—	3,534	_	3,402	90,136	80,867
Domestic sovereign debt	3	592	1,603	715	2,549	47,706	34,601
Other sovereign debt	4	1,887	294	884	477	52,994	50,342
Government agency debt	5	145	2,024	_	322	7,633	28,313
Corporate bonds	6	91	133	400	15	25,390	12,450
Equity securities	7	2,143	438	3,955	5,931	49,300	61,510
Other collateral	8	_	_		_	_	
Total	9	4,858	8,852	5,954	14,855	303,901	317,484

CCR5 - COMPOSITION OF COLLATERAL	[Q4 2021									
FOR CCR EXPOSURE (1) (2)			Collateral used in de	rivative transactions		Collateral us	ed in SFTs				
		Fair value of coll	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	41	3,754	505	2,503	82,529 40.846	76,825				
Domestic sovereign debt Other sovereign debt	3	1,501	3,754 903 372	595 740	2,500 398	40.846 50,833	32,663 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 Other collateral	7	1.249	400	2,711	4.997	48,931	55.294				
Total	9	3,511	10,640	4,325	12,137	284,124	299,189				

CCR5 - COMPOSITION OF COLLATERAL				Q3 2	021		
FOR CCR EXPOSURE (1) (2)			Collateral used in de	rivative transactions		Collateral us	sed in SFTs
		Fair value of coll	ateral received	Fair value of	Fair value of		
	LINE	Segregated	Unsegregated	Segregated	Unsegregated	collateral received	posted collateral
(\$ millions)	#	а	b	С	d	e	f
Cash – domestic currency	1	—	3,032	—	1,258	29,239	41,939
Cash – other currencies	2	_	4,824	_	2,840	80,145	75,398
Domestic sovereign debt	3	68	1,044	177	2,548	41,287	34,582
Other sovereign debt	4	1,737	271	879	480	47,962	45,219
Government agency debt	5	283	1,964	_	507	7,986	23,796
Corporate bonds	6	256	· _	255	10	24,831	20,929
Equity securities	7	270	337	1,795	4,308	48,925	53,942
Other collateral	8	—	—	· _		7	8
Total	9	2,614	11,472	3,106	11,951	280,382	295,813

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.
 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	ĺ	Q3 2	022	Q2 2022			
	LINE	Protection bought	Protection sold	Protection bought	Protection sold		
(\$ millions)	#	а	b	с	d		
Notionals							
Single-name credit default swaps	1	609	1,316	654	81		
Index credit default swaps	2	14,331	8,630	15,118	9,719		
Total return swaps	3	3,838	9	3,957	9		
Credit options	4	3,425	_	1,861	_		
Other credit derivatives	5	_	—	_	_		
Total notionals	6	22,203	9,955	21,590	9,809		
Fair values							
Positive fair value (asset)	7	287	1	122	6		
Negative fair value (liability)	8	13	41	21	1		

CCR6 - CREDIT DERIVATIVES EXPOSURES		Q1 2	022	Q4 2	021
	LINE	Protection bought	Protection sold	Protection bought	Protection sold
(\$ millions)	#	а	b	с	d
Notionals					
Single-name credit default swaps	1	646	93	778	179
Index credit default swaps	2	11,507	4,968	11,579	4,979
Total return swaps	3	3,079	9	4,342	3
Credit options	4	3,085	—	_	_
Other credit derivatives	5	_	—	_	_
Total notionals	6	18,317	5,070	16,699	5,161
Fair values					
Positive fair value (asset)	7	65	3	41	120
Negative fair value (liability)	8	45	5	356	4

CCR6 - CREDIT DERIVATIVES EXPOSURES		Q3 20	21
	LINE	Protection bought	Protection sold
(\$ millions)	#	а	b
Notionals			
Single-name credit default swaps	1	691	208
Index credit default swaps	2	8,534	2,496
Total return swaps	3	3,563	48
Credit options	4	1,878	225
Other credit derivatives	5	_	_
Total notionals	6	14,666	2,977
Fair values			
Positive fair value (asset)	7	57	69
Negative fair value (liability)	8	284	4

