

BMO Financial Group

Supplementary Regulatory Capital Information

For the Quarter Ended – July 31, 2021

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

Use of this Document

The supplemental information contained in this package is designed to improve the readers' understanding of the capital requirements of BMO Financial Group (the Bank). This information should be used in conjunction with the Bank's Third Quarter 2021 Report to Shareholders and the 2020 Annual Report.

Additional financial information is also available in the Q3 2021 Supplementary Financial Information, Q3 2021 Investor Presentation as well as the Conference Call Webcast 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.

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 is set at 70% in fiscal 2020, 50% in fiscal 2021 and 25% in fiscal 2022. We implemented this adjustment effective Q2 2020.

In March 2020, the Stressed Value-at-Risk (SVaR) multipliers set out in OSFI's Capital Adequacy Requirements (CAR) Guideline, under market risk, were reduced by two. This reduction was applied from Q2 2020 through Q2 2021.

In April 2020, the capital floor factor set out in OSFI's CAR Guideline, section 1.9, which applies to institutions using the Internal Ratings Based approach for credit risk, was lowered from 75% to 70%, effective Q2 2020, and it will remain in place through Q4 2022.

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 will remain in place until Q4 2021.

In March 2021, OSFI announced the unwinding of temporary regulatory adjustments to the market risk capital requirements for banks. Effective May 1, 2021, the Stressed Value-at-Risk (SVaR) multipliers set out in OSFI's Capital Adequacy Requirements (CAR) Guideline, under market risk, were set to pre-pandemic levels.

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 2021 Supplementary Financial Information | Q3 2021 Supplementary Regulatory Capital Information | 2020 Annual MD&A | 2020 Annual Financial Statements |
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| Market Risk | MRA - Qualitative disclosure requirements related to market risk | | BMO has deferred these disclosures as allowed per OSFI's Pillar 3 guidance issued April 2017 | | | |
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| Interest Rate Risk in the Banking Book | Qualitative information on IRRBB | Annual | | | 95 | |
| | Quantitative information on IRRBB | Annual | | | 96 | |

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

(2) Refer to Q4 2020 Supplementary Regulatory Capital Information for CR9 - IRB - Backtesting of probability of default (PD) per portfolio quantitative disclosure.

CC1 - COMPOSITION OF REGULATORY CAPITAL (1) (2)

| | | Cross reference (3) | | | | | |
|--|---|---------------------|---------------|---------------|---------------|---------------|---------------|
| | | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 | |
| Common Equity Tier 1 Capital: instruments and reserves | | | | | | | |
| 1 | Directly issued qualifying common share capital plus related stock surplus | a+b | 13,919 | 13,849 | 13,810 | 13,732 | 13,502 |
| 2 | Retained earnings | c | 34,089 | 32,561 | 32,012 | 30,745 | 29,902 |
| 3 | Accumulated other comprehensive income (and other reserves) | d | 3,840 | 3,256 | 4,478 | 5,518 | 5,835 |
| 4 | Directly issued capital subject to phase out from CET1 | | n.a. | n.a. | n.a. | n.a. | n.a. |
| 5 | Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1) | | - | - | - | - | - |
| Common Equity Tier 1 Capital before regulatory adjustments | | | 51,848 | 49,666 | 50,300 | 49,995 | 49,239 |
| Common Equity Tier 1 Capital: regulatory adjustments | | | | | | | |
| 7 | Prudential valuation adjustments | | 88 | 64 | 112 | 148 | 159 |
| 8 | Goodwill (net of related tax liability) | e+f-g | 5,277 | 5,206 | 6,187 | 6,352 | 6,384 |
| 9 | Other intangibles other than mortgage-servicing rights (net of related tax liability) | h-i | 1,956 | 1,988 | 1,938 | 2,050 | 2,075 |
| 10 | Deferred tax assets excluding those arising from temporary differences (net of related tax liability) | j-k | 20 | 30 | 47 | 99 | 128 |
| 11 | Cash flow hedge reserve | l | 1,308 | 1,206 | 1,771 | 1,979 | 2,195 |
| 12 | Shortfall of provisions to expected losses | m | - | - | - | - | - |
| 13 | Securitization gain on sale | | - | - | - | - | - |
| 14 | Gains or losses due to changes in own credit risk on fair valued liabilities | | (330) | (356) | (363) | (100) | (117) |
| 15 | Defined benefit pension fund net assets (net of related tax liability) | n-o | 557 | 513 | 171 | 105 | 121 |
| 16 | Investments in own shares (if not already netted off paid-in capital on reported balance sheet) | p | 24 | - | - | - | - |
| 17 | Reciprocal cross holdings in common equity | | - | - | - | - | - |
| 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 common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold) | | - | - | - | - | - |
| 20 | Mortgage servicing rights (amount above 10% threshold) | | - | - | - | - | - |
| 21 | Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability) | | - | - | - | - | - |
| 22 | Amount exceeding the 15% threshold | | - | - | - | - | - |
| 23 | of which: significant investments in the common stock financials | | - | - | - | - | - |
| 24 | of which: mortgage servicing rights | | - | - | - | - | - |
| 25 | of which: deferred tax assets arising from temporary differences | | - | - | - | - | - |
| 26 | Other deductions or regulatory adjustments to CET1 as determined by OSFI (4) | q | (401) | (400) | (498) | (715) | (690) |
| 27 | Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions | | - | - | - | - | - |
| 28 Total regulatory adjustments to Common Equity Tier 1 Capital | | | 8,499 | 8,251 | 9,365 | 9,918 | 10,255 |
| 29 Common Equity Tier 1 Capital (CET1) | | | 43,349 | 41,415 | 40,935 | 40,077 | 38,984 |
| 29a Common Equity Tier 1 Capital (CET1) with transitional arrangements for ECL provisioning not applied | | | 42,948 | 41,015 | 40,437 | 39,362 | 38,294 |
| Additional Tier 1 Capital: instruments | | | | | | | |
| 30 | Directly issued qualifying Additional Tier 1 instruments plus related stock surplus | r | 5,558 | 5,558 | 5,558 | 5,558 | 5,058 |
| 31 | of which: classified as equity under applicable accounting standards | | 5,558 | 5,558 | 5,558 | 5,558 | 5,058 |
| 32 | of which: classified as liabilities under applicable accounting standards | | - | - | - | - | - |
| 33 | Directly issued capital instruments subject to phase out from Additional Tier 1 | s | - | 290 | 290 | 290 | 290 |
| 34 | Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1) | | - | - | - | - | - |
| 35 | of which: instruments issued by subsidiaries subject to phase out | | - | - | - | - | - |
| 36 Additional Tier 1 Capital before regulatory adjustments | | | 5,558 | 5,848 | 5,848 | 5,848 | 5,348 |
| Additional Tier 1 Capital: regulatory adjustments | | | | | | | |
| 37 | Investments in own Additional Tier 1 instruments | t | 3 | 5 | 5 | 7 | 8 |
| 38 | Reciprocal cross holdings in Additional Tier 1 instruments | | - | - | - | - | - |
| 39 | Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) | | - | - | - | - | - |
| 40 | Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions | u | 78 | 78 | 78 | 78 | 78 |
| 41 | Other deductions from Tier 1 Capital as determined by OSFI | | - | - | - | - | - |
| 41a | of which: Reverse mortgages | | - | - | - | - | - |
| 42 | Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions | | - | - | - | - | - |
| 43 Total regulatory adjustments applied to Additional Tier 1 Capital | | | 81 | 83 | 83 | 85 | 86 |
| 44 Additional Tier 1 Capital (AT1) | | | 5,477 | 5,765 | 5,765 | 5,763 | 5,262 |
| 45 Tier 1 Capital (T1 = CET1 + AT1) | | | 48,826 | 47,180 | 46,700 | 45,840 | 44,246 |
| 45a Tier 1 Capital with transitional arrangements for ECL provisioning not applied | | | 48,425 | 46,780 | 46,202 | 45,125 | 43,556 |
| Tier 2 Capital: instruments and provisions | | | | | | | |
| 46 | Directly issued qualifying Tier 2 instruments plus related stock surplus | v | 6,827 | 5,758 | 7,130 | 8,270 | 8,355 |
| 47 | Directly issued capital instruments subject to phase out from Tier 2 Capital | w | 141 | 141 | 141 | 146 | 146 |
| 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 | | - | - | - | - | - |
| 50 | General allowances | x | 460 | 473 | 692 | 458 | 452 |
| 51 Tier 2 Capital before regulatory adjustments | | | 7,428 | 6,372 | 7,963 | 8,874 | 8,953 |

(1) Regulatory capital assumes that all Basel III regulatory adjustments are applied effective January 1, 2013 and that the capital value of instruments which no longer qualify as regulatory capital under Basel III rules will be phased out at a rate of 10% per year from January 1, 2013 and continuing to January 1, 2022.

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

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

(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 70% in fiscal 2020, 50% in fiscal 2021 and 25% in fiscal 2022.

CC1 - COMPOSITION OF REGULATORY CAPITAL (CONTINUED)

| (\$ millions except as noted) | | Cross reference | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
|-------------------------------|---|-----------------|---------|---------|---------|---------|---------|
| | | | | | | | |
| 52 | Tier 2 Capital: regulatory adjustments | | | | | | |
| | Investments in own Tier 2 instruments | y | 1 | 19 | 29 | 3 | - |
| 53 | Reciprocal cross holdings in Tier 2 instruments and Other TLAC-eligible instruments | | - | - | - | - | - |
| 54 | Non-significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, where the 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 | | - | - | - | - | - |
| 55 | Significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, 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 | | 51 | 69 | 79 | 53 | 50 |
| 58 | Tier 2 Capital (T2) | | 7,377 | 6,303 | 7,884 | 8,821 | 8,903 |
| 59 | Total Capital (TC = T1 + T2) | | 56,203 | 53,483 | 54,584 | 54,661 | 53,149 |
| 59a | Total Capital with transitional arrangements for ECL provisioning not applied | | 56,203 | 53,483 | 54,584 | 54,661 | 53,149 |
| 60 | Total Risk-Weighted Assets | | | | | | |
| 60a | Common Equity Tier 1 (CET 1) Capital RWA (1) | | 322,529 | 319,802 | 328,822 | 336,607 | 337,377 |
| 60b | Tier 1 Capital RWA (1) | | 322,529 | 319,802 | 328,822 | 336,607 | 337,377 |
| 60c | Total Capital RWA (1) | | 322,529 | 319,802 | 328,822 | 336,607 | 337,377 |
| | Capital Ratios | | | | | | |
| 61 | Common Equity Tier 1 (as percentage of risk-weighted assets) | | 13.4% | 13.0% | 12.4% | 11.9% | 11.6% |
| 61a | CET1 Ratio with transitional arrangements for ECL provisioning not applied | | 13.3% | 12.8% | 12.3% | 11.7% | 11.4% |
| 62 | Tier 1 (as percentage of risk-weighted assets) | | 15.1% | 14.8% | 14.2% | 13.6% | 13.1% |
| 62a | Tier 1 Capital Ratio with transitional arrangements for ECL provisioning not applied | | 15.0% | 14.6% | 14.1% | 13.4% | 12.9% |
| 63 | Total Capital (as percentage of risk-weighted assets) | | 17.4% | 16.7% | 16.6% | 16.2% | 15.8% |
| 63a | Total Capital Ratio with transitional arrangements for ECL provisioning not applied | | 17.4% | 16.7% | 16.6% | 16.2% | 15.8% |
| 64 | Buffer (minimum CET1 plus capital conservation buffer plus G-SIB buffer plus D-SIB buffer requirement, expressed as a percentage of risk-weighted assets) | | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% |
| 65 | of which: capital conservation buffer | | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% |
| 66 | of which: bank specific countercyclical buffer | | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 67 | of which: G-SIB buffer | | n.a. | n.a. | n.a. | n.a. | n.a. |
| 67a | of which: D-SIB buffer | | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| 68 | Common Equity Tier 1 available to meet buffers (as a percentage of risk weighted assets) | | 13.4% | 13.0% | 12.4% | 11.9% | 11.6% |
| | OSFI target (minimum + capital conservation buffer + D-SIB buffer (if applicable)) | | | | | | |
| 69 | Common Equity Tier 1 target ratio | | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% |
| 70 | Tier 1 capital target ratio | | 9.5% | 9.5% | 9.5% | 9.5% | 9.5% |
| 71 | Total capital target ratio | | 11.5% | 11.5% | 11.5% | 11.5% | 11.5% |
| | Amounts below the thresholds for deduction (before risk weighting) | | | | | | |
| 72 | Non-significant investments in the capital and Other TLAC-eligible instruments of other financial entities | a1 - b1 | 911 | 809 | 850 | 581 | 650 |
| 73 | Significant investments in the common stock of financials | c1 | 2,003 | 1,912 | 1,877 | 1,814 | 1,761 |
| 74 | Mortgage servicing rights (net of related tax liability) | d1 | 27 | 29 | 29 | 31 | 30 |
| 75 | Deferred tax assets arising from temporary differences (net of related tax liability) | e1 - f1 | 1,763 | 1,825 | 1,843 | 1,904 | 1,886 |
| | Applicable caps on the inclusion of provisions in Tier 2 | | | | | | |
| 76 | Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardized approach (prior to application of cap) | | 246 | 250 | 323 | 326 | 324 |
| 77 | Cap on inclusion of provisions in Tier 2 under standardized approach | | 246 | 250 | 323 | 326 | 324 |
| 78 | Provisions eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings based approach (prior to application of cap) | | 2,225 | 2,337 | 2,389 | 2,395 | 2,304 |
| 79 | Cap on inclusion of provisions in Tier 2 under internal ratings-based approach | | 614 | 624 | 866 | 847 | 817 |
| | 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 | | - | - | - | - | - |
| 81 | Amounts excluded from CET1 due to cap (excess over cap after redemptions and maturities) | | - | - | - | - | - |
| 82 | Current cap on AT1 instruments subject to phase out arrangements | | 432 | 432 | 432 | 864 | 864 |
| 83 | Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities) | | - | - | - | - | - |
| 84 | Current cap on T2 instruments subject to phase out arrangements | | 513 | 513 | 513 | 1,027 | 1,027 |
| 85 | Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities) | | - | - | - | - | - |

(1) Under OSFI's CAR Guideline, which governs advanced approaches, the Bank calculates a Basel Capital Floor and increases its risk-weighted assets to the extent such floor applies. Based on these requirements, there was no capital floor applicable for Q3 2020 through Q3 2021.