СС	R8 - EXPOSURES TO CENTRAL COUNTERPARTIES	Q3 2	022	Q2 2	022	Q1 2	2022	Q4 2	2021	Q3 2021	
		EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA
(\$ n	nillions)	а	b	с	d	e	f	g	h	i	j
1	Exposures to QCCPs (total)		795		777		1,053		780		833
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which:	14,775	308	17,803	362	23,207	474	18,440	380	16,929	348
3	(i) OTC derivatives	4,223	97	4,478	96	4,684	104	3,701	85	3,175	73
4	(ii) Exchange-traded derivatives	9,301	186	12,355	247	16,658	333	13,902	278	12,263	245
5	(iii) Securities financing transactions	1,251	25	970	19	1,865	37	837	17	1,491	30
6	(iv) Netting sets where cross-product netting has been approved	_	_	_	_	_	_	_	_		_
7	Segregated initial margin			_		_		_		-	
8	Non-segregated initial margin	6,587		7,404		6,974		5,423		5,173	
9	Pre-funded default fund contributions	1,098	487	835	415	1,105	579	894	400	1,083	485
10	Unfunded default fund contributions	_	_	_	_	_	_	_	_		_
11	Exposures to non-QCCPs (total)		_		_		_		_		_
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	_	_	_	_	_	-	_	_	_	_

			Q3 20	022			Q2 2	022	
DERIVATIVE INSTRUMENTS	LINE	Notional	Replacement	Credit Risk	Risk-weighted	Notional	Replacement	Credit Risk	Risk-weighted
(\$ millions)	#	Amount	Cost	Equivalent	Assets (1)	Amount	Cost	Equivalent	Assets (1)
Interest Rate Contracts									
Over-the-counter									
Swaps (2)	1	5,229,519	3,182	7,769	1,175	5,213,184	3,078	7,636	908
Forward rate agreements	2	22,120	641	1,644	420	12,664	973	2,046	359
Purchased options	3	87,437	56	182	52	79,337	201	368	240
Written options	4	79,247	17	156	88	71,896	7	129	74
	5	5,418,323	3,896	9,751	1,735	5,377,081	4,259	10,179	1,581
Exchange traded									
Futures	6	393,592	1,295	1,859	37	273,572	1,005	1,442	29
Purchased options	7	24,528	241	342	7	17,509	36	53	1
Written options	8	10,293	_	2	_	13,470	_	2	_
	9	428,413	1,536	2,203	44	304,551	1,041	1,497	30
Total Interest Rate Contracts	10	5,846,736	5,432	11,954	1,779	5,681,632	5,300	11,676	1,611
Foreign Exchange Contracts									
Over-the-counter									
Swaps	11	653,103	1,216	4,962	800	660,616	1,270	5,314	911
Forward foreign exchange contracts	12	467,058	915	6,491	1,058	484,045	1,684	8,038	1,267
Purchased options	13	56,156	151	385	100	55,737	705	1,117	392
Written options	14	58,768	5	100	33	56,844	4	98	31
	15	1,235,085	2,287	11,938	1,991	1,257,242	3,663	14,567	2,601
Exchange traded		, ,	,	,	,	, ,	,	,	,
Futures	16	1,189	_	_	_	1,054	_	1	_
Purchased options	17	1,582	_	_	_	1,664	_	1	_
Written options	18	5,317	_	_	_	5,144	_	_	_
	19	8,088	_	_	_	7,862	_	2	_
Total Foreign Exchange Contracts	20	1,243,173	2,287	11,938	1,991	1,265,104	3,663	14,569	2,601
Commodity Contracts									
Over-the-counter									
Swaps	21	30,611	5,221	9,235	1,838	34,351	5,627	10,064	2,177
Purchased options	22	5.553	845	1,585	326	5,187	1,113	2,054	544
Written options	23	4,880	99	350	103	4,566	111	360	136
	24	41,044	6,165	11,170	2,267	44,104	6,851	12,478	2,857
Exchange traded		,	,	,	,	,	,	,	,
Futures	25	48,800	1,292	2,374	47	47,649	1,193	2,402	48
Purchased options	26	29,251	79	157	3	19,911	196	350	7
Written options	27	29,022	38	95	2	19,068	29	116	2
	28	107,073	1,409	2,626	52	86,628	1,418	2,868	57
Total Commodity Contracts	29	148,117	7,574	13,796	2,319	130,732	8,269	15,346	2,914
Equity Contracts		*		,	,	× *	,	,	,-
Over-the-counter	30	98,752	586	8,905	2,462	104,419	904	9,556	2,591
Exchange traded	31	120,888	2,011	4,472	89	118,460	4,025	7,987	160
Total Equity Contracts	32	219,640	2,597	13,377	2,551	222,879	4,929	17,543	2,751
Credit Contracts	33	28,311	247	734	71	27,435	74	526	50
Sub-total	34	7,485,977	18,137	51,799	8,711	7,327,782	22,235	59,660	9,927
Total	35	7,485,977	18,137	51,799	8,711	7,327,782	22,235	59,660	9,927
(1) Pick weighted assets are reported after the im		, ,				1,321,102	22,235	59,000	5,927