CC2 - RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET

| (\$ millions) | LINE # | Balance sheet as in Report to Shareholders | | Under regulatory scope of consolidation (1) | Cross Reference (2) | LINE # | Balance sheet as in Report to Shareholders | | Under regulatory scope of consolidation (1) | Cross Reference (2) | |
|--|--------|--|--|---|---------------------|---|--|--|---|---------------------|--|
| | | Q3 2021 | | Q3 2021 | | | Q3 2021 | | Q3 2021 | | |
| | | | | | | | | | | | |
| Assets | | | | | | Liabilities and Equity | | | | | |
| Cash and Cash Equivalents | | | | | | Deposits | | | | | |
| 1 83,825 83,424 | | | | | | 40 680,553 680,553 | | | | | |
| Interest Bearing Deposits with Banks | | | | | | Other Liabilities | | | | | |
| 2 8,793 8,793 | | | | | | Derivative instruments 41 29,167 28,943 | | | | | |
| Securities | | | | | | Acceptances 42 14,263 14,263 | | | | | |
| 3 230,776 220,371 | | | | | | Securities sold but not yet purchased 43 28,497 28,497 | | | | | |
| Investments in own shares CET1 (if not already netted off paid-in capital on reported balance sheet) 4 24 p | | | | | | Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities (3) 44 34,447 b1 | | | | | |
| Investments in own Additional Tier 1 instruments not derecognized for accounting purposes 5 3 t | | | | | | Securities lent or sold under repurchase agreements 45 92,990 92,990 | | | | | |
| Investments in own Tier 2 instruments not derecognized for accounting purposes 6 1 y | | | | | | Securitization and structured entities' liabilities 46 23,927 23,927 | | | | | |
| Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities (3) 7 35,358 a1 | | | | | | Current tax liabilities 47 154 147 | | | | | |
| Significant investments in the common stock of financials exceeding regulatory thresholds (4) 8 - | | | | | | Deferred tax liabilities (5) 48 188 188 | | | | | |
| Significant investments in the common stock of financials not exceeding regulatory thresholds (4) 9 2,003 c1 | | | | | | related to goodwill 49 229 g | | | | | |
| Goodwill embedded in significant investments 10 56 e | | | | | | related to intangibles 50 342 i | | | | | |
| Significant investments in the Additional Tier 1 instruments of banking, financial and insurance entities that are outside the scope of regulatory consolidation 11 78 u | | | | | | related to defined-benefit pension fund net assets 51 190 o | | | | | |
| Significant investments in the Tier 2 instruments of banking, financial and insurance entities that are outside the scope of regulatory consolidation 12 50 z | | | | | | related to deferred tax assets excluding those arising from temporary differences 52 12 k | | | | | |
| Securities Borrowed or Purchased Under Resale Agreements | | | | | | related to deferred tax assets arising from temporary differences 53 1,077 f1 | | | | | |
| 13 104,738 104,738 | | | | | | Other 54 36,950 23,771 | | | | | |
| Loans | | | | | | Total other liabilities 55 226,136 212,726 | | | | | |
| Residential mortgages 14 134,374 134,374 | | | | | | Subordinated Debt | | | | | |
| Consumer instalment and other personal 15 75,092 75,092 | | | | | | Subordinated debt 56 6,973 6,973 | | | | | |
| Credit cards 16 7,866 7,866 | | | | | | Directly issued qualifying subordinated debt 57 6,827 v | | | | | |
| Business and government 17 241,108 240,836 | | | | | | Directly issued subordinated debt subject to phase out 58 141 w | | | | | |
| Allowance for credit losses 18 (2,824) (2,824) | | | | | | Equity | | | | | |
| Transitional arrangements for capital treatment of ECL provisioning included in CET1 19 (401) q | | | | | | Preferred shares and other equity instruments 59 5,848 5,848 | | | | | |
| Allowance reflected in Tier 2 regulatory capital 20 (460) x | | | | | | Directly issued qualifying Additional Tier 1 instruments 60 5,558 r | | | | | |
| Shortfall of provisions to expected loss 21 - m | | | | | | Directly issued Additional Tier 1 instruments subject to phase out 61 - s | | | | | |
| Total net loans 22 455,616 455,344 | | | | | | Common shares 62 13,609 13,609 a | | | | | |
| Other Assets | | | | | | Contributed surplus 63 310 310 b | | | | | |
| Derivative instruments 23 36,331 36,329 | | | | | | Retained earnings 64 34,089 34,089 c | | | | | |
| Customers' liability under acceptances 24 14,263 14,263 | | | | | | Accumulated other comprehensive income of which: Cash flow hedges 66 3,840 3,840 d | | | | | |
| Premises and equipment 25 4,266 4,169 f | | | | | | Total Equity 67 57,696 57,696 i | | | | | |
| Goodwill 26 5,450 5,450 h | | | | | | Total Liabilities and Equity 68 971,358 957,948 | | | | | |
| Intangible assets 27 2,298 2,298 | | | | | | | | | | | |
| Current tax assets 28 1,145 1,145 | | | | | | | | | | | |
| Deferred tax assets (5) 29 1,209 1,217 j | | | | | | | | | | | |
| Deferred tax assets excluding those arising from temporary differences 30 32 | | | | | | | | | | | |
| Deferred tax assets arising from temporary differences 31 2,840 | | | | | | | | | | | |
| of which: exceeding regulatory thresholds 32 - | | | | | | | | | | | |
| of which: not exceeding regulatory thresholds 33 2,840 e1 | | | | | | | | | | | |
| Other 34 22,648 20,407 n | | | | | | | | | | | |
| Defined-benefit pension fund net assets 35 747 | | | | | | | | | | | |
| Mortgage servicing rights 36 27 | | | | | | | | | | | |
| of which: exceeding regulatory thresholds 37 - | | | | | | | | | | | |
| of which: not exceeding regulatory thresholds 38 27 d1 | | | | | | | | | | | |
| Total Assets 39 971,358 957,948 | | | | | | | | | | | |

(1) Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$14,507 million assets and \$1,290 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 (\$432 million assets and \$190 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.

(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.

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

FLOW STATEMENT OF BASEL III REGULATORY CAPITAL

| (\$ millions) | LINE | | | | | |
|--|------|---------|---------|---------|---------|---------|
| | # | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
| Common Equity Tier 1 Capital | | | | | | |
| Opening Balance | 1 | 41,415 | 40,935 | 40,077 | 38,984 | 38,425 |
| New capital issues | 2 | 40 | 32 | 27 | 267 | 215 |
| Redeemed capital or Treasury Shares | 3 | 33 | 3 | 44 | (37) | (15) |
| Gross dividends and distributions (deduction) | 4 | (747) | (754) | (742) | (737) | (755) |
| Net Income | 5 | 2,275 | 1,303 | 2,017 | 1,584 | 1,232 |
| Removal of own credit spread (net of tax) | 6 | (26) | (7) | 263 | (18) | 381 |
| Movements in other comprehensive income | | | | | | |
| Currency translation differences | 7 | 382 | (988) | (910) | (94) | (974) |
| Fair value through other comprehensive income securities | 8 | 24 | (108) | 48 | (18) | 123 |
| Other (1) | 9 | 76 | 439 | 30 | 10 | (519) |
| Goodwill and other intangible assets (deduction, net of related tax liability) | 10 | (39) | 931 | 277 | 57 | 397 |
| Other, including regulatory adjustments and transitional arrangements | | | | | | |
| Deferred tax assets that rely on future profitability (excluding those arising from temporary differences) | 11 | 10 | 17 | 52 | 29 | 144 |
| Prudential valuation adjustments | 12 | (24) | 48 | 36 | 11 | (6) |
| Other (2) | 13 | (70) | (436) | (284) | 39 | 336 |
| Closing Balance | 14 | 43,349 | 41,415 | 40,935 | 40,077 | 38,984 |
| Other non-core Tier 1 (Additional Tier 1) Capital | | | | | | |
| Opening Balance | 15 | 5,765 | 5,765 | 5,763 | 5,262 | 5,267 |
| New non-core tier 1 (Additional Tier 1) eligible capital issues | 16 | - | - | - | 1,250 | - |
| Redeemed capital | 17 | (290) | - | - | (750) | - |
| Other, including regulatory adjustments and transitional arrangements (3) | 18 | 2 | - | 2 | 1 | (5) |
| Closing Balance | 19 | 5,477 | 5,765 | 5,765 | 5,763 | 5,262 |
| Total Tier 1 Capital | 20 | 48,826 | 47,180 | 46,700 | 45,840 | 44,246 |
| Tier 2 Capital | | | | | | |
| Opening Balance | 21 | 6,303 | 7,884 | 8,821 | 8,903 | 7,516 |
| New Tier 2 eligible capital issues | 22 | 1,000 | - | - | - | 1,250 |
| Redeemed capital | 23 | - | (1,250) | (1,000) | - | - |
| Amortization adjustments | 24 | - | - | - | - | - |
| Other, including regulatory adjustments and transitional arrangements (4) | 25 | 74 | (331) | 63 | (82) | 137 |
| Closing Balance | 26 | 7,377 | 6,303 | 7,884 | 8,821 | 8,903 |
| Total Regulatory Capital | 27 | 56,203 | 53,483 | 54,584 | 54,661 | 53,149 |

(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 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
| Bank of Montreal Mortgage Corporation - Basel III (1) | | | | | | |
| Common Equity Tier 1 ratio | 1 | 22.4% | 21.7% | 22.1% | 20.8% | 21.5% |
| Tier 1 ratio | 2 | 22.4% | 21.7% | 22.1% | 20.8% | 21.5% |
| Total capital ratio | 3 | 22.5% | 21.8% | 22.2% | 21.0% | 21.7% |
| BMO Harris Bank N.A. - Basel III (2) | | | | | | |
| Tier 1 ratio | 4 | 13.4% | 13.1% | 12.4% | 12.4% | 12.1% |
| Total capital ratio | 5 | 14.8% | 14.8% | 14.2% | 14.2% | 13.6% |

(1) Capital ratios assume that all Basel III regulatory adjustments are applied effective January 1, 2013 and that the capital value of instruments which no longer qualify as regulatory capital under Basel III rules will be phased out at a rate of 10% per year from January 1, 2013, continuing to 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 2021, March 2021, December 2020, September 2020 and June 2020.

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

(\$ millions except as noted)

| | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
|---|---------|---------|---------|---------|---------|
| | a | b | c | d | e |
| 1 Total loss-absorbing capacity (TLAC) available | 84,036 | 77,277 | 80,861 | 77,870 | 77,004 |
| 1a Total loss-absorbing capacity (TLAC) available with transitional arrangements for ECL provisioning not applied | 84,036 | 77,277 | 80,861 | 77,870 | 77,004 |
| 2 Total RWA at the level of the resolution group | 322,529 | 319,802 | 328,822 | 336,607 | 337,377 |
| 3 TLAC ratio: TLAC as a percentage of RWA (row 1 / row 2) (%) | 26.1 % | 24.2 % | 24.6 % | 23.1 % | 22.8 % |
| 3a TLAC ratio: TLAC as a percentage of RWA (row 1a / row 2) (%) available with transitional arrangements for ECL provisioning not applied | 26.1 % | 24.2 % | 24.6 % | 23.1 % | 22.8 % |
| 4 Leverage ratio exposure measure at the level of the resolution group | 969,824 | 926,323 | 966,509 | 953,640 | 937,266 |
| 5 TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1 / row 4) (%) | 8.7 % | 8.3 % | 8.4 % | 8.2 % | 8.2 % |
| 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) (%) | 8.7 % | 8.3 % | 8.4 % | 8.2 % | 8.2 % |
| 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 Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply? | No | No | No | No | No |
| 6c If the capped subordination exemption applies, the amount of funding issued that ranks pari passu with Excluded Liabilities and that is recognized as external TLAC, divided by funding issued that ranks pari passu with Excluded Liabilities and that would be recognized as external TLAC if no cap was applied (%) | n.a. | n.a. | n.a. | n.a. | n.a. |

(1) BMO Financial Group uses the Single Point of Entry approach whereby the parent bank is the single resolution entity on which the resolution measures are applied.

KM2 is reported on a consolidated basis excluding insurance subsidiaries.

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

The scaling factor is set at 70% in fiscal 2020, 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 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
|---|--|---------|---------|---------|---------|---------|
| | | a | b | c | d | e |
| (\$ millions except as noted) | | | | | | |
| Regulatory capital elements of TLAC and adjustments | | | | | | |
| 1 | Common Equity Tier 1 capital (CET1) | 43,349 | 41,415 | 40,935 | 40,077 | 38,984 |
| 2 | Additional Tier 1 capital (AT1) before TLAC adjustments | 5,477 | 5,765 | 5,765 | 5,763 | 5,262 |
| 3 | AT1 ineligible as TLAC as issued out of subsidiaries to third parties | - | - | - | - | - |
| 4 | Other adjustments | - | - | - | - | - |
| 5 | AT1 instruments eligible under the TLAC framework | 5,477 | 5,765 | 5,765 | 5,763 | 5,262 |
| 6 | Tier 2 capital (T2) before TLAC adjustments | 7,377 | 6,303 | 7,884 | 8,821 | 8,903 |
| 7 | Amortized portion of T2 instruments where remaining maturity > 1 year | 5 | 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 | 7,382 | 6,308 | 7,889 | 8,821 | 8,903 |
| 11 | TLAC arising from regulatory capital | 56,208 | 53,488 | 54,589 | 54,661 | 53,149 |
| 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 | 27,905 | 23,816 | 26,318 | 23,280 | 23,855 |
| 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 | 27,905 | 23,816 | 26,318 | 23,280 | 23,855 |
| Non-regulatory capital elements of TLAC: adjustments | | | | | | |
| 18 | TLAC before deductions | 84,113 | 77,304 | 80,907 | 77,941 | 77,004 |
| 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 | (77) | (27) | (46) | (71) | - |
| 21 | Other adjustments to TLAC | - | - | - | - | - |
| 22 | TLAC available after deductions | 84,036 | 77,277 | 80,861 | 77,870 | 77,004 |
| Risk-weighted assets and leverage exposure measure for TLAC purposes | | | | | | |
| 23 | Total risk-weighted assets adjusted as permitted under the TLAC regime | 322,529 | 319,802 | 328,822 | 336,607 | 337,377 |
| 24 | Leverage exposure measure | 969,824 | 926,323 | 966,509 | 953,640 | 937,266 |
| TLAC ratios and buffers | | | | | | |
| 25 | TLAC Ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime) | 26.1 % | 24.2 % | 24.6 % | 23.1 % | 22.8 % |
| 26 | TLAC Leverage Ratio (as a percentage of leverage exposure) | 8.7 % | 8.3 % | 8.4 % | 8.2 % | 8.2 % |
| 27 | CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements (2) | n.a. | n.a. | n.a. | 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) Completion of this row is not required by OSFI at this time.

TLAC3 - RESOLUTION ENTITY - CREDITOR RANKING AT LEGAL ENTITY LEVEL (1)

(\$ millions)

| | | Q3 2021 | | | | | | Sum 1 to 6 |
|----|---|--------------------|------------------|----------------------------------|-------------------|------------------|-----------------------|---------------|
| | | Creditor ranking | | | | | | |
| | | 1 (most junior) | 2 | 3 | 4 | 5 | 6 (most senior) | |
| 1 | Description of creditor ranking | Common shares | Preferred shares | Additional Tier 1 Instruments | Subordinated debt | Bail-in debt (2) | Other liabilities (3) | |
| 2 | Total capital and liabilities net of credit risk mitigation | 13,609 | 3,650 | 1,908 | 6,870 | 31,697 | - | 57,734 |
| 3 | Subset of row 2 that are excluded liabilities | 15 | 3 | - | 1 | 72 | - | 91 |
| 4 | Total capital and liabilities less excluded liabilities (row 2 minus row 3) | 13,594 | 3,647 | 1,908 | 6,869 | 31,625 | - | 57,643 |
| 5 | Subset of row 4 that are potentially eligible as TLAC | 13,594 | 3,647 | 1,908 | 6,869 | 27,819 | - | 53,837 |
| 6 | Subset of row 5 with 1 year ≤ residual maturity < 2 years | - | - | - | - | 3,087 | - | 3,087 |
| 7 | Subset of row 5 with 2 years ≤ residual maturity < 5 years | - | - | - | 25 | 18,763 | - | 18,788 |
| 8 | Subset of row 5 with 5 years ≤ residual maturity < 10 years | - | - | - | 5,184 | 2,031 | - | 7,215 |
| 9 | Subset of row 5 with residual maturity ≥ 10 years, but excluding perpetual securities | - | - | 1,250 | 1,660 | 3,938 | - | 6,848 |
| 10 | Subset of row 5 that is perpetual securities | 13,594 | 3,647 | 658 | - | - | - | 17,899 |

(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

| (\$ millions) | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
|--|----------------|----------------|----------------|----------------|----------------|
| 1 Total consolidated assets as per published financial statements | 971,358 | 949,839 | 973,211 | 949,261 | 973,508 |
| 2 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation | (13,360) | (12,394) | (13,178) | (12,479) | (12,805) |
| 3 Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference | (5,899) | (6,171) | (6,781) | (8,094) | (8,359) |
| 4 Adjustment for fiduciary assets recognized on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure | - | - | - | - | - |
| 5 Adjustments for derivative financial instruments | 10,900 | 5,573 | 11,416 | 9,667 | 1,097 |
| 6 Adjustment for securities financing transactions (i.e. repo assets and similar secured lending) | 7,867 | 5,104 | 1,065 | 1,488 | 399 |
| 7 Adjustment for off-balance sheet items (i.e. credit equivalent amounts of off-balance sheet exposures) | 133,529 | 130,403 | 130,473 | 134,443 | 129,444 |
| 8 Other adjustments (1) | (134,571) | (146,031) | (129,697) | (120,646) | (146,018) |
| 9 Leverage Ratio Exposure Measure | 969,824 | 926,323 | 966,509 | 953,640 | 937,266 |