(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.

	[Q1 2	2022			Q4 2	2021			Q3	2021	1	
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 <i>(1)</i>	Notional Amount	Replacement Cost	Credit Risk Equivalent	Risk-weighted Assets (1)	
Interest Rate Contracts											•	8		
Over-the-counter														
	1	4,671,446	2,785	7,556	1,209	4,151,291	2,636	6,936	1,422	4,183,654	3,859	8,640	2,392	
Swaps (2)	2	4,071,440	827	,	686	4,151,291	2,030	,	826	4,163,654	582	,	2,392	
Forward rate agreements	3	73,733	195	2,166 354	238	69,491	16	2,545 72		66,740	21	2,248 74	987 145	
Purchased options	4	70,984		304 132	230 80		20	105	70	,	32	135	87	
Written options		,	11			68,155				71,604			3,611	
	5	4,836,139	3,818	10,208	2,213	4,436,594	3,339	9,658	2,399	4,649,465	4,494	11,097	3,611	
Exchange traded		007 700	4.050	4 004		000 070	74			040.070	10.1	105		
Futures	6	267,790	1,250	1,801	36	232,972	71	141	3	219,076	104	195	4	
Purchased options	7	16,096	58	83	2	10,611	2	4	-	16,104	12	18	—	
Written options	8	4,494		1	_	3,621	2	4		3,769	8	12		
	9	288,380	1,308	1,885	38	247,204	75	149		238,949	124	225	4	
Total Interest Rate Contracts	10	5,124,519	5,126	12,093	2,251	4,683,798	3,414	9,807	2,402	4,888,414	4,618	11,322	3,615	
Foreign Exchange Contracts														
Over-the-counter														
Swaps	11	620,902	1,095	4,981	960	599,333	1,087	4,609	987	628,112	1,081	4,861	1,089	
Forward foreign exchange contracts	12	506,211	956	7,704	987	489,426	769	6,649	883	429,649	1,006	7,297	844	
Purchased options	13	61,011	88	269	87	54,145	93	270	104	54,514	86	250	88	
Written options	14	61,673	6	103	35	54,147	11	115	38	55,687	4	91	24	
	15	1,249,797	2,145	13,057	2,069	1,197,051	1,960	11,643	2,012	1,167,962	2,177	12,499	2,045	
Exchange traded														
Futures	16	322	_	_	_	222	1	2	_	373	1	3	_	
Purchased options	17	1,577	_	1	_	1,762	15	22	_	1,482	23	33	1	
Written options	18	4,925	_	1	_	4,735	26	37	1	3,788	43	63	1	
	19	6,824	_	2	_	6,719	42	61	1	5,643	67	99	2	
Total Foreign Exchange Contracts	20	1,256,621	2,145	13,059	2,069	1,203,770	2,002	11,704	2,013	1,173,605	2,244	12,598	2,047	
Commodity Contracts		.,,	_,	,	_,	.,,	_,	,	_,	.,,	_,	,	_,	
Over-the-counter														
Swaps	21	27,986	4,064	7,700	2,149	28,892	4,357	8,183	2,148	29,686	3,338	6,877	2,093	
Purchased options	22	4,198	654	1,352	· · · ·	4,526	1,537	2,601	457	5,090	654	1,489	441	
Written options	23	2,979	25	200	84	3,132	1,007	175	51	3,412	12	236	70	
Whiten options	24	35,163	4,743	9,252	2,688	36,550	5,900	10,959	2,656	38,188	4,004	8,602	2,604	
Exchange traded	27	55,105	т, т т З	3,232	2,000	50,550	5,500	10,309	2,000	50,100	4,004	0,002	2,004	
Futures	25	37,576	1,018	1,967	39	39.448	1,829	3,244	65	37,241	1,630	2,987	60	
Purchased options	26	11,175	620	910		10,020	474	721	14	7,359	922	1,350	27	
Written options	20	11,849	19	76		11,000	463	727	14	8,518	584	912	18	
Whiteh options	28	60,600	1,657	2,953	59	60,468	2,766	4,692	94	53,118	3,136	5,249	105	
Tatal Osmana dita Osmana da	20	95,763	6.400	12,955	2,747	,	8,666	,	2,750		7,140	,	2,709	
Total Commodity Contracts	29	95,763	6,400	12,205	2,747	97,018	8,000	15,651	2,750	91,306	7,140	13,851	2,709	
Equity Contracts			a			aa		o == :		00.000		10.000		
Over-the-counter	30	93,410	374	9,250	2,616	99,478	467	9,754	2,663	82,223	452	10,020	2,907	
Exchange traded	31	128,878	6,262	11,819	236	106,302	3,873	7,938	159	92,906	3,017	6,691	134	
Total Equity Contracts	32	222,288	6,636	21,069	2,852	205,780	4,340	17,692	2,822	175,129	3,469	16,711	3,041	
Credit Contracts	33	20,300	241	638	39	17,516	277	721	79	14,032	237	678	65	
Sub-total	34	6,719,491	20,548	59,064	9,958	6,207,882	18,699	55,575	10,066	6,342,486	17,708	55,160	11,477	
Total	35	6,719,491	20,548	59,064	9,958	6,207,882	18,699	55,575	10,066	6,342,486	17,708	55,160	11,477	

(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)

			Q3 2022										
		Ba	nk acts as originat	or	B	ank acts as sponse	or	В	ank acts as investo	r			
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total			
(\$ r	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	—	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		_	_		_	_	_	_	_			

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

						Q2 2022				
		Ba	nk acts as originate	or	Ba	ank acts as sponse	or	В	ank acts as investo	r
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Synthetic
(\$ 1	nillions)	а	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	—	—	—	—	—	—	—	—	—

(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 July 31, 2022 \$135 million (\$163 million at April 30, 2022, \$287 million at October 31, 2021, \$115 million at July 31, 2021, and \$142 million at April 30, 2021) securitizations were capitalized under the Credit Risk framework.

(2) The table excludes securitization-related assets of \$6,974 million at July 31, 2022 (\$7,015 million at April 30, 2022, \$6,486 million at October 31, 2021 and \$7,451 at July 31, 2021, and \$5,899 million at April 30, 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.



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

					Q1 2022				
	Ba	nk acts as originat	or	B	ank acts as sponse	or	В	ank 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 BOOK (1) (2) Q4 2021 Bank acts as originator Bank acts as sponsor Bank acts as investor Traditional Synthetic Synthetic Traditional Sub-total Traditional Sub-total Synthetic Sub-total b h а d е (\$ millions) С f g 1 Total retail, of which: 193 193 11,942 11,942 136 136 _ ____ 2 671 671 81 81 Residential mortgage (3) _ _ _ _ 3 Credit card ____ 939 _ 939 _ _ _ Other retail exposures 193 193 10,332 10,332 55 55 4 _ _ _ 5 Re-securitization _ _ 25 25 111 12,470 5,382 6 Total wholesale, of which: 12,359 5,382 _ 210 7 Loans to corporates 104 12,359 12,463 210 _ _ _ 8 Commercial mortgage 7 7 _ ____ _ _ 3,798 19 19 9 Lease and receivables _ _ 3,798 _ _ _ 10 Other wholesale _ ____ 1,374 _ 1,374 6 6 _ _ 11 Re-securitization

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

	Q3 2021													
	Ba	ank acts as originato	or	Ba	ank acts as sponse	or	В	ank acts as investo	icts as investor					
	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:	199	—	199	13,282	-	13,282	55	_	55					
2 Residential mortgage (3)	—	—	—	1,494	—	1,494	30	—	30					
3 Credit card	_	—	—	946	—	946	—	_	_					
4 Other retail exposures	199	—	199	10,842	—	10,842	25	_	25					
5 Re-securitization	_	—	—	_	—	_	—	_	_					
6 Total wholesale, of which:	87	12,338	12,425	4,697	—	4,697	25	_	25					
7 Loans to corporates	87	12,338	12,425	212	—	212	—	_	_					
8 Commercial mortgage	_	—	—	_	—	_	—	_	_					
9 Lease and receivables	_	—	—	3,873	—	3,873	19	_	19					
10 Other wholesale	_	—	—	612	—	612	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 July 31, 2022 \$135 million (\$163 million at April 30, 2022, \$287 million at October 31, 2021, \$115 million at July 31, 2021, and \$142 million at April 30, 2021) securitizations were capitalized under the Credit Risk framework.