LR2 - LEVERAGE RATIO COMMON DISCLOSURE

| (\$ millions except as noted) | Leverage ratio framework | | | | |
|--|--------------------------|----------------|----------------|----------------|----------------|
| | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
| On-balance sheet exposures | | | | | |
| 1 On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral) | 685,770 | 658,010 | 678,238 | 670,168 | 659,962 |
| 2 Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework | - | - | - | - | - |
| 3 (Deductions of receivables assets for cash variation margin provided in derivative transactions) | (3,800) | (3,997) | (4,625) | (4,996) | (7,329) |
| 4 (Asset amounts deducted in determining transitional Tier 1 capital) | (9,310) | (9,090) | (10,308) | (10,817) | (11,148) |
| 5 Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 to 4) | 672,660 | 644,923 | 663,305 | 654,355 | 641,485 |
| Derivative exposures | | | | | |
| 6 Replacement cost associated with all derivative transactions (2) | 25,961 | 23,874 | 23,380 | 26,144 | 26,864 |
| 7 Add-on amounts for potential future exposure associated with all derivative transactions (3) | 26,612 | 25,760 | 28,067 | 27,024 | 23,382 |
| 8 (Exempted central counterparty-leg of client cleared trade exposures) | (1,662) | (2,198) | (1,468) | (1,828) | (3,170) |
| 9 Adjusted effective notional amount of written credit derivatives | 23,217 | 21,155 | 20,888 | 19,958 | 18,277 |
| 10 (Adjusted effective notional offsets and add-on deductions for written credit derivatives) | (23,099) | (21,025) | (20,775) | (19,823) | (18,133) |
| 11 Total derivative exposures (sum of lines 6 to 10) | 51,029 | 47,566 | 50,092 | 51,475 | 47,220 |
| Securities financing transaction exposures | | | | | |
| 12 Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions | 108,787 | 100,805 | 123,301 | 115,865 | 123,547 |
| 13 (Netted amounts of cash payables and cash receivables of gross SFT assets) | (7,811) | (7,898) | (9,207) | (9,813) | (9,948) |
| 14 Counterparty credit risk (CCR) exposure for SFTs | 11,630 | 10,524 | 8,545 | 7,315 | 5,518 |
| 15 Agent transaction exposures | - | - | - | - | - |
| 16 Total securities financing transaction exposures (sum of lines 12 to 15) | 112,606 | 103,431 | 122,639 | 113,367 | 119,117 |
| Other off-balance sheet exposures | | | | | |
| 17 Off-balance sheet exposure at gross notional amount | 417,296 | 408,277 | 400,296 | 411,215 | 402,486 |
| 18 (Adjustments for conversion to credit equivalent amounts) | (283,767) | (277,874) | (269,823) | (276,772) | (273,042) |
| 19 Off-balance sheet items (sum of lines 17 and 18) | 133,529 | 130,403 | 130,473 | 134,443 | 129,444 |
| Capital and Total Exposures | | | | | |
| 20 Tier 1 capital | 48,826 | 47,180 | 46,700 | 45,840 | 44,246 |
| 20a Tier 1 Capital with transitional arrangements for ECL provisioning not applied | 48,425 | 46,780 | 46,202 | 45,125 | 43,556 |
| 21 Total Exposures (sum of lines 5, 11, 16 and 19) | 969,824 | 926,323 | 966,509 | 953,640 | 937,266 |
| Leverage Ratios | | | | | |
| 22 Basel III leverage ratio | 5.0% | 5.1% | 4.8% | 4.8% | 4.7% |
| 22a Leverage ratio with transitional arrangements for ECL provisioning not applied | 5.0% | 5.1% | 4.8% | 4.7% | 4.6% |

(1) Includes temporary exclusions announced by OSFI in April 2020.

(2) Represents replacement cost after applying alpha equal to 1.4.

(3) Represents potential future exposure after applying alpha equal to 1.4.

OV1 - OVERVIEW OF RWA (1)

| (\$ millions) | | RWA (2) | | | | | Minimum capital requirements |
|---------------|--|---------|---------|---------|---------|---------|------------------------------|
| | | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 | Q3 2021 |
| | | a | b | c | d | e | f |
| 1 | Credit risk (excluding counterparty credit risk (CCR)) | 236,012 | 234,802 | 243,291 | 252,268 | 254,549 | 18,881 |
| 2 | Of which standardized approach (SA) | 35,554 | 34,637 | 41,198 | 41,664 | 42,386 | 2,844 |
| 3 | Of which internal rating-based (IRB) approach | 200,458 | 200,165 | 202,093 | 210,604 | 212,163 | 16,037 |
| 4 | Counterparty credit risk | 19,865 | 20,748 | 21,602 | 19,842 | 18,361 | 1,590 |
| 5 | Of which standardized approach for counterparty credit risk (SA-CCR) | 11,159 | 10,987 | 11,524 | 11,605 | 10,354 | 893 |
| 6 | Of which internal model method (IMM) | - | - | - | - | - | - |
| 6a | Of which comprehensive approach for credit risk mitigation (for SFTs) | 4,078 | 4,606 | 4,165 | 3,408 | 3,647 | 326 |
| 6b | Of which CVA capital charge | 3,795 | 4,563 | 5,036 | 4,198 | 3,754 | 304 |
| 6c | Of which exposures to QCCP | 833 | 592 | 877 | 631 | 606 | 67 |
| 7 | Equity positions in banking book under market-based approach | - | - | - | - | - | - |
| 8 | Equity investments in funds – look-through approach | 567 | 598 | 122 | 97 | 85 | 45 |
| 9 | Equity investments in funds – mandate-based approach | 1,711 | 1,563 | 1,428 | 1,363 | 1,291 | 137 |
| 10 | Equity investments in funds – fall-back approach | 151 | 150 | 230 | 214 | 191 | 12 |
| 11 | Settlement risk | 5 | 5 | - | - | - | - |
| 12 | Securitization exposures in banking book | 4,304 | 4,563 | 4,887 | 5,761 | 6,299 | 344 |
| 13 | Of which securitization internal ratings-based approach (SEC-IRBA) | 3,241 | 3,560 | 3,804 | 4,386 | 4,895 | 259 |
| 14 | Of which securitization external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA) | 135 | 132 | 134 | 304 | 304 | 11 |
| 15 | Of which securitization standardized approach (SEC-SA) | 928 | 871 | 949 | 1,071 | 1,100 | 74 |
| 16 | Market risk | 10,395 | 8,553 | 9,111 | 9,348 | 9,609 | 831 |
| 17 | Of which standardized approach (SA) (3) | 340 | 189 | 151 | 159 | 289 | 27 |
| 18 | Of which internal model approaches (IMM) | 10,055 | 8,364 | 8,960 | 9,189 | 9,320 | 804 |
| 19 | Operational risk | 40,036 | 39,404 | 38,779 | 38,342 | 37,799 | 3,203 |
| 20 | Of which Basic Indicator Approach | - | - | - | - | - | - |
| 21 | Of which Standardized Approach | 40,036 | 39,404 | 38,779 | 38,342 | 37,799 | 3,203 |
| 22 | Of which Advanced Measurement Approach | - | - | - | - | - | - |
| 23 | Amounts below the thresholds for deduction (subject to 250% risk weight) | 9,483 | 9,416 | 9,372 | 9,372 | 9,193 | 759 |
| 24 | Floor adjustment (4) | - | - | - | - | - | - |
| 25 | Total | 322,529 | 319,802 | 328,822 | 336,607 | 337,377 | 25,802 |

(1) Risk weighted assets (RWA) were \$322.5 billion as at July 31, 2021, an increase from \$319.8 billion as at April 30, 2021, primarily due to increased asset size, the impact of foreign exchange movements and higher market risk capital requirements driven by the unwinding of the temporary reduction in the Stressed Value at Risk (SVaR) multiplier, partially offset by changes in asset quality.

(2) The 1.06 AIRB scaling factor is applied to the risk-weighted asset amounts as applicable.

(3) Standardized approach market risk RWA reflects specific risk on securitization positions in the trading book.

(4) Under OSFI's CAR Guideline, which governs advanced approaches, the Bank calculates a Basel Capital Floor and increases its risk-weighted assets if the Capital Floor applies. Based on these requirements, there was no capital floor applicable for Q3 2020 through Q3 2021.

RISK-WEIGHTED ASSETS BY OPERATING GROUPS

| (\$ millions) | LINE # | RWA | | | | |
|---|--------|---------|---------|---------|---------|---------|
| | | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
| Personal and Commercial Banking | 1 | 193,337 | 191,701 | 196,869 | 201,926 | 204,228 |
| BMO Wealth Management | 2 | 23,476 | 23,251 | 23,777 | 23,504 | 22,678 |
| BMO Capital Markets | 3 | 91,983 | 91,065 | 93,569 | 97,057 | 96,950 |
| Corporate Services, including Technology and Operations | 4 | 13,733 | 13,785 | 14,607 | 14,120 | 13,521 |
| Total Risk-Weighted Assets | 5 | 322,529 | 319,802 | 328,822 | 336,607 | 337,377 |

L11 - DIFFERENCES BETWEEN ACCOUNTING AND REGULATORY SCOPES OF CONSOLIDATION AND MAPPING OF FINANCIAL STATEMENTS WITH REGULATORY RISK CATEGORIES

| (\$ millions) | | Q3 2021 | | | | | | | |
|--|-----------|----------------|---|---|----------------------------------|---|---|--------------------------------------|--|
| | | LINE # | Carrying values as reported in published financial statements | Carrying values under scope of regulatory consolidation (1) | Carrying values of items: | | | | |
| | | | | | 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 |
| a | b | c | d | e | f | g | | | |
| Assets | | | | | | | | | |
| Cash and Cash Equivalents | 1 | 83,825 | 83,424 | 83,424 | - | - | - | - | |
| Interest Bearing Deposits with Banks | 2 | 8,793 | 8,793 | 8,787 | - | - | 6 | - | |
| Securities | 3 | 230,776 | 220,371 | 117,379 | - | 712 | 102,177 | 103 | |
| Securities Borrowed or Purchased Under Resale Agreements | 4 | 104,738 | 104,738 | - | 104,738 | - | - | - | |
| Loans | | | | | | | | | |
| Residential mortgages | 5 | 134,374 | 134,374 | 134,374 | - | - | - | - | |
| Consumer instalment and other personal | 6 | 75,092 | 75,092 | 73,177 | - | 35 | - | 1,880 | |
| Credit cards | 7 | 7,866 | 7,866 | 4,116 | - | - | - | 3,750 | |
| Business and government | 8 | 241,108 | 240,836 | 224,013 | 1,444 | 13,910 | 4,196 | 269 | |
| Allowance for credit losses | 9 | (2,824) | (2,824) | (46) | - | (1) | - | (2,777) | |
| Other Assets | | | | | | | | | |
| Derivative instruments | 10 | 36,331 | 36,329 | - | 36,329 | - | 33,246 | - | |
| Customers' liability under acceptances | 11 | 14,263 | 14,263 | 14,263 | - | - | - | - | |
| Premises and equipment | 12 | 4,266 | 4,169 | 4,169 | - | - | - | - | |
| Goodwill | 13 | 5,450 | 5,450 | - | - | - | - | 5,450 | |
| Intangible assets | 14 | 2,298 | 2,298 | - | - | - | - | 2,298 | |
| Current tax assets | 15 | 1,145 | 1,145 | 1,145 | - | - | - | - | |
| Deferred tax assets | 16 | 1,209 | 1,217 | 1,185 | - | - | - | 32 | |
| Other | 17 | 22,648 | 20,407 | 10,556 | 5,829 | - | 3,359 | 747 | |
| Total assets | 18 | 971,358 | 957,948 | 676,542 | 148,340 | 14,656 | 142,984 | 11,752 | |
| Liabilities | | | | | | | | | |
| Deposits | 19 | 680,553 | 680,553 | - | - | - | 22,085 | 658,468 | |
| Other Liabilities | | | | | | | | | |
| Derivative instruments | 20 | 29,167 | 28,943 | - | 28,944 | - | 26,685 | - | |
| Acceptances | 21 | 14,263 | 14,263 | - | - | - | - | 14,263 | |
| Securities sold but not yet purchased | 22 | 28,497 | 28,497 | - | - | - | 28,497 | - | |
| Securities lent or sold under repurchase agreements | 23 | 92,990 | 92,990 | - | 92,990 | - | - | - | |
| Securitization and structured entities' liabilities | 24 | 23,927 | 23,927 | - | - | - | - | 23,927 | |
| Current tax liabilities | 25 | 154 | 147 | - | - | - | - | 147 | |
| Deferred tax liabilities | 26 | 188 | 188 | - | - | - | - | 188 | |
| Other | 27 | 36,950 | 23,771 | - | - | - | 85 | 23,686 | |
| Subordinated Debt | 28 | 6,973 | 6,973 | - | - | - | - | 6,973 | |
| Total liabilities | 29 | 913,662 | 900,252 | - | 121,934 | - | 77,352 | 727,652 | |

(1) Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$14,507 million assets and \$1,290 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 (\$432 million assets and \$190 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.

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

(\$ millions)

| | | Q3 2021 | | | | |
|----|--|-------------------|-----------------------|------------------------------------|--------------------------|-----------------------|
| | | Items subject to: | | | | |
| | | Total | Credit risk framework | Counterparty credit risk framework | Securitization framework | Market risk framework |
| | | a | b | c | d | e |
| 1 | Asset carrying value amount under scope of regulatory consolidation (as per template L11) (1) | 946,196 | 676,542 | 148,340 | 14,656 | 142,984 |
| 2 | Liabilities carrying value amount under regulatory scope of consolidation (as per template L11) (1) | 172,600 | - | 121,934 | - | 77,352 |
| 3 | Total net amount under regulatory scope of consolidation | 773,596 | 676,542 | 26,406 | 14,656 | 65,632 |
| 4 | Off-balance sheet amounts | 277,467 | 192,468 | 69,114 | 15,885 | - |
| 5 | Differences due to different netting rules and other adjustments for derivatives, other than those already included in row 2 | 14,751 | 577 | 14,174 | - | - |
| 6 | Differences due to consideration of provisions | 510 | 510 | - | - | - |
| 7 | Exposures related to liability repo-style transactions | 185,980 | - | 185,980 | - | - |
| 8 | Potential future exposure on derivatives | 30,441 | - | 30,441 | - | - |
| 9 | Differences due to consideration of CRM | (232,463) | - | (231,281) | (1,182) | - |
| 10 | Exposure amounts considered for regulatory purposes (2) | 1,050,282 | 870,097 | 94,834 | 29,359 | 65,632 |

(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 relate to amounts for AIRB exposures reported gross of 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)

| LINE # | | Q3 2021 | | | | | | Net values (a + b - c) |
|-----------------------------|----------|-----------------------------|-------------------------|------------------------------|---|---|--|------------------------|
| | | Gross carrying values of | | Allowances / impairments (4) | Of which: ECL accounting provisions for credit losses on SA exposures | | Of which: ECL accounting provisions for credit losses on IRB exposures | |
| | | Defaulted exposures (2) (3) | Non-defaulted exposures | | Allocated in regulatory category of Specific | Allocated in regulatory category of General | | |
| (\$ millions) | # | a | b | c | d | e | 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 |

CR1 - CREDIT QUALITY OF ASSETS (1)

| LINE # | | Q2 2021 | | | | | | Net values (a + b - c) |
|-----------------------------|----------|-----------------------------|-------------------------|------------------------------|---|---|--|------------------------|
| | | Gross carrying values of | | Allowances / impairments (4) | Of which: ECL accounting provisions for credit losses on SA exposures | | Of which: ECL accounting provisions for credit losses on IRB exposures | |
| | | Defaulted exposures (2) (3) | Non-defaulted exposures | | Allocated in regulatory category of Specific | Allocated in regulatory category of General | | |
| (\$ millions) | # | a | b | c | d | e | f | g |
| Loans | 1 | 2,989 | 435,127 | 2,763 | 49 | 158 | 2,556 | 435,353 |
| Debt securities | 2 | - | 106,849 | 3 | - | - | 3 | 106,846 |
| Off-balance sheet exposures | 3 | 886 | 183,330 | 419 | 8 | 36 | 375 | 183,797 |
| Total | 4 | 3,875 | 725,306 | 3,185 | 57 | 194 | 2,934 | 725,996 |

CR1 - CREDIT QUALITY OF ASSETS (1)

| LINE # | | Q1 2021 | | | | | | Net values (a + b - c) |
|-----------------------------|----------|-----------------------------|-------------------------|------------------------------|---|---|--|------------------------|
| | | Gross carrying values of | | Allowances / impairments (4) | Of which: ECL accounting provisions for credit losses on SA exposures | | Of which: ECL accounting provisions for credit losses on IRB exposures | |
| | | Defaulted exposures (2) (3) | Non-defaulted exposures | | Allocated in regulatory category of Specific | Allocated in regulatory category of General | | |
| (\$ millions) | # | a | b | c | d | e | f | g |
| Loans | 1 | 3,488 | 440,295 | 2,931 | 35 | 206 | 2,690 | 440,852 |
| Debt securities | 2 | - | 118,279 | 3 | - | - | 3 | 118,276 |
| Off-balance sheet exposures | 3 | 1,212 | 183,977 | 462 | 9 | 16 | 437 | 184,727 |
| Total | 4 | 4,700 | 742,551 | 3,396 | 44 | 222 | 3,130 | 743,855 |

CR1 - CREDIT QUALITY OF ASSETS (1)

| LINE # | | Q4 2020 | | | | | | Net values (a + b - c) |
|-----------------------------|----------|-----------------------------|-------------------------|------------------------------|---|---|--|------------------------|
| | | Gross carrying values of | | Allowances / impairments (4) | Of which: ECL accounting provisions for credit losses on SA exposures | | Of which: ECL accounting provisions for credit losses on IRB exposures | |
| | | Defaulted exposures (2) (3) | Non-defaulted exposures | | Allocated in regulatory category of Specific | Allocated in regulatory category of General | | |
| (\$ millions) | # | a | b | c | d | e | f | g |
| Loans | 1 | 3,633 | 435,280 | 2,939 | 37 | 266 | 2,636 | 435,974 |
| Debt securities | 2 | - | 120,876 | 5 | - | - | 5 | 120,871 |
| Off-balance sheet exposures | 3 | 1,261 | 188,230 | 488 | 10 | 26 | 452 | 189,003 |
| Total | 4 | 4,894 | 744,386 | 3,432 | 47 | 292 | 3,093 | 745,848 |

CR1 - CREDIT QUALITY OF ASSETS (1)

| LINE # | | Q3 2020 | | | | | | Net values (a + b - c) |
|-----------------------------|----------|-----------------------------|-------------------------|------------------------------|---|---|--|------------------------|
| | | Gross carrying values of | | Allowances / impairments (4) | Of which: ECL accounting provisions for credit losses on SA exposures | | Of which: ECL accounting provisions for credit losses on IRB exposures | |
| | | Defaulted exposures (2) (3) | Non-defaulted exposures | | Allocated in regulatory category of Specific | Allocated in regulatory category of General | | |
| (\$ millions) | # | a | b | c | d | e | f | g |
| Loans | 1 | 4,325 | 437,139 | 2,880 | 49 | 288 | 2,543 | 438,584 |
| Debt securities | 2 | - | 122,745 | 5 | - | 1 | 4 | 122,740 |
| Off-balance sheet exposures | 3 | 1,164 | 181,017 | 433 | 10 | 30 | 393 | 181,748 |
| Total | 4 | 5,489 | 740,901 | 3,318 | 59 | 319 | 2,940 | 743,072 |

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

(2) 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.

(3) There were no defaulted debt securities.

(4) 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).

CR2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)

(\$ millions)

Q3 2021

a

| | | |
|---|--|-------|
| 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 |

CR2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)

(\$ millions)

Q2 2021

a

| | | |
|---|--|-------|
| 1 | Defaulted loans and debt securities at end of the previous financial reporting period | 3,488 |
| 2 | Loans and debt securities that have defaulted since the last reporting period | 398 |
| 3 | Returned to non-defaulted status | (193) |
| 4 | Amounts written off | (139) |
| 5 | Other charges | (565) |
| 6 | Defaulted loans and debt securities at end of the reporting period | 2,989 |

CR2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)

(\$ millions)

Q1 2021

a

| | | |
|---|--|-------|
| 1 | Defaulted loans and debt securities at end of the previous financial reporting period | 3,633 |
| 2 | Loans and debt securities that have defaulted since the last reporting period | 614 |
| 3 | Returned to non-defaulted status | (184) |
| 4 | Amounts written off | (180) |
| 5 | Other charges | (395) |
| 6 | Defaulted loans and debt securities at end of the reporting period | 3,488 |

CR2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)

(\$ millions)

Q4 2020

a

| | | |
|---|--|-------|
| 1 | Defaulted loans and debt securities at end of the previous financial reporting period | 4,325 |
| 2 | Loans and debt securities that have defaulted since the last reporting period | 671 |
| 3 | Returned to non-defaulted status | (291) |
| 4 | Amounts written off | (272) |
| 5 | Other charges | (800) |
| 6 | Defaulted loans and debt securities at end of the reporting period | 3,633 |

CR2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)

(\$ millions)

Q3 2020

a

| | | |
|---|--|-------|
| 1 | Defaulted loans and debt securities at end of the previous financial reporting period | 3,825 |
| 2 | Loans and debt securities that have defaulted since the last reporting period | 1,500 |
| 3 | Returned to non-defaulted status | (118) |
| 4 | Amounts written off | (382) |
| 5 | Other charges | (500) |
| 6 | Defaulted loans and debt securities at end of the reporting period | 4,325 |

(1) There were no defaulted debt securities.

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

**CR3 - CREDIT RISK MITIGATION
TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)**

(\$ millions)

| | | Q3 2021 | | | | |
|---|---------------------|---|----------------------------|------------------------------------|--|--|
| | | Unsecured exposures: carrying amount | Exposures to be secured | Exposures secured by collateral | Exposures secured by financial guarantees | Exposures secured by credit derivatives (6) |
| | | a | b1 | b | d | f |
| 1 | Loans | 394,635 | 52,745 | - | 47,905 | - |
| 2 | Debt securities | 112,120 | - | - | - | - |
| 3 | Total | 506,755 | 52,745 | - | 47,905 | - |
| 4 | Of which: defaulted | 1,752 | 232 | - | 152 | - |

**CR3 - CREDIT RISK MITIGATION
TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)**

(\$ millions)

| | | Q2 2021 | | | | |
|---|---------------------|---|----------------------------|------------------------------------|--|--|
| | | Unsecured exposures: carrying amount | Exposures to be secured | Exposures secured by collateral | Exposures secured by financial guarantees | Exposures secured by credit derivatives (6) |
| | | a | b1 | b | d | f |
| 1 | Loans | 380,062 | 55,291 | - | 52,546 | - |
| 2 | Debt securities | 106,846 | - | - | - | - |
| 3 | Total | 486,908 | 55,291 | - | 52,546 | - |
| 4 | Of which: defaulted | 2,052 | 343 | - | 230 | - |

**CR3 - CREDIT RISK MITIGATION
TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)**

(\$ millions)

| | | Q1 2021 | | | | |
|---|---------------------|---|----------------------------|------------------------------------|--|--|
| | | Unsecured exposures: carrying amount | Exposures to be secured | Exposures secured by collateral | Exposures secured by financial guarantees | Exposures secured by credit derivatives (6) |
| | | a | b1 | b | d | f |
| 1 | Loans | 385,789 | 55,063 | - | 52,671 | - |
| 2 | Debt securities | 118,276 | - | - | - | - |
| 3 | Total | 504,065 | 55,063 | - | 52,671 | - |
| 4 | Of which: defaulted | 2,410 | 398 | - | 231 | - |

**CR3 - CREDIT RISK MITIGATION
TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)**

(\$ millions)

| | | Q4 2020 | | | | |
|---|---------------------|---|----------------------------|------------------------------------|--|--|
| | | Unsecured exposures: carrying amount | Exposures to be secured | Exposures secured by collateral | Exposures secured by financial guarantees | Exposures secured by credit derivatives (6) |
| | | a | b1 | b | d | f |
| 1 | Loans | 380,069 | 55,905 | - | 54,408 | - |
| 2 | Debt securities | 120,871 | - | - | - | - |
| 3 | Total | 500,940 | 55,905 | - | 54,408 | - |
| 4 | Of which: defaulted | 2,499 | 410 | - | 223 | - |

**CR3 - CREDIT RISK MITIGATION
TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)**

(\$ millions)

| | | Q3 2020 | | | | |
|---|---------------------|---|----------------------------|------------------------------------|--|--|
| | | Unsecured exposures: carrying amount | Exposures to be secured | Exposures secured by collateral | Exposures secured by financial guarantees | Exposures secured by credit derivatives (6) |
| | | a | b1 | b | d | f |
| 1 | Loans | 378,885 | 59,699 | - | 55,764 | - |
| 2 | Debt securities | 122,740 | - | - | - | - |
| 3 | Total | 501,625 | 59,699 | - | 55,764 | - |
| 4 | Of which: defaulted | 3,018 | 592 | - | 238 | - |

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

(2) There were no defaulted debt securities.

(3) Secured exposures include exposures where credit risk mitigation techniques are used to reduce capital requirements in accordance with OSFI's CAR Guideline, Chapter 5, Credit Risk Mitigation. Where collateral is reflected in the risk parameters (PDs and LGDs) for AIRB exposures and risk weights for exposures under standardized approach, the carrying amount is reported as an unsecured exposure.

(4) Loans and Debt securities balances are net of allowance for credit losses on performing loans and impaired loans (excluding those related to off-balance sheet instruments and undrawn commitments).

(5) Defaulted balances are net of allowance for credit losses on impaired loans, excluding off-balance sheet instruments and undrawn commitments.

(6) There were no credit derivatives used as CRM techniques from Q3 2020 through Q3 2021.

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK MITIGATION (CRM) EFFECTS (1) (2)

(\$ millions except as noted)

| Asset classes | Q3 2021 | | | | | |
|---|------------------------------|--------------------------|----------------------------|--------------------------|---------------------|-------------|
| | Exposures before CCF and CRM | | Exposures post CCF and CRM | | RWA and RWA density | |
| | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| | a | b | c | d | e | f |
| 1 Sovereigns and their central banks | 11 | - | 11 | - | - | 0.00% |
| 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 | 14 | 672 | 14 | 16 | 6 | 20.00% |
| 6 Corporates | 13,816 | 13,051 | 13,816 | 4,390 | 17,495 | 96.09% |
| 7 Regulatory retail portfolios | 5,285 | 6,050 | 5,285 | 314 | 3,958 | 70.68% |
| 8 Secured by residential property | 640 | 113 | 640 | 41 | 285 | 41.85% |
| 9 Secured by commercial real estate | 302 | 31 | 302 | 20 | 322 | 100.00% |
| 10 Equity | 1,623 | 446 | 1,623 | 223 | 1,465 | 79.35% |
| 11 Defaulted exposures | 283 | 36 | 283 | 4 | 391 | 136.64% |
| 12 Higher-risk categories (3) | 108 | 252 | 108 | 109 | 325 | 150.00% |
| 13 Other assets | 9,497 | - | 9,497 | - | 11,182 | 117.74% |
| 14 Total | 31,822 | 21,107 | 31,822 | 5,387 | 35,554 | 95.55% |

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK MITIGATION (CRM) EFFECTS (1) (2)

(\$ millions except as noted)

| Asset classes | Q2 2021 | | | | | |
|---|------------------------------|--------------------------|----------------------------|--------------------------|---------------------|-------------|
| | Exposures before CCF and CRM | | Exposures post CCF and CRM | | RWA and RWA density | |
| | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| | a | b | c | d | e | f |
| 1 Sovereigns and their central banks | 11 | - | 11 | - | - | 0.00% |
| 2 Non-central government public sector entities | 246 | 7 | 246 | 2 | 73 | 29.36% |
| 3 Multilateral development banks | - | - | - | - | - | - |
| 4 Banks | 7 | 462 | 7 | 272 | 56 | 20.00% |
| 5 Securities firms | 1 | 674 | 1 | 18 | 4 | 20.00% |
| 6 Corporates | 14,099 | 10,547 | 14,099 | 4,155 | 16,870 | 92.42% |
| 7 Regulatory retail portfolios | 4,936 | 5,932 | 4,936 | 292 | 3,650 | 69.82% |
| 8 Secured by residential property | 688 | 119 | 688 | 42 | 306 | 41.87% |
| 9 Secured by commercial real estate | 313 | 63 | 313 | 32 | 344 | 100.00% |
| 10 Equity | 1,490 | 402 | 1,490 | 201 | 1,310 | 77.44% |
| 11 Defaulted exposures | 403 | 42 | 403 | 8 | 544 | 132.43% |
| 12 Higher-risk categories (3) | 66 | 311 | 66 | 142 | 312 | 150.00% |
| 13 Other assets | 9,555 | - | 9,555 | - | 11,168 | 116.88% |
| 14 Total | 31,815 | 18,559 | 31,815 | 5,164 | 34,637 | 93.67% |

(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

MITIGATION (CRM) EFFECTS (1) (2)

(\$ millions except as noted)

| Asset classes | Q1 2021 | | | | | |
|---|------------------------------|--------------------------|----------------------------|--------------------------|---------------------|---------------|
| | Exposures before CCF and CRM | | Exposures post CCF and CRM | | RWA and RWA density | |
| | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| | a | b | c | d | e | f |
| 1 Sovereigns and their central banks | 12 | - | 12 | - | - | 0.00% |
| 2 Non-central government public sector entities | 268 | 47 | 268 | 12 | 83 | 29.74% |
| 3 Multilateral development banks | - | - | - | - | - | - |
| 4 Banks | 9 | 438 | 9 | 253 | 52 | 20.00% |
| 5 Securities firms | 4 | 699 | 4 | 26 | 6 | 20.00% |
| 6 Corporates | 15,639 | 11,305 | 15,639 | 4,357 | 18,399 | 92.01% |
| 7 Regulatory retail portfolios | 10,929 | 5,892 | 10,929 | 224 | 8,208 | 73.60% |
| 8 Secured by residential property | 785 | 132 | 785 | 47 | 353 | 42.36% |
| 9 Secured by commercial real estate | 376 | 71 | 376 | 37 | 413 | 100.00% |
| 10 Equity | 1,530 | 391 | 1,530 | 195 | 1,305 | 75.63% |
| 11 Defaulted exposures | 568 | 63 | 568 | 19 | 797 | 135.92% |
| 12 Higher-risk categories (3) | 99 | 345 | 99 | 161 | 390 | 150.00% |
| 13 Other assets | 9,500 | - | 9,500 | - | 11,192 | 117.80% |
| 14 Total | 39,719 | 19,383 | 39,719 | 5,331 | 41,198 | 91.45% |

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK

MITIGATION (CRM) EFFECTS (1) (2)

(\$ millions except as noted)

| Asset classes | Q4 2020 | | | | | |
|---|------------------------------|--------------------------|----------------------------|--------------------------|---------------------|---------------|
| | Exposures before CCF and CRM | | Exposures post CCF and CRM | | RWA and RWA density | |
| | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| | a | b | c | d | e | f |
| 1 Sovereigns and their central banks | 18 | - | 18 | - | - | 0.00% |
| 2 Non-central government public sector entities | 285 | 46 | 285 | 12 | 95 | 31.68% |
| 3 Multilateral development banks | - | - | - | - | - | - |
| 4 Banks | 5 | 423 | 5 | 232 | 47 | 20.00% |
| 5 Securities firms | 3 | 662 | 3 | 27 | 6 | 20.00% |
| 6 Corporates | 16,579 | 11,428 | 16,579 | 4,518 | 19,193 | 90.97% |
| 7 Regulatory retail portfolios | 10,736 | 6,064 | 10,736 | 217 | 8,083 | 73.80% |
| 8 Secured by residential property | 896 | 145 | 896 | 52 | 404 | 42.63% |
| 9 Secured by commercial real estate | 429 | 66 | 429 | 35 | 464 | 100.00% |
| 10 Equity | 1,507 | 381 | 1,507 | 191 | 1,266 | 74.57% |
| 11 Defaulted exposures | 676 | 75 | 676 | 20 | 948 | 136.22% |
| 12 Higher-risk categories (3) | 197 | 273 | 197 | 124 | 481 | 150.00% |
| 13 Other assets | 9,197 | - | 9,197 | - | 10,677 | 116.10% |
| 14 Total | 40,528 | 19,563 | 40,528 | 5,428 | 41,664 | 90.66% |