(2) The table excludes securitization-related assets of \$6,974 million at July 31, 2022 (\$7,015 million at April 30, 2022, \$6,486 million at October 31, 2021 and \$7,451 at July 31, 2021, and \$5,899 million at April 30, 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)

						Q3 2022				
		Ba	ink acts as originat	or	В	ank acts as sponso	or	В	ank acts as investo	or
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$	nillions)	а	b	C	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	_	—	_	_	—		—		_

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)

						Q2 2022				
		Ba	ink acts as originat	or	В	ank acts as sponso	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:	_	_	_	_	_	_	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	—	—	—	—	—	—	—	—	—

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

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK	(1)

		Q1 2022										
		Ban	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		
(\$ r	nillions)	а	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	2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)									
						Q4 2021				
		Bank	acts as origination	ator	Bar	ik acts as spon	sor	Bar	nk acts as inves	tor
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$ m	nillions)	a	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	—	—	—	—	—	_	—	—	_

SEC	C2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)									
						Q3 2021				
		Ban	k acts as origin	ator	Bar	ik acts as spon	sor	Bar	k acts as inves	tor
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
(\$ n	nillions)	а	b	С	d	е	f	g	h	i
1	Total retail, of which:	_	_	_	—	—	_	172	_	172
2	Residential mortgage	_	_	_	—	_	_	100	_	100
3	Credit card		_	_	_	_	_	20	_	20
4	Auto loans/leases		—	_	_	—	_	48	_	48
5	Student loans		—	—	—	—	—	—	_	_
6	Other retail exposures		—	—	—	—	—	4	_	4
7	Re-securitization		—	—	—	—	—	—	—	—
8	Total wholesale, of which:				—	—		65	—	65
9	Loans to corporates				—	—		4	—	4
10	Commercial mortgage		—	—	—	—	—	60	_	60
11	Lease and receivables		—	—	—	—	—	—	_	_
12	Auto floorplan		—	—	_	—	—	—	_	—
13	Insurance premium		—	—	_	—	—	1	_	1
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)

										Q3 2022								
			Exposure v	alues by R	W bands (2)	Exposure	values by reg	ulatory app	broach (2)	RW	A by regulator	ry 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		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	—	_	_	—	_			—	—	_		_	—			—	—

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

										Q2 2022								
		:	Exposure v	alues by R	W bands (2)	Exposure	values by rec	gulatory app	proach (2)	RW	A by regulator	ry 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%
(\$	millions)	а	b	С	d	е	f	g	h	i	j	k		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	—	—	_	—	_	_	_	_	_	_	_		_	—	_	—	

(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.