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK

MITIGATION (CRM) EFFECTS (1) (2)

(\$ millions except as noted)

| Asset classes | Q3 2020 | | | | | |
|---|------------------------------|--------------------------|----------------------------|--------------------------|---------------------|---------------|
| | Exposures before CCF and CRM | | Exposures post CCF and CRM | | RWA and RWA density | |
| | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| | a | b | c | d | e | f |
| 1 Sovereigns and their central banks | 14 | - | 14 | - | - | 0.00% |
| 2 Non-central government public sector entities | 268 | 48 | 268 | 14 | 92 | 32.78% |
| 3 Multilateral development banks | - | - | - | - | - | - |
| 4 Banks | 11 | 399 | 11 | 224 | 47 | 20.00% |
| 5 Securities firms | 26 | 509 | 26 | 16 | 9 | 20.00% |
| 6 Corporates | 17,759 | 11,257 | 17,759 | 4,597 | 20,348 | 91.02% |
| 7 Regulatory retail portfolios | 10,304 | 6,218 | 10,304 | 233 | 7,788 | 73.91% |
| 8 Secured by residential property | 950 | 154 | 950 | 56 | 430 | 42.80% |
| 9 Secured by commercial real estate | 428 | 77 | 428 | 39 | 467 | 100.00% |
| 10 Equity | 1,474 | 363 | 1,474 | 182 | 1,231 | 74.37% |
| 11 Defaulted exposures | 820 | 137 | 820 | 52 | 1,207 | 138.31% |
| 12 Higher-risk categories (3) | 144 | 415 | 144 | 169 | 470 | 150.00% |
| 13 Other assets | 9,193 | - | 9,193 | - | 10,297 | 112.01% |
| 14 Total | 41,391 | 19,577 | 41,391 | 5,582 | 42,386 | 90.23% |

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

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

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

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

(\$ millions)

| Asset classes | | Q3 2021 | | | | | | | | | Total credit exposures amount (post-CCF and post-CRM) | |
|---------------|---|--------------|----------|--------------|------------|------------|--------------|---------------|------------|------------|---|---------------|
| | | Risk Weight | | | | | | | | | | |
| | | 0% | 10% | 20% | 35% | 50% | 75% | 100% | 150% | Others | | |
| | | a | b | c | d | e | 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 | - | 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 | - | - | - | - | - | - | 322 | - | - | - | 322 |
| 10 | Equity | 451 | - | 17 | - | - | - | 1,378 | - | - | - | 1,846 |
| 11 | Defaulted exposures | 8 | - | - | - | - | - | 53 | 226 | - | - | 287 |
| 12 | Higher-risk categories (4) | - | - | - | - | - | - | - | 217 | - | - | 217 |
| 13 | Other assets | 1,136 | - | 1,381 | - | - | - | 6,639 | - | 341 | - | 9,497 |
| 14 | Total | 2,472 | - | 2,136 | 564 | 254 | 4,844 | 26,155 | 443 | 341 | - | 37,209 |

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

(\$ millions)

| Asset classes | | Q2 2021 | | | | | | | | | Total credit exposures amount (post-CCF and post-CRM) | |
|---------------|---|--------------|----------|--------------|------------|------------|--------------|---------------|------------|------------|---|---------------|
| | | Risk Weight | | | | | | | | | | |
| | | 0% | 10% | 20% | 35% | 50% | 75% | 100% | 150% | Others | | |
| | | a | b | c | d | e | f | g | h | i | | j |
| 1 | Sovereigns and their central banks | 11 | - | - | - | - | - | - | - | - | - | 11 |
| 2 | Non-central government public sector entities | - | - | 171 | - | 77 | - | - | - | - | - | 248 |
| 3 | Multilateral development banks | - | - | - | - | - | - | - | - | - | - | - |
| 4 | Banks | - | - | 279 | - | - | - | - | - | - | - | 279 |
| 5 | Securities firms | - | - | 19 | - | - | - | - | - | - | - | 19 |
| 6 | Corporates | 1,088 | - | 247 | - | 197 | - | 16,722 | - | - | - | 18,254 |
| 7 | Regulatory retail portfolios | 478 | - | - | - | - | 4,398 | 352 | - | - | - | 5,228 |
| 8 | Secured by residential property | - | - | - | 605 | - | 125 | - | - | - | - | 730 |
| 9 | Secured by commercial real estate | - | - | - | - | - | - | 345 | - | - | - | 345 |
| 10 | Equity | 443 | - | 15 | - | - | - | 1,233 | - | - | - | 1,691 |
| 11 | Defaulted exposures | 28 | - | - | - | - | - | 61 | 322 | - | - | 411 |
| 12 | Higher-risk categories (4) | - | - | - | - | - | - | - | 208 | - | - | 208 |
| 13 | Other assets | 1,093 | - | 1,356 | - | - | - | 6,776 | - | 330 | - | 9,555 |
| 14 | Total | 3,141 | - | 2,087 | 605 | 274 | 4,523 | 25,489 | 530 | 330 | - | 36,979 |

(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)

| Asset classes | Q1 2021 | | | | | | | | | | Total credit exposures amount (post-CCF and post-CRM) |
|---|-------------|-----|-------|-----|-----|--------|--------|------|--------|---|---|
| | Risk Weight | | | | | | | | | | |
| | 0% | 10% | 20% | 35% | 50% | 75% | 100% | 150% | Others | | |
| a | b | c | d | e | f | g | h | i | j | | |
| 1 Sovereigns and their central banks | 12 | - | - | - | - | - | - | - | - | - | 12 |
| 2 Non-central government public sector entities | - | - | 189 | - | 91 | - | - | - | - | - | 280 |
| 3 Multilateral development banks | - | - | - | - | - | - | - | - | - | - | - |
| 4 Banks | - | - | 262 | - | - | - | - | - | - | - | 262 |
| 5 Securities firms | - | - | 30 | - | - | - | - | - | - | - | 30 |
| 6 Corporates | 1,243 | - | 314 | - | 205 | - | 18,234 | - | - | - | 19,996 |
| 7 Regulatory retail portfolios | 475 | - | - | - | - | 9,878 | 800 | - | - | - | 11,153 |
| 8 Secured by residential property | - | - | - | 679 | - | 153 | - | - | - | - | 832 |
| 9 Secured by commercial real estate | - | - | - | - | - | - | 413 | - | - | - | 413 |
| 10 Equity | 462 | - | 40 | - | - | - | 1,223 | - | - | - | 1,725 |
| 11 Defaulted exposures | 21 | - | - | - | - | - | 119 | 447 | - | - | 587 |
| 12 Higher-risk categories (4) | - | - | - | - | - | - | - | 260 | - | - | 260 |
| 13 Other assets | 984 | - | 1,273 | - | - | - | 6,922 | - | 321 | - | 9,500 |
| 14 Total | 3,197 | - | 2,108 | 679 | 296 | 10,031 | 27,711 | 707 | 321 | - | 45,050 |

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

(\$ millions)

| Asset classes | Q4 2020 | | | | | | | | | | Total credit exposures amount (post-CCF and post-CRM) |
|---|-------------|-----|-------|-----|-----|-------|--------|------|--------|---|---|
| | Risk Weight | | | | | | | | | | |
| | 0% | 10% | 20% | 35% | 50% | 75% | 100% | 150% | Others | | |
| a | b | c | d | e | f | g | h | i | j | | |
| 1 Sovereigns and their central banks | 18 | - | - | - | - | - | - | - | - | - | 18 |
| 2 Non-central government public sector entities | - | - | 181 | - | 116 | - | - | - | - | - | 297 |
| 3 Multilateral development banks | - | - | - | - | - | - | - | - | - | - | - |
| 4 Banks | - | - | 237 | - | - | - | - | - | - | - | 237 |
| 5 Securities firms | - | - | 30 | - | - | - | - | - | - | - | 30 |
| 6 Corporates | 1,524 | - | 327 | - | 236 | - | 19,010 | - | - | - | 21,097 |
| 7 Regulatory retail portfolios | 437 | - | - | - | - | 9,731 | 785 | - | - | - | 10,953 |
| 8 Secured by residential property | - | - | - | 767 | - | 181 | - | - | - | - | 948 |
| 9 Secured by commercial real estate | - | - | - | - | - | - | 464 | - | - | - | 464 |
| 10 Equity | 481 | - | 28 | - | - | - | 1,189 | - | - | - | 1,698 |
| 11 Defaulted exposures | 24 | - | - | - | - | - | 139 | 533 | - | - | 696 |
| 12 Higher-risk categories (4) | - | - | - | - | - | - | - | 321 | - | - | 321 |
| 13 Other assets | 974 | - | 1,483 | - | - | - | 6,423 | - | 317 | - | 9,197 |
| 14 Total | 3,458 | - | 2,286 | 767 | 352 | 9,912 | 28,010 | 854 | 317 | - | 45,956 |

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

(\$ millions)

| Asset classes | Q3 2020 | | | | | | | | | | Total credit exposures amount (post-CCF and post-CRM) |
|---|-------------|-----|-------|-----|-----|-------|--------|-------|--------|---|---|
| | Risk Weight | | | | | | | | | | |
| | 0% | 10% | 20% | 35% | 50% | 75% | 100% | 150% | Others | | |
| a | b | c | d | e | f | g | h | i | j | | |
| 1 Sovereigns and their central banks | 14 | - | - | - | - | - | - | - | - | - | 14 |
| 2 Non-central government public sector entities | - | - | 162 | - | 120 | - | - | - | - | - | 282 |
| 3 Multilateral development banks | - | - | - | - | - | - | - | - | - | - | - |
| 4 Banks | - | - | 235 | - | - | - | - | - | - | - | 235 |
| 5 Securities firms | - | - | 42 | - | - | - | - | - | - | - | 42 |
| 6 Corporates | 1,650 | - | 286 | - | 260 | - | 20,160 | - | - | - | 22,356 |
| 7 Regulatory retail portfolios | 450 | - | - | - | - | 9,196 | 891 | - | - | - | 10,537 |
| 8 Secured by residential property | - | - | - | 810 | - | 196 | - | - | - | - | 1,006 |
| 9 Secured by commercial real estate | - | - | - | - | - | - | 467 | - | - | - | 467 |
| 10 Equity | 483 | - | 13 | - | - | - | 1,160 | - | - | - | 1,656 |
| 11 Defaulted exposures | 26 | - | 7 | - | - | - | 129 | 710 | - | - | 872 |
| 12 Higher-risk categories (4) | - | - | - | - | - | - | - | 313 | - | - | 313 |
| 13 Other assets | 1,030 | - | 1,664 | - | - | - | 6,198 | - | 301 | - | 9,193 |
| 14 Total | 3,653 | - | 2,409 | 810 | 380 | 9,392 | 29,005 | 1,023 | 301 | - | 46,973 |

- (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 EXPOSURES BY PORTFOLIO AND PD RANGE - WHOLESALE (1) (2) (3)
 (\$ millions except as noted)

| Risk Profile | BMO Rating | PD Scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q3 2021 | | | | | | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--|-------------------------------------|-----------------|---------------------------|----------------|------------------------|-----------------|------------------------------|---------|-------------|-------|------------|
| | | | | | | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Average CCF (4) | EAD post-CRM and post-CCF | Average PD (5) | Number of obligors (6) | Average LGD (7) | Average maturity (years) (8) | RWA | RWA density | EL | Provisions |
| | | | | | | a | b | c | d | e | f | g | h | i | j | k | l |
| 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 | 50,902 | 88,410 | 50.84 % | 105,042 | 0.08 % | 5,662 | 34.68 % | 2.01 | 19,815 | 18.86 % | 30 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 57 | 34,211 | 46,200 | 45.41 % | 53,550 | 0.20 % | 6,094 | 35.42 % | 2.10 | 18,011 | 33.63 % | 38 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 58 | 41,514 | 45,245 | 44.89 % | 59,799 | 0.32 % | 9,668 | 35.85 % | 2.19 | 25,808 | 43.16 % | 69 | |
| 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 % | 100 | |
| 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 % | 204 | |
| 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 % | 166 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 62 | 2,223 | 777 | 41.13 % | 2,450 | 14.70 % | 952 | 41.39 % | 1.92 | 4,630 | 188.97 % | 148 | |
| Default | Default | 100.00 (Default) | C | C to D | 63 | 1,663 | 831 | 100.00 % | 2,357 | 100.00 % | 483 | 35.44 % | 2.44 | 5,687 | 241.34 % | 706 | |
| Sub-total | | | | | 64 | 214,440 | 251,226 | | 333,365 | | 44,952 | | | 147,296 | | 1,461 | 2,043 |
| 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 | 190,234 | 7,318 | 60.47 % | 194,745 | 0.02 % | 1,783 | 4.47 % | 2.46 | 5,449 | 2.80 % | 4 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 66 | 295 | 145 | 72.69 % | 378 | 0.20 % | 107 | 19.48 % | 1.92 | 65 | 17.32 % | - | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 67 | 81 | 189 | 38.51 % | 134 | 0.27 % | 77 | 43.87 % | 0.96 | 62 | 46.45 % | - | |
| Investment grade to Non-investment grade | 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 % | - | |
| 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 % | 1 | |
| Non-investment grade to Watchlist | S-3, S-4, P-1, P-2 | 2.50 to <10.00 | Ba3 to Caa1 | BB+ to B- | 70 | 145 | 27 | 45.36 % | 155 | 2.86 % | 64 | 9.35 % | 2.89 | 44 | 28.50 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 71 | 1 | - | - | - | - | 5 | - | - | - | - | - | |
| Default | Default | 100.00 (Default) | C | C to D | 72 | 5 | - | - | 5 | 100.00 % | 3 | 42.38 % | 1.00 | 29 | 580.00 % | - | |
| Sub-total | | | | | 73 | 190,989 | 7,821 | | 195,660 | | 2,216 | | | 5,938 | | 6 | 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 | 10,982 | 4,567 | 72.11 % | 15,382 | 0.07 % | 181 | 17.58 % | 1.05 | 1,086 | 7.06 % | 2 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 75 | 1,961 | 4,357 | 61.83 % | 4,284 | 0.19 % | 76 | 15.41 % | 1.30 | 492 | 11.49 % | 1 | |
| 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 % | 1 | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 77 | 281 | 373 | 61.55 % | 493 | 0.55 % | 33 | 12.00 % | 0.90 | 75 | 15.17 % | 1 | |
| 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 % | 6 | |
| 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 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 80 | - | - | - | - | - | - | - | - | - | - | - | |
| Default | Default | 100.00 (Default) | C | C to D | 81 | - | - | - | - | - | - | - | - | - | - | - | |
| Sub-total | | | | | 82 | 18,836 | 10,969 | | 26,101 | | 424 | | | 3,210 | | 12 | 9 |
| Total (all wholesale portfolios) | | | | | 83 | 424,265 | 270,016 | | 555,126 | | 47,592 | | | 156,444 | | 1,479 | 2,060 |

(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 EXPOSURES BY PORTFOLIO AND PD RANGE - WHOLESALE (1) (2) (3)
 (\$ millions except as noted)

| Risk Profile | BMO Rating | PD Scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q2 2021 | | | | | | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--|-------------------------------------|-----------------|---------------------------|----------------|------------------------|-----------------|------------------------------|---------|-------------|-------|------------|
| | | | | | | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Average CCF (4) | EAD post-CRM and post-CCF | Average PD (5) | Number of obligors (6) | Average LGD (7) | Average maturity (years) (8) | RWA | RWA density | EL | Provisions |
| | | | | | | a | b | c | d | e | f | g | h | i | j | k | l |
| 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 | 46,216 | 85,065 | 50.46 % | 100,284 | 0.08 % | 5,563 | 35.03 % | 1.99 | 18,708 | 18.66 % | 28 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 57 | 31,305 | 44,865 | 46.52 % | 50,364 | 0.20 % | 5,698 | 35.27 % | 1.98 | 16,363 | 32.49 % | 36 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 58 | 38,517 | 42,641 | 44.91 % | 55,605 | 0.32 % | 9,304 | 36.11 % | 2.09 | 23,629 | 42.50 % | 64 | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 59 | 36,869 | 31,420 | 43.70 % | 48,555 | 0.60 % | 7,892 | 34.22 % | 2.11 | 26,194 | 53.95 % | 100 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 60 | 39,299 | 32,216 | 45.76 % | 50,948 | 1.26 % | 11,246 | 34.82 % | 2.25 | 37,240 | 73.09 % | 223 | |
| 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 | 12,443 | 7,934 | 45.68 % | 14,369 | 3.83 % | 3,684 | 30.68 % | 2.02 | 12,818 | 89.21 % | 175 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 62 | 2,174 | 993 | 48.58 % | 2,493 | 14.14 % | 918 | 45.41 % | 1.96 | 5,191 | 208.21 % | 160 | |
| Default | Default | 100.00 (Default) | C | C to D | 63 | 1,921 | 941 | 100.00 % | 2,594 | 100.00 % | 495 | 35.60 % | 2.28 | 6,550 | 252.54 % | 746 | |
| Sub-total | | | | | 64 | 208,744 | 246,075 | | 325,212 | | 44,800 | | | 146,693 | | 1,532 | 2,170 |
| 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 | 198,860 | 7,799 | 61.03 % | 203,715 | 0.02 % | 1,876 | 4.24 % | 2.31 | 5,566 | 2.73 % | 4 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 66 | 220 | 145 | 65.94 % | 284 | 0.20 % | 108 | 19.87 % | 1.80 | 49 | 17.17 % | - | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 67 | 144 | 115 | 43.60 % | 167 | 0.32 % | 85 | 30.66 % | 1.05 | 53 | 31.85 % | - | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 68 | 102 | 93 | 32.41 % | 115 | 0.71 % | 74 | 78.22 % | 3.18 | 158 | 137.62 % | 1 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 69 | 815 | 134 | 39.56 % | 851 | 1.12 % | 125 | 33.30 % | 1.50 | 990 | 116.33 % | 21 | |
| Non-investment grade to Watchlist | S-3, S-4, P-1, P-2 | 2.50 to <10.00 | Ba3 to Caa1 | BB- to B- | 70 | 138 | 32 | 46.36 % | 151 | 2.89 % | 81 | 23.25 % | 1.13 | 91 | 60.71 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 71 | - | - | - | - | - | - | - | - | - | - | - | |
| Default | Default | 100.00 (Default) | C | C to D | 72 | 5 | - | - | 5 | 100.00 % | 3 | 42.46 % | 1.00 | 28 | 562.63 % | - | |
| Sub-total | | | | | 73 | 200,284 | 8,318 | | 205,288 | | 2,352 | | | 6,935 | | 27 | 11 |
| 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 | 12,236 | 4,240 | 71.82 % | 16,483 | 0.07 % | 177 | 17.01 % | 0.99 | 1,057 | 6.41 % | 2 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 75 | 1,933 | 4,295 | 61.31 % | 4,195 | 0.19 % | 73 | 15.89 % | 1.37 | 515 | 12.28 % | 1 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 76 | 858 | 1,334 | 61.57 % | 1,372 | 0.32 % | 72 | 7.16 % | 1.30 | 142 | 10.37 % | - | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 77 | 3,290 | 437 | 61.17 % | 3,382 | 0.54 % | 33 | 13.34 % | 2.24 | 728 | 21.53 % | 3 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 78 | 1,552 | 34 | 89.50 % | 1,400 | 1.50 % | 44 | 14.78 % | 0.38 | 439 | 31.37 % | 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 | 327 | 63 | 61.94 % | 198 | 3.29 % | 22 | 13.04 % | 1.71 | 75 | 37.81 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 80 | - | - | - | - | - | - | - | - | - | - | - | |
| Default | Default | 100.00 (Default) | C | C to D | 81 | - | - | - | - | - | - | - | - | - | - | - | |
| Sub-total | | | | | 82 | 20,196 | 10,403 | | 27,030 | | 421 | | | 2,956 | | 11 | 10 |
| Total (all wholesale portfolios) | | | | | 83 | 429,224 | 264,796 | | 557,530 | | 47,573 | | | 156,584 | | 1,570 | 2,191 |

(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 EXPOSURES BY PORTFOLIO AND PD RANGE - WHOLESALE (1) (2) (3)

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD Scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q1 2021 | | | | | | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--|-------------------------------------|-----------------|---------------------------|----------------|------------------------|-----------------|------------------------------|---------|-------------|-------|------------|
| | | | | | | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Average CCF (4) | EAD post-CRM and post-CCF | Average PD (5) | Number of obligors (6) | Average LGD (7) | Average maturity (years) (8) | RWA | RWA density | EL | Provisions |
| | | | | | | a | b | c | d | e | f | g | h | i | j | k | l |
| 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 | 49,355 | 76,219 | 52.10 % | 100,247 | 0.08 % | 5,558 | 34.50 % | 1.90 | 18,256 | 18.21 % | 28 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 57 | 31,165 | 43,030 | 46.70 % | 49,471 | 0.20 % | 5,335 | 36.14 % | 1.96 | 16,321 | 32.99 % | 36 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 58 | 38,404 | 41,112 | 44.43 % | 54,988 | 0.32 % | 8,976 | 35.80 % | 2.08 | 23,057 | 41.93 % | 63 | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 59 | 36,853 | 34,053 | 45.52 % | 50,041 | 0.60 % | 8,003 | 34.79 % | 2.18 | 27,965 | 55.88 % | 105 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 60 | 43,552 | 32,856 | 43.82 % | 54,852 | 1.26 % | 11,287 | 34.17 % | 2.29 | 39,732 | 72.44 % | 237 | |
| Non-investment grade to Watchlist | S-3, S-4, P-1, P-2 | 2.50 to <10.00 | Ba3 to Caa1 | BB- to B- | 61 | 13,525 | 8,699 | 47.21 % | 15,829 | 3.79 % | 3,767 | 31.19 % | 2.05 | 14,417 | 91.08 % | 192 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 62 | 2,065 | 1,095 | 42.84 % | 2,379 | 14.27 % | 955 | 46.42 % | 2.06 | 5,074 | 213.31 % | 157 | |
| Default | Default | 100.00 (Default) | C | C to D | 63 | 2,278 | 1,229 | 100.00 % | 3,166 | 100.00 % | 529 | 36.76 % | 2.16 | 8,229 | 259.97 % | 828 | |
| Sub-total | | | | | 64 | 217,197 | 238,293 | | 330,973 | | 44,410 | | | 153,051 | | 1,646 | 2,477 |
| 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 | 184,822 | 7,799 | 63.16 % | 189,846 | 0.02 % | 1,888 | 4.81 % | 2.57 | 6,052 | 3.19 % | 4 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 66 | 92 | 199 | 64.42 % | 193 | 0.21 % | 100 | 30.08 % | 1.41 | 50 | 26.01 % | - | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 67 | 258 | 128 | 42.15 % | 286 | 0.32 % | 92 | 20.33 % | 1.32 | 60 | 21.09 % | - | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 68 | 125 | 117 | 31.24 % | 145 | 0.69 % | 79 | 60.83 % | 2.32 | 148 | 102.10 % | 1 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 69 | 922 | 120 | 40.31 % | 945 | 1.67 % | 111 | 27.62 % | 2.73 | 671 | 71.01 % | 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- | 70 | 128 | 22 | 50.85 % | 137 | 2.91 % | 64 | 24.54 % | 1.16 | 88 | 64.66 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 71 | 1 | 2 | 31.71 % | 1 | 13.95 % | 6 | 15.00 % | 1.00 | 1 | 70.67 % | - | |
| Default | Default | 100.00 (Default) | C | C to D | 72 | 4 | - | - | 4 | 100.00 % | 1 | 51.34 % | 1.00 | 24 | 680.23 % | - | |
| Sub-total | | | | | 73 | 186,352 | 8,387 | | 191,557 | | 2,341 | | | 7,094 | | 10 | 13 |
| 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 | 12,379 | 3,583 | 72.29 % | 16,198 | 0.07 % | 181 | 16.45 % | 1.01 | 983 | 6.07 % | 2 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 75 | 1,955 | 5,116 | 61.06 % | 4,660 | 0.19 % | 80 | 13.86 % | 1.40 | 498 | 10.69 % | 1 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 76 | 1,096 | 1,280 | 61.68 % | 1,586 | 0.32 % | 74 | 10.73 % | 1.17 | 176 | 11.11 % | 1 | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 77 | 3,008 | 848 | 60.97 % | 3,398 | 0.54 % | 40 | 12.44 % | 2.26 | 683 | 20.09 % | 2 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 78 | 1,705 | 8 | 84.15 % | 1,505 | 1.02 % | 37 | 14.79 % | 0.39 | 393 | 26.10 % | 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 | 309 | 132 | 71.78 % | 227 | 2.98 % | 20 | 13.14 % | 1.48 | 80 | 35.34 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 80 | - | - | - | - | - | - | - | - | - | - | - | |
| Default | Default | 100.00 (Default) | C | C to D | 81 | - | - | - | - | - | - | - | - | - | - | - | |
| Sub-total | | | | | 82 | 20,452 | 10,967 | | 27,574 | | 432 | | | 2,813 | | 9 | 8 |
| Total (all wholesale portfolios) | | | | | 83 | 424,001 | 257,647 | | 550,104 | | 47,183 | | | 162,958 | | 1,665 | 2,498 |

(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 EXPOSURES BY PORTFOLIO AND PD RANGE - WHOLESALE (1) (2) (3)

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD Scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q4 2020 | | | | | | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--|-------------------------------------|-----------------|---------------------------|----------------|------------------------|-----------------|------------------------------|---------|-------------|-------|------------|
| | | | | | | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Average CCF (d) | EAD post-CRM and post-CCF | Average PD (5) | Number of obligors (6) | Average LGD (7) | Average maturity (years) (8) | RWA | RWA density | EL | Provisions |
| | | | | | | a | b | c | d | e | f | g | h | i | j | k | l |
| 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 | 44,787 | 82,237 | 50.53 % | 98,577 | 0.08 % | 5,730 | 33.45 % | 2.03 | 18,348 | 18.61 % | 27 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 57 | 28,253 | 42,426 | 47.17 % | 46,304 | 0.20 % | 5,197 | 36.35 % | 2.08 | 15,618 | 33.73 % | 34 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 58 | 38,043 | 42,675 | 44.87 % | 55,322 | 0.32 % | 8,803 | 36.09 % | 2.10 | 23,611 | 42.68 % | 64 | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 59 | 38,516 | 34,609 | 45.47 % | 51,735 | 0.60 % | 8,047 | 35.75 % | 2.19 | 29,647 | 57.31 % | 111 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 60 | 45,638 | 34,597 | 44.38 % | 57,711 | 1.27 % | 11,409 | 35.46 % | 2.30 | 43,461 | 75.31 % | 260 | |
| 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 | 14,132 | 9,769 | 48.51 % | 16,723 | 3.85 % | 3,778 | 32.10 % | 2.21 | 18,007 | 95.71 % | 211 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 62 | 2,573 | 1,293 | 45.69 % | 2,994 | 14.41 % | 971 | 45.87 % | 2.15 | 6,388 | 213.33 % | 196 | |
| Default | Default | 100.00 (Default) | C | C to D | 63 | 2,409 | 1,305 | 100.00 % | 3,422 | 100.00 % | 525 | 37.53 % | 2.16 | 9,455 | 276.26 % | 830 | |
| Sub-total | | | | | 64 | 214,351 | 248,911 | | 332,788 | | 44,460 | | | 162,535 | | 1,733 | 2,440 |
| 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 | 171,857 | 7,400 | 63.48 % | 176,638 | 0.02 % | 1,864 | 4.93 % | 2.67 | 5,651 | 3.20 % | 5 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 66 | 175 | 208 | 64.19 % | 295 | 0.20 % | 99 | 22.18 % | 1.93 | 56 | 19.15 % | - | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 67 | 93 | 153 | 42.84 % | 129 | 0.46 % | 102 | 44.60 % | 2.61 | 51 | 39.39 % | - | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 68 | 202 | 132 | 37.39 % | 241 | 0.61 % | 62 | 25.29 % | 2.55 | 110 | 45.55 % | - | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 69 | 814 | 92 | 45.90 % | 831 | 0.95 % | 94 | 26.27 % | 1.87 | 439 | 52.85 % | 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- | 70 | 147 | 34 | 43.45 % | 159 | 3.41 % | 54 | 23.13 % | 1.05 | 101 | 63.21 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 71 | 2 | 2 | 33.22 % | 1 | 13.95 % | 5 | 15.00 % | 1.00 | 1 | 70.67 % | - | |
| Default | Default | 100.00 (Default) | C | C to D | 72 | 4 | - | - | 4 | 100.00 % | 3 | 51.34 % | 1.00 | 24 | 680.23 % | - | |
| Sub-total | | | | | 73 | 173,294 | 8,021 | | 178,298 | | 2,283 | | | 6,433 | | 8 | 14 |
| Bank | | | | | | | | | | | | | | | | | |
| Investment grade | I-1, I-2, I-3, I-4, I-5 | 0.00 to <0.15 | Aaa to Baa1 | AAA to BBB+ | 74 | 11,409 | 3,939 | 71.10 % | 15,719 | 0.07 % | 171 | 15.53 % | 1.04 | 960 | 6.11 % | 2 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 75 | 2,987 | 5,449 | 60.12 % | 5,833 | 0.19 % | 97 | 16.88 % | 1.24 | 702 | 12.03 % | 2 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 76 | 1,065 | 1,402 | 60.62 % | 1,590 | 0.32 % | 74 | 12.31 % | 1.47 | 226 | 14.20 % | 1 | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 77 | 2,774 | 793 | 61.56 % | 3,078 | 0.55 % | 43 | 13.25 % | 2.30 | 679 | 22.05 % | 2 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 78 | 2,043 | 17 | 64.34 % | 1,760 | 1.04 % | 39 | 15.00 % | 0.44 | 473 | 26.90 % | 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 | 478 | 107 | 73.87 % | 280 | 2.97 % | 24 | 14.29 % | 0.69 | 102 | 36.62 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 80 | - | - | - | - | - | - | - | - | - | - | - | |
| Default | Default | 100.00 (Default) | C | C to D | 81 | - | - | - | - | - | - | - | - | - | - | - | |
| Sub-total | | | | | 82 | 20,756 | 11,707 | | 28,260 | | 448 | | | 3,142 | | 11 | 10 |
| Total (all wholesale portfolios) | | | | | 83 | 408,401 | 268,639 | | 539,346 | | 47,191 | | | 172,110 | | 1,752 | 2,464 |