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

BMO 🖄 Financial Group

										Q1 2022								
			Exposure v	values by RW	/ bands (2)		Exposu	re values by reg	ulatory appro	oach (2)	R	WA by regulator	y approach (3	3)		Capital charge	e after cap	
(\$	millions)	<u>≤</u> 20% a	>20% to 50% b	>50% to 100% c		1250% RW e	SEC-IRBA	SEC-ERBA, including IAA g	SEC-SA	1250% i	SEC-IRBA	SEC-ERBA, including IAA k	SEC-SA	1250% m	SEC-IRBA	SEC-ERBA, including IAA o	SEC-SA	1250% 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	5,378	130	22	32	-	4,894		668	_	817	-	129	_	57	_	9	-
6	Of which re-securitization	-	—	—	_	-	-		—	—	—	—	—	_	—	—		
7	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		-	—	_	-	-		—	—	-	—	-	_	-	-	-	
12	Of which wholesale	11,419	36	—	_	-	11,455		—	—	1,769	—	—	_	141	—		-
13	Of which re-securitization		—	—	—	-	-		—	—	—	—	-	_	—	—	—	
14	Of which senior	-	—	—	_	-	-	-	—	—	—	—	-	_	—	—		-
15	Of which non-senior	—	—	—	_	I —	I —		—	_	-	—	—	_	-	—	—	—

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

										Q4 2021								
			Exposure v	alues by RW	/ bands (2)		Exposu	re values by reg	ulatory appro	oach (2)	R	WA by regulator	y approach <i>(</i> 3	3)		Capital charge	e after cap	
(\$	millions)	≤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%
(Ψ	initions)	a	D	C	α	e	<u> </u>	g	n		J	K		m	l 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	476	5,683	_	1,748	130	1,149	_	135	10	83	_
4	Of which retail underlying	11,864	77	_	43	36	6,508	476	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	-	-	-	_	_	-	-	—	—	—	—		_	-	-	—	_
7	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	—	—	—	_	<u> </u>	<u> </u>	—	_	_		—	_		<u> </u>		—	

SEC	3 - SECURITIZATION EXPOSURES IN	THE BANKIN	G BOOK AND	ASSOCIATI		REQUIREM	ENTS (BANK	ACTING AS ORI	GINATOR OF	R AS SPONS	OR) (1)							
										Q3 2021								
			Exposure v	alues by RW	/ bands (2)		Exposu	re values by reg	ulatory appr	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	I	m	n	o	р	q
1	Total exposures	29,010	143	44	51	31	23,602	476	5,201	_	3,328	130	1,034	_	258	11	74	—
2	Traditional securitization	17,890	143	8	51	31	12,446	476	5,201	_	1,635	130	1,034	_	124	11	74	—
3	Of which securitization	17,890	143	8	51	31	12,446	476	5,201	—	1,635		1,034	_	124	11	74	—
4	Of which retail underlying	13,265	16	-	27	31	8,351	476	4,512	-	955	130	938	_	76	11	66	-
5	Of which wholesale	4,625	127	8	24	-	4,095	-	689	-	680	-	96	_	48	-	8	
6	Of which re-securitization	-		-	_	-	-	-	-	-		-		_	-	-		
7	Of which senior	-		-	_	-	-	-	-	-		-		_	-	-		
8	Of which non-senior	—	—	—	_			_			—	_	—	_			—	—
9	Synthetic securitization	11,120	—	36	_	_	11,156	_	—	_	1,693	—	—	_	134			
10	Of which securitization	11,120	_	36	_	_	11,156	_	_	_	1,693	_	_	_	134	_	_	_
11	Of which retail underlying		_	—	_	-	- 1	-	—	_	_	—	—	_	-	_	_	_
12	Of which wholesale	11,120	_	36	_	_	11,156	-	—	_	1,693	—	—	_	134	-	_	_
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.