(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 EXPOSURES BY PORTFOLIO AND PD RANGE - RETAIL (1) (2) (3)
(\$ millions except as noted)

| Risk Profile | BMO Rating | PD Scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q3 2020 | | | | | | | | | | | |
|---|------------|------------------|--|--------------------------------------|--------|--|-------------------------------------|-----------------|---------------------------|----------------|------------------------|-----------------|--------------------------|--------|-------------|-----|------------|
| | | | | | | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Average CCF (4) | EAD post-CRM and post-CCF | Average PD (5) | Number of obligors (6) | Average LGD (7) | Average maturity (years) | RWA | RWA density | EL | Provisions |
| | | | | | | a | b | c | d | e | f | g | h | i | j | k | l |
| Canadian insured residential | | | | | | | | | | | | | | | | | |
| Exceptionally low to Very low | | 0.00 to <0.15 | | | 1 | 30,685 | - | - | 44,662 | 0.00 % | 136,451 | 26.16 % | | 394 | 0.83 % | - | |
| Very low to Low | | 0.15 to <0.25 | | | 2 | - | - | - | - | - | - | - | | - | - | - | |
| Low | | 0.25 to <0.50 | | | 3 | - | - | - | - | - | - | - | | - | - | - | |
| Low | | 0.50 to <0.75 | | | 4 | 8,832 | - | - | - | - | 17,628 | - | | - | - | - | |
| Medium | | 0.75 to <2.50 | | | 5 | 2,635 | - | - | - | - | 7,069 | - | | - | - | - | |
| Medium to High | | 2.50 to <10.00 | | | 6 | 2,272 | - | - | - | - | 6,768 | - | | - | - | - | |
| High | | 10.00 to <100.00 | | | 7 | 88 | - | - | - | - | 435 | - | | - | - | - | |
| Default | | 100.00 (Default) | | | 8 | 151 | - | - | - | - | 685 | - | | - | - | - | |
| Sub-total | | | | | 9 | 44,663 | - | - | 44,662 | - | 169,036 | - | | 394 | - | - | 8 |
| Canadian uninsured residential | | | | | | | | | | | | | | | | | |
| Exceptionally low to Very low | | 0.00 to <0.15 | | | 10 | 52,461 | 28,962 | 41.70 % | 64,538 | 0.09 % | 410,753 | 15.73 % | | 2,243 | 3.48 % | 9 | |
| Very low to Low | | 0.15 to <0.25 | | | 11 | 7,719 | 1,371 | 25.79 % | 8,073 | 0.22 % | 48,093 | 18.03 % | | 658 | 8.15 % | 3 | |
| Low | | 0.25 to <0.50 | | | 12 | 1 | - | - | 1 | 0.47 % | - | 14.02 % | | - | 11.24 % | - | |
| Low | | 0.50 to <0.75 | | | 13 | 14,024 | 19 | 72.10 % | 14,038 | 0.65 % | 44,552 | 13.81 % | | 1,948 | 13.88 % | 13 | |
| Medium | | 0.75 to <2.50 | | | 14 | 7,540 | 440 | 23.73 % | 7,644 | 1.20 % | 32,734 | 16.98 % | | 1,901 | 24.87 % | 15 | |
| Medium to High | | 2.50 to <10.00 | | | 15 | 5,250 | 92 | 31.70 % | 5,279 | 6.75 % | 15,937 | 13.46 % | | 2,848 | 53.95 % | 47 | |
| High | | 10.00 to <100.00 | | | 16 | 239 | 19 | 22.93 % | 243 | 44.13 % | 1,614 | 12.03 % | | 150 | 61.81 % | 12 | |
| Default | | 100.00 (Default) | | | 17 | 206 | 10 | 20.90 % | 208 | 100.00 % | 1,324 | 13.05 % | | 304 | 145.63 % | 16 | |
| Sub-total | | | | | 18 | 87,440 | 30,913 | | 100,024 | | 555,007 | | | 10,052 | | 115 | 98 |
| Non-Canadian residential | | | | | | | | | | | | | | | | | |
| Exceptionally low to Very low | | 0.00 to <0.15 | | | 19 | 1,437 | 6,053 | 58.98 % | 5,007 | 0.04 % | 45,184 | 68.22 % | | 445 | 8.89 % | 1 | |
| Very low to Low | | 0.15 to <0.25 | | | 20 | 6,182 | 28 | 100.00 % | 6,210 | 0.19 % | 15,211 | 22.87 % | | 574 | 9.25 % | 3 | |
| Low | | 0.25 to <0.50 | | | 21 | 512 | 201 | 50.28 % | 613 | 0.37 % | 5,660 | 71.43 % | | 294 | 48.03 % | 2 | |
| Low | | 0.50 to <0.75 | | | 22 | 350 | - | - | 350 | 0.74 % | 5,980 | 60.27 % | | 229 | 65.37 % | 2 | |
| Medium | | 0.75 to <2.50 | | | 23 | 1,827 | 50 | 58.95 % | 1,857 | 1.12 % | 9,461 | 39.15 % | | 1,052 | 56.64 % | 8 | |
| Medium to High | | 2.50 to <10.00 | | | 24 | 286 | 1 | 32.10 % | 286 | 4.55 % | 3,643 | 58.71 % | | 550 | 192.39 % | 8 | |
| High | | 10.00 to <100.00 | | | 25 | 206 | 73 | 62.41 % | 252 | 21.96 % | 2,008 | 37.06 % | | 511 | 203.03 % | 22 | |
| Default | | 100.00 (Default) | | | 26 | 308 | - | - | 308 | 100.00 % | 14,681 | 47.26 % | | 1,007 | 326.64 % | 99 | |
| Sub-total | | | | | 27 | 11,108 | 6,406 | | 14,863 | | 101,828 | | | 4,662 | | 145 | 189 |
| Qualifying revolving retail | | | | | | | | | | | | | | | | | |
| Exceptionally low to Very low | | 0.00 to <0.15 | | | 28 | 729 | 39,155 | 56.94 % | 23,023 | 0.05 % | 2,979,089 | 71.66 % | | 491 | 2.13 % | 7 | |
| Very low to Low | | 0.15 to <0.25 | | | 29 | 128 | 2,452 | 69.50 % | 1,833 | 0.18 % | 336,536 | 90.77 % | | 169 | 9.24 % | 3 | |
| Low | | 0.25 to <0.50 | | | 30 | 39 | 403 | 75.73 % | 344 | 0.32 % | 81,246 | 91.02 % | | 52 | 15.11 % | 1 | |
| Low | | 0.50 to <0.75 | | | 31 | 3,394 | 10,872 | 39.10 % | 7,645 | 0.56 % | 626,006 | 59.70 % | | 1,180 | 15.43 % | 26 | |
| Medium | | 0.75 to <2.50 | | | 32 | 479 | 674 | 84.80 % | 1,050 | 1.30 % | 167,853 | 80.60 % | | 566 | 53.89 % | 15 | |
| Medium to High | | 2.50 to <10.00 | | | 33 | 2,334 | 1,324 | 65.91 % | 3,207 | 3.50 % | 414,512 | 77.89 % | | 2,472 | 77.05 % | 88 | |
| High | | 10.00 to <100.00 | | | 34 | 639 | 238 | 63.11 % | 790 | 20.05 % | 98,787 | 72.57 % | | 1,326 | 167.96 % | 110 | |
| Default | | 100.00 (Default) | | | 35 | 76 | 26 | 45.63 % | 88 | 100.00 % | 5,161 | 56.80 % | | 283 | 321.40 % | 40 | |
| Sub-total | | | | | 36 | 7,818 | 55,144 | | 37,980 | | 4,709,190 | | | 6,539 | | 290 | 438 |
| Retail small-and-medium-sized entities | | | | | | | | | | | | | | | | | |
| Exceptionally low to Very low | | 0.00 to <0.15 | | | 37 | 1,551 | 3,278 | 74.22 % | 4,825 | 0.07 % | 86,030 | 54.83 % | | 618 | 12.82 % | 2 | |
| Very low to Low | | 0.15 to <0.25 | | | 38 | 85 | 255 | 70.88 % | 266 | 0.24 % | 15,972 | 85.83 % | | 112 | 42.09 % | 1 | |
| Low | | 0.25 to <0.50 | | | 39 | 2 | 6 | 86.34 % | 7 | 0.28 % | 2,554 | 98.54 % | | 4 | 52.74 % | - | |
| Low | | 0.50 to <0.75 | | | 40 | 1,035 | 480 | 80.74 % | 1,423 | 0.57 % | 11,695 | 62.27 % | | 726 | 51.06 % | 5 | |
| Medium | | 0.75 to <2.50 | | | 41 | 624 | 468 | 52.98 % | 872 | 1.41 % | 27,649 | 65.82 % | | 700 | 80.26 % | 8 | |
| Medium to High | | 2.50 to <10.00 | | | 42 | 1,662 | 199 | 47.89 % | 917 | 5.07 % | 27,925 | 73.53 % | | 1,062 | 115.82 % | 35 | |
| High | | 10.00 to <100.00 | | | 43 | 95 | 20 | 73.35 % | 110 | 26.84 % | 2,554 | 67.58 % | | 169 | 154.47 % | 21 | |
| Default | | 100.00 (Default) | | | 44 | 78 | 8 | 95.16 % | 86 | 100.00 % | 6,411 | 64.29 % | | 732 | 851.82 % | - | |
| Sub-total | | | | | 45 | 5,132 | 4,714 | | 8,506 | | 180,790 | | | 4,123 | | 72 | 82 |
| Other retail | | | | | | | | | | | | | | | | | |
| Exceptionally low to Very low | | 0.00 to <0.15 | | | 46 | 10,170 | 3,221 | 48.93 % | 12,020 | 0.08 % | 173,899 | 19.42 % | | 457 | 3.80 % | 2 | |
| Very low to Low | | 0.15 to <0.25 | | | 47 | 5,737 | 1,042 | 74.81 % | 6,517 | 0.20 % | 266,674 | 71.14 % | | 1,947 | 29.88 % | 9 | |
| Low | | 0.25 to <0.50 | | | 48 | 4,508 | 934 | 26.01 % | 4,751 | 0.35 % | 729,032 | 41.76 % | | 1,246 | 26.23 % | 7 | |
| Low | | 0.50 to <0.75 | | | 49 | 3,804 | 967 | 33.41 % | 3,964 | 0.60 % | 17,540 | 33.82 % | | 1,107 | 27.92 % | 8 | |
| Medium | | 0.75 to <2.50 | | | 50 | 7,913 | 560 | 47.38 % | 8,121 | 1.36 % | 517,740 | 43.91 % | | 4,237 | 52.17 % | 51 | |
| Medium to High | | 2.50 to <10.00 | | | 51 | 2,070 | 37 | 40.90 % | 2,040 | 5.02 % | 146,362 | 39.50 % | | 1,236 | 60.59 % | 36 | |
| High | | 10.00 to <100.00 | | | 52 | 940 | 209 | 34.06 % | 1,010 | 20.17 % | 222,206 | 64.39 % | | 1,359 | 134.57 % | 127 | |
| Default | | 100.00 (Default) | | | 53 | 180 | 3 | 49.38 % | 175 | 100.00 % | 72,755 | 42.11 % | | 374 | 214.53 % | 70 | |
| Sub-total | | | | | 54 | 35,322 | 6,973 | | 38,598 | | 2,146,208 | | | 11,963 | | 310 | 297 |
| Total (all retail portfolios) | | | | | 55 | 191,483 | 104,150 | | 244,653 | | 7,862,059 | | | 37,733 | | 932 | 1,112 |

(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 EXPOSURES BY PORTFOLIO AND PD RANGE - WHOLESALE (1) (2) (3)

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD Scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q3 2020 | | | | | | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--|-------------------------------------|-----------------|---------------------------|----------------|------------------------|-----------------|------------------------------|---------|-------------|-------|------------|
| | | | | | | Original on-balance sheet gross exposure | Off-balance sheet exposures pre-CCF | Average CCF (4) | EAD post-CRM and post-CCF | Average PD (5) | Number of obligors (6) | Average LGD (7) | Average maturity (years) (8) | RWA | RWA density | EL | Provisions |
| | | | | | | a | b | c | d | e | f | g | h | i | j | k | l |
| 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 | 43,236 | 85,525 | 49.75 % | 97,902 | 0.08 % | 5,920 | 32.86 % | 2.14 | 18,256 | 18.65 % | 26 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 57 | 26,959 | 40,110 | 47.56 % | 44,355 | 0.20 % | 4,983 | 36.27 % | 2.24 | 15,456 | 34.85 % | 32 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 58 | 38,994 | 37,549 | 46.26 % | 54,258 | 0.32 % | 8,647 | 36.52 % | 2.22 | 24,119 | 44.45 % | 64 | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 59 | 39,886 | 34,086 | 44.74 % | 52,739 | 0.60 % | 8,340 | 35.89 % | 2.31 | 30,995 | 58.77 % | 114 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 60 | 49,335 | 33,201 | 43.94 % | 60,677 | 1.25 % | 11,529 | 35.23 % | 2.40 | 45,853 | 75.57 % | 268 | |
| 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 | 14,278 | 8,265 | 48.43 % | 16,031 | 3.71 % | 4,154 | 32.30 % | 2.34 | 15,426 | 96.23 % | 194 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 62 | 2,115 | 1,066 | 40.58 % | 2,441 | 14.03 % | 897 | 48.98 % | 2.01 | 5,490 | 224.88 % | 168 | |
| Default | Default | 100.00 (Default) | C | C to D | 63 | 2,859 | 1,124 | 100.00 % | 3,850 | 100.00 % | 450 | 34.84 % | 2.17 | 9,645 | 264.22 % | 773 | |
| Sub-total | | | | | 64 | 217,662 | 240,926 | | 332,053 | | 44,920 | | | 165,240 | | 1,639 | 2,299 |
| 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 | 191,200 | 7,899 | 63.21 % | 196,293 | 0.02 % | 1,848 | 4.23 % | 2.44 | 5,246 | 2.67 % | 4 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 66 | 155 | 206 | 67.67 % | 270 | 0.20 % | 99 | 21.52 % | 1.73 | 49 | 18.10 % | - | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 67 | 64 | 87 | 40.96 % | 73 | 0.32 % | 121 | 31.33 % | 0.68 | 93 | 127.47 % | - | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 68 | 323 | 137 | 37.32 % | 364 | 0.58 % | 59 | 17.64 % | 2.62 | 119 | 32.64 % | - | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 69 | 113 | 72 | 48.06 % | 113 | 1.57 % | 102 | 43.90 % | 2.24 | 112 | 98.46 % | 1 | |
| Non-investment grade to Watchlist | S-3, S-4, P-1, P-2 | 2.50 to <10.00 | Ba3 to Caa1 | BB- to B- | 70 | 811 | 37 | 42.85 % | 824 | 2.88 % | 61 | 25.23 % | 3.22 | 670 | 81.25 % | 7 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 71 | 6 | 3 | 35.22 % | 6 | 17.95 % | 6 | 38.48 % | 1.00 | 11 | 199.51 % | - | |
| Default | Default | 100.00 (Default) | C | C to D | 72 | - | - | - | - | - | 1 | - | - | - | - | - | |
| Sub-total | | | | | 73 | 192,672 | 8,441 | | 197,943 | | 2,297 | | | 6,300 | | 12 | 14 |
| 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 | 12,407 | 3,268 | 73.39 % | 16,381 | 0.06 % | 176 | 17.04 % | 1.00 | 1,025 | 6.26 % | 2 | |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 75 | 2,032 | 5,695 | 60.98 % | 4,982 | 0.19 % | 86 | 13.80 % | 0.96 | 505 | 10.14 % | 1 | |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 76 | 781 | 1,345 | 61.48 % | 1,332 | 0.32 % | 68 | 9.54 % | 0.88 | 113 | 8.47 % | - | |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 77 | 4,229 | 839 | 62.01 % | 4,578 | 0.54 % | 46 | 9.36 % | 2.42 | 720 | 15.72 % | 2 | |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 78 | 2,028 | 51 | 73.10 % | 1,621 | 1.03 % | 40 | 14.98 % | 0.45 | 432 | 26.68 % | 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 | 345 | 127 | 77.09 % | 282 | 2.76 % | 22 | 13.80 % | 0.75 | 95 | 33.76 % | 1 | |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 80 | - | - | - | - | - | - | - | - | - | - | - | |
| Default | Default | 100.00 (Default) | C | C to D | 81 | - | - | - | - | - | - | - | - | - | - | - | |
| Sub-total | | | | | 82 | 21,822 | 11,325 | | 29,176 | | 438 | | | 2,890 | | 9 | 13 |
| Total (all wholesale portfolios) | | | | | 83 | 432,156 | 260,692 | | 559,172 | | 47,655 | | | 174,430 | | 1,660 | 2,326 |

(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.