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

										Q3 2022								
		l	Exposure v	alues by R	W bands (2)	Exposure	values by reg	gulatory app	broach (2)	RW	A by regulator	y approacl	1 <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	I	m	n	о	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	—	_	_	—	—	—	_	—	—	—	_	-	—	—	_	—	—
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)

										Q2 2022								
		:	xposure v	alues by R	W bands (2)		Exposure	values by reg	gulatory app	broach (2)	RW	A by regulato	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	I	m	n	о	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	—	_		—	-	—		—	—	-		—	—	-		—	—

(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.

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

										Q1 2022								
			Exposure va	lues by RW	bands (2)		Exposu	e values by reg	ulatory appro	oach (2)	R	WA by regulator	y approach (3)		Capital charge	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%
(\$ 1	nillions)	а	b	с	d	e	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	—	i — '
5	Of which wholesale	60	6	_	_	—	60	6	_	_	9	2	_	_	1	_	—	i — '
6	Of which re-securitization	_		-	_	_	_	_	-	-	_		-	_	-	-	—	I —
7	Of which senior	_		-	_	_	_	_	-	-	_		-	_	-	-	—	I —
8	Of which non-senior	—	—	—	-	—	—	_	—	—	_	_	—	_	-	—	—	— —
9	Synthetic securitization	—	—	—	_		—	_	—	—	_	_	—	_			—	<u> </u>
10	Of which securitization	—		—	—	—	—	—	_	—	_	—	—	_	-	-	—	i — I
11	Of which retail underlying	—		—	—	—	—	—	_	—	_	—	—	_	-	-	—	i — I
12	Of which wholesale	—		—	—	—	—	—	-	—	—	-	—	—	-	—	—	i —
13	Of which re-securitization	—		—	_	—	—	—	-	—	_	-	—	_	-	-	—	i —
14	Of which senior	—		—	-	—	—	—	-	—	_		—	_	-	-	—	I — I
15	Of which non-senior	—	—	—	—	—	—	—	—	—	_	—	—	_		—	—	<u> </u>

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

										Q4 2021								
			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	
(\$	millions)	≤20%	>20% to 50%		>100% to <1250%	1250% RW	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250% i	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
	,	455					7.4	5										-
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		_		—	—	—	—	—	-	-		—	—	-		-	
15	Of which non-senior		_	—	—	—	—	_	—	_		—	—	_			—	—

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

										Q3 2021								
			Exposure va	alues by RW	bands <i>(2)</i>		Exposu	re values by reg	ulatory appre	oach (2)	R	WA by regulator	ry approach (3)		Capital charge	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%
(\$	millions)	а	b	с	d	е	f	g	h	i i	j	k		m	n	0	р	q
1	Total exposures	64	16	_		_	45	35	_		8	6	—	_	1	_	_	—
2	Traditional securitization	64	16	-	_	_	45	35	-	_	8	6	_		1		_	_
3	Of which securitization	64	16	_	_	_	45	35	_	_	8	6	_	_	1	_	_	_
4	Of which retail underlying	45	10	_	_	_	26	29	_	_	5	3		_	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	_	_	_	_	I —	_		_	_	- 1	-		_	—	_		
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.

BMO E Financial Group												
(\$ millions)	LINE #	Q3 2022	Q2 2022	Q1 2022	Q4 2021	Q3 2021						
Market Risk RWA, beginning of quarter	1	12,736	12,859	12,066	10,395	8,553						
Movement in risk levels (1)	2	1,761	(261)	706	1,973	(1,503)						
Model updates (2)	3	_	_	_	_	_						
Methodology and policy (3)	4	54	138	87	(302)	3,345						
Acquisition and disposals	5	_	_	_	_	_						
Foreign exchange movement and others	6	_	_	_	_	_						
Market Risk RWA, end of quarter	7	14,551	12,736	12,859	12,066	10,395						

(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		Q3 2022					Q2 2022							
(\$ millions except as noted)		PD (1) (2) (3)		LGD (1	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	1.09%	0.27%	35.28%	19.70%	110	79	1.12%	0.27%	35.36%	16.71%	174	144	
Sovereign	2	0.17%	0.00%	18.05%	0.00%	_		0.17%	0.00%	17.61%	0.00%	_	_	
Bank	3	0.43%	0.00%	15.64%	0.00%	_		0.49%	0.00%	15.89%	0.00%	_	_	
Retail														
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9)	4	0.72%	0.34%	16.99%	3.65%	229	229	0.76%	0.36%	16.72%	3.27%	229	229	
HELOCs (9)	5	0.33%	0.15%	30.35%	9.39%	62	52	0.35%	0.16%	35.01%	7.72%	68	58	
Qualifying revolving retail (QRR)	6	0.89%	0.81%	88.00%	73.06%	385	349	0.92%	0.83%	87.99%	83.54%	395	356	
Other retail (excl. SMEs)	7	3.92%	3.52%	84.06%	77.53%	219	218	3.94%	3.50%	83.45%	77.17%	208	207	
Retail SMEs	8	1.54%	0.90%	75.72%	60.93%	69	67	1.67%	0.91%	74.93%	64.70%	98	96	

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH		Q1 2		Q4 2021									
(\$ 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	LINE #	Average estimated	Actual	Average estimated	Actual	Estimated	Actual	Average estimated	Actual	Average estimated	Actual	Estimated	Actual
Wholesale													
Corporate	1	1.16%	0.26%	35.75%	15.85%	160	135	1.16%	0.30%	35.89%	15.44%	135	96
Sovereign	2	0.18%	0.00%	17.92%	0.00%	-	_	0.18%	0.05%	17.62%	0.00%	_	_
Bank	3	0.48%	0.00%	15.02%	0.00%	-	_	0.49%	0.00%	15.07%	0.00%	_	_
Retail													
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9)	4	0.81%	0.39%	17.18%	4.28%	248	248	0.86%	0.47%	16.47%	5.25%	303	303
HELOCs (9)	5	0.40%	0.18%	33.54%	9.50%	66	57	0.41%	0.21%	30.96%	9.35%	78	66
Qualifying revolving retail (QRR)	6	0.99%	0.91%	88.26%	82.95%	431	386	0.96%	0.93%	87.69%	77.21%	434	391
Other retail (excl. SMEs)	7	4.51%	3.79%	84.75%	77.52%	223	221	4.35%	3.64%	84.20%	77.15%	251	248
Retail SMEs	8	1.83%	1.05%	71.38%	61.29%	127	124	1.87%	1.11%	70.34%	59.31%	141	138

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH	Q3 2021									
(\$ millions except as noted)		PD (1) (2) (3)		LGD (1) (4) (5)	EAD ((6) (7)			
	LINE	Average		Average						
Risk Profile	#	estimated	Actual	estimated	Actual	Estimated	Actual			
Wholesale										
Corporate	1	1.13%	0.35%	35.11%	11.46%	339	265			
Sovereign	2	0.18%	0.04%	14.53%	0.00%	-	-			
Bank	3	0.47%	0.00%	15.51%	0.00%	-	-			
Retail										
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9)	4	0.84%	0.47%	16.14%	6.03%	296	296			
HELOCs (9)	5	0.37%	0.22%	27.78%	10.11%	79	67			
Qualifying revolving retail (QRR)	6	1.03%	0.98%	87.79%	76.69%	455	412			
Other retail (excl. SMEs)	7	4.19%	3.48%	84.13%	77.46%	269	267			
Retail SMEs	8	1.95%	1.25%	69.95%	61.17%	160	157			

(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.

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.