CR8 - RWA FLOW STATEMENTS OF CREDIT RISK AND COUNTERPARTY CREDIT RISK EXPOSURES (1)

| (\$ millions) | Q3 2021 | | | Q2 2021 | | |
|---|-----------------------|--------------|------------------------------|-----------------------|--------------|------------------------------|
| | Credit risk, of which | | Counterparty credit risk (2) | Credit risk, of which | | Counterparty credit risk (2) |
| | AIRB | Standardized | | AIRB | Standardized | |
| a | b | c | d | e | f | |
| 1 RWA as at beginning of reporting period | 200,165 | 34,637 | 20,748 | 202,093 | 41,198 | 21,602 |
| 2 Asset size (3) | 4,238 | 597 | (563) | 3,179 | (556) | (329) |
| 3 Asset quality (4) | (5,642) | (11) | (233) | (5,110) | 1 | (552) |
| 4 Model updates (5) | 40 | - | - | - | - | - |
| 5 Methodology and policy (6) | - | - | - | 4,332 | (4,040) | 62 |
| 6 Acquisitions and disposals | - | - | - | - | (874) | - |
| 7 Foreign exchange movements | 1,657 | 331 | (87) | (4,329) | (1,092) | (35) |
| 8 Other | - | - | - | - | - | - |
| 9 RWA as at end of reporting period | 200,458 | 35,554 | 19,865 | 200,165 | 34,637 | 20,748 |

CR8 - RWA FLOW STATEMENTS OF CREDIT RISK AND COUNTERPARTY CREDIT RISK EXPOSURES (1)

| (\$ millions) | Q1 2021 | | | Q4 2020 | | |
|---|-----------------------|--------------|------------------------------|-----------------------|--------------|------------------------------|
| | Credit risk, of which | | Counterparty credit risk (2) | Credit risk, of which | | Counterparty credit risk (2) |
| | AIRB | Standardized | | AIRB | Standardized | |
| a | b | c | d | e | f | |
| 1 RWA as at beginning of reporting period | 210,604 | 41,664 | 19,842 | 212,163 | 42,386 | 18,361 |
| 2 Asset size (3) | 3,263 | 619 | 1,768 | (864) | (581) | 835 |
| 3 Asset quality (4) | (6,034) | (7) | (67) | (755) | 8 | 17 |
| 4 Model updates (5) | (1,255) | - | - | 674 | - | - |
| 5 Methodology and policy (6) | (171) | - | - | - | - | 723 |
| 6 Acquisitions and disposals | - | - | - | - | - | - |
| 7 Foreign exchange movements | (4,314) | (1,078) | 59 | (614) | (149) | (94) |
| 8 Other | - | - | - | - | - | - |
| 9 RWA as at end of reporting period | 202,093 | 41,198 | 21,602 | 210,604 | 41,664 | 19,842 |

CR8 - RWA FLOW STATEMENTS OF CREDIT RISK AND COUNTERPARTY CREDIT RISK EXPOSURES (1)

| (\$ millions) | Q3 2020 | | |
|---|-----------------------|--------------|------------------------------|
| | Credit risk, of which | | Counterparty credit risk (2) |
| | AIRB | Standardized | |
| a | b | c | |
| 1 RWA as at beginning of reporting period | 219,181 | 44,572 | 20,210 |
| 2 Asset size (3) | (4,625) | (1,094) | (1,802) |
| 3 Asset quality (4) | 3,759 | 121 | 151 |
| 4 Model updates (5) | (1,479) | - | - |
| 5 Methodology and policy (6) | - | - | - |
| 6 Acquisitions and disposals | - | - | - |
| 7 Foreign exchange movements | (4,673) | (1,213) | (198) |
| 8 Other | - | - | - |
| 9 RWA as at end of reporting period | 212,163 | 42,386 | 18,361 |

(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).

(4) Asset quality captures the quality of book changes caused by experience such as underlying customer behaviour or demographics, including changes through model calibrations/realignments.

(5) Model updates include model implementation, change in model scope or any change to address model malfunctions.

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

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1) (2)

| (\$ millions) | LINE # | Q3 2021 | | | | Q2 2021 | | | |
|--|-----------|---------------------------|--|---------------------------|--|---------------------------|--|---------------------------|--|
| | | Standardized | | AIRB | | Standardized | | AIRB | |
| | | 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 | 18,932 | 1,299 | 333,365 | 11,955 | 19,105 | 1,902 | 325,212 | 14,138 |
| Sovereign | 2 | 255 | - | 195,660 | 144 | 259 | - | 205,288 | 149 |
| Bank | 3 | 300 | - | 26,101 | 1,209 | 298 | - | 27,030 | 1,369 |
| Total Wholesale | 4 | 19,487 | 1,299 | 555,126 | 13,308 | 19,662 | 1,902 | 557,530 | 15,656 |
| Residential mortgages excluding home equity line of credits (HELOCs) | 5 | 692 | - | 117,269 | 40,544 | 742 | - | 114,075 | 41,750 |
| HELOCs | 6 | 83 | - | 55,502 | - | 89 | - | 52,915 | - |
| Other retail | 7 | 4,005 | 460 | 44,591 | 1,326 | 3,738 | 478 | 42,520 | 1,280 |
| Qualifying revolving retail | 8 | - | - | 40,039 | - | - | - | 39,534 | - |
| Retail SMEs | 9 | 1,599 | - | 14,589 | 1,272 | 1,502 | - | 14,441 | 1,339 |
| Total Retail | 10 | 6,379 | 460 | 271,990 | 43,142 | 6,071 | 478 | 263,485 | 44,369 |
| Other assets | 11 | 9,497 | - | - | - | 9,555 | - | - | - |
| Equity | 12 | 1,846 | - | - | - | 1,691 | - | - | - |
| Total Bank | 13 | 37,209 | 1,759 | 827,116 | 56,450 | 36,979 | 2,380 | 821,015 | 60,025 |

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1) (2)

| (\$ millions) | LINE # | Q1 2021 | | | | Q4 2020 | | | |
|--|-----------|---------------------------|--|---------------------------|--|---------------------------|--|---------------------------|--|
| | | Standardized | | AIRB | | Standardized | | AIRB | |
| | | 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 | 21,046 | 1,558 | 330,973 | 13,957 | 22,312 | 1,850 | 332,788 | 14,795 |
| Sovereign | 2 | 291 | - | 191,557 | 159 | 315 | - | 178,298 | 151 |
| Bank | 3 | 291 | - | 27,574 | 1,577 | 267 | - | 28,260 | 1,828 |
| Total Wholesale | 4 | 21,628 | 1,558 | 550,104 | 15,693 | 22,894 | 1,850 | 539,346 | 16,774 |
| Residential mortgages excluding home equity line of credits (HELOCs) | 5 | 810 | - | 112,647 | 42,413 | 914 | - | 111,326 | 42,749 |
| HELOCs | 6 | 122 | - | 51,115 | - | 147 | - | 50,234 | - |
| Other retail | 7 | 4,242 | 470 | 40,653 | 1,329 | 4,178 | 437 | 39,654 | 1,419 |
| Qualifying revolving retail | 8 | - | - | 39,286 | - | - | - | 37,098 | - |
| Retail SMEs | 9 | 7,023 | 5 | 8,535 | 1,044 | 6,929 | - | 8,811 | 1,048 |
| Total Retail | 10 | 12,197 | 475 | 252,236 | 44,786 | 12,168 | 437 | 247,123 | 45,216 |
| Other assets | 11 | 9,500 | - | - | - | 9,197 | - | - | - |
| Equity | 12 | 1,725 | - | - | - | 1,697 | - | - | - |
| Total Bank | 13 | 45,050 | 2,033 | 802,340 | 60,479 | 45,956 | 2,287 | 786,469 | 61,990 |

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1) (2)

| (\$ millions) | LINE # | Q3 2020 | | | |
|--|-----------|---------------------------|--|---------------------------|--|
| | | Standardized | | AIRB | |
| | | 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 | 23,700 | 1,953 | 332,053 | 14,628 |
| Sovereign | 2 | 295 | - | 197,943 | 163 |
| Bank | 3 | 277 | - | 29,176 | 2,495 |
| Total Wholesale | 4 | 24,272 | 1,953 | 559,172 | 17,286 |
| Residential mortgages excluding home equity line of credits (HELOCs) | 5 | 1,018 | - | 110,066 | 43,677 |
| HELOCs | 6 | 134 | - | 49,503 | - |
| Other retail | 7 | 4,139 | 450 | 38,598 | 1,492 |
| Qualifying revolving retail | 8 | - | - | 37,980 | - |
| Retail SMEs | 9 | 6,561 | - | 8,506 | 840 |
| Total Retail | 10 | 11,852 | 450 | 244,653 | 46,009 |
| Other assets | 11 | 9,193 | - | - | - |
| Equity | 12 | 1,656 | - | - | - |
| Total Bank | 13 | 46,973 | 2,403 | 803,825 | 63,295 |

(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.

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)

| (\$ millions) | LINE # | Q3 2021 | | | | Q2 2021 | | | |
|--|-----------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|
| | | Canada | U.S. | Other | Total | Canada | U.S. | Other | Total |
| Corporate (incl specialized lending and SMEs treated as corporate) | 1 | 150,218 | 190,947 | 11,132 | 352,297 | 149,011 | 183,788 | 11,518 | 344,317 |
| Sovereign | 2 | 63,606 | 118,095 | 14,214 | 195,915 | 80,732 | 111,274 | 13,541 | 205,547 |
| Bank | 3 | 3,486 | 6,333 | 16,582 | 26,401 | 3,316 | 7,288 | 16,724 | 27,328 |
| Total Wholesale | 4 | 217,310 | 315,375 | 41,928 | 574,613 | 233,059 | 302,350 | 41,783 | 577,192 |
| Residential mortgages excluding home equity line of credits (HELOCs) | 5 | 110,192 | 7,769 | - | 117,961 | 107,247 | 7,570 | - | 114,817 |
| HELOCs | 6 | 49,733 | 5,852 | - | 55,585 | 47,274 | 5,730 | - | 53,004 |
| Other retail | 7 | 36,540 | 12,056 | - | 48,596 | 34,867 | 11,391 | - | 46,258 |
| Qualifying revolving retail | 8 | 40,039 | - | - | 40,039 | 39,533 | - | 1 | 39,534 |
| Retail SMEs | 9 | 8,407 | 7,773 | 8 | 16,188 | 8,077 | 7,863 | 3 | 15,943 |
| Total Retail | 10 | 244,911 | 33,450 | 8 | 278,369 | 236,998 | 32,554 | 4 | 269,556 |
| Other assets | 11 | 6,203 | 2,833 | 461 | 9,497 | 6,158 | 2,812 | 585 | 9,555 |
| Equity | 12 | 146 | 1,444 | 256 | 1,846 | 125 | 1,315 | 251 | 1,691 |
| Total Bank | 13 | 468,570 | 353,102 | 42,653 | 864,325 | 476,340 | 339,031 | 42,623 | 857,994 |

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)

| (\$ millions) | LINE # | Q1 2021 | | | | Q4 2020 | | | |
|--|-----------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|
| | | Canada | U.S. | Other | Total | Canada | U.S. | Other | Total |
| Corporate (incl specialized lending and SMEs treated as corporate) | 1 | 145,799 | 193,611 | 12,609 | 352,019 | 146,961 | 195,850 | 12,289 | 355,100 |
| Sovereign | 2 | 77,029 | 100,986 | 13,833 | 191,848 | 72,168 | 93,006 | 13,439 | 178,613 |
| Bank | 3 | 3,436 | 7,754 | 16,675 | 27,865 | 3,037 | 7,142 | 18,348 | 28,527 |
| Total Wholesale | 4 | 226,264 | 302,351 | 43,117 | 571,732 | 222,166 | 295,998 | 44,076 | 562,240 |
| Residential mortgages excluding home equity line of credits (HELOCs) | 5 | 105,269 | 8,188 | - | 113,457 | 103,610 | 8,630 | - | 112,240 |
| HELOCs | 6 | 45,147 | 6,090 | - | 51,237 | 43,907 | 6,474 | - | 50,381 |
| Other retail | 7 | 33,337 | 10,976 | 582 | 44,895 | 31,965 | 11,398 | 469 | 43,832 |
| Qualifying revolving retail | 8 | 39,286 | - | - | 39,286 | 37,098 | - | - | 37,098 |
| Retail SMEs | 9 | 7,775 | 7,781 | 2 | 15,558 | 7,805 | 7,932 | 3 | 15,740 |
| Total Retail | 10 | 230,814 | 33,035 | 584 | 264,433 | 224,385 | 34,434 | 472 | 259,291 |
| Other assets | 11 | 6,286 | 2,570 | 644 | 9,500 | 5,945 | 2,670 | 582 | 9,197 |
| Equity | 12 | 101 | 1,372 | 252 | 1,725 | 93 | 1,370 | 234 | 1,697 |
| Total Bank | 13 | 463,465 | 339,328 | 44,597 | 847,390 | 452,589 | 334,472 | 45,364 | 832,425 |

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (1)

| (\$ millions) | LINE # | Q3 2020 | | | |
|--|-----------|----------------|----------------|---------------|----------------|
| | | Canada | U.S. | Other | Total |
| Corporate (incl specialized lending and SMEs treated as corporate) | 1 | 146,773 | 196,021 | 12,959 | 355,753 |
| Sovereign | 2 | 75,649 | 107,549 | 15,040 | 198,238 |
| Bank | 3 | 4,969 | 6,865 | 17,619 | 29,453 |
| Total Wholesale | 4 | 227,391 | 310,435 | 45,618 | 583,444 |
| Residential mortgages excluding home equity line of credits (HELOCs) | 5 | 101,714 | 9,370 | - | 111,084 |
| HELOCs | 6 | 42,973 | 6,664 | - | 49,637 |
| Other retail | 7 | 30,690 | 11,470 | 577 | 42,737 |
| Qualifying revolving retail | 8 | 37,980 | - | - | 37,980 |
| Retail SMEs | 9 | 7,655 | 7,411 | 1 | 15,067 |
| Total Retail | 10 | 221,012 | 34,915 | 578 | 256,505 |
| Other assets | 11 | 6,050 | 2,710 | 433 | 9,193 |
| Equity | 12 | 91 | 1,348 | 217 | 1,656 |
| Total Bank | 13 | 454,544 | 349,408 | 46,846 | 850,798 |

(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)

| (\$ millions) | LINE # | Q3 2021 | | | | Q2 2021 | | | | Q1 2021 | Q4 2020 | Q3 2020 |
|--|-----------|----------------|---------------------------|-----------------------------------|----------------|----------------|---------------------------|-----------------------------------|----------------|----------------|----------------|----------------|
| | | Drawn | Commitments (undrawn) (2) | Other off-balance sheet items (3) | Total | Drawn | Commitments (undrawn) (2) | Other off-balance sheet items (3) | Total | Total | Total | Total |
| | | | | | | | | | | Total | Total | Total |
| Corporate (incl specialized lending and SMEs treated as corporate) | 1 | 228,854 | 103,388 | 20,055 | 352,297 | 223,517 | 100,948 | 19,852 | 344,317 | 352,019 | 355,100 | 355,753 |
| Sovereign | 2 | 191,239 | 3,307 | 1,369 | 195,915 | 200,542 | 3,446 | 1,559 | 205,547 | 191,848 | 178,613 | 198,238 |
| Bank | 3 | 18,852 | 5,662 | 1,887 | 26,401 | 20,205 | 5,477 | 1,646 | 27,328 | 27,865 | 28,527 | 29,453 |
| Total Wholesale | 4 | 438,945 | 112,357 | 23,311 | 574,613 | 444,264 | 109,871 | 23,057 | 577,192 | 571,732 | 562,240 | 583,444 |
| Residential mortgages excluding home equity line of credits (HELOCs) | 5 | 117,860 | 57 | 44 | 117,961 | 114,721 | 49 | 47 | 114,817 | 113,457 | 112,240 | 111,084 |
| HELOCs | 6 | 38,030 | 17,555 | - | 55,585 | 35,985 | 17,019 | - | 53,004 | 51,237 | 50,381 | 49,637 |
| Other retail | 7 | 44,798 | 3,797 | 1 | 48,596 | 42,589 | 3,668 | 1 | 46,258 | 44,895 | 43,832 | 42,737 |
| Qualifying revolving retail | 8 | 9,465 | 30,574 | - | 40,039 | 9,337 | 30,197 | - | 39,534 | 39,286 | 37,098 | 37,980 |
| Retail SMEs | 9 | 12,400 | 3,746 | 42 | 16,188 | 12,224 | 3,677 | 42 | 15,943 | 15,558 | 15,740 | 15,067 |
| Total Retail | 10 | 222,553 | 55,729 | 87 | 278,369 | 214,856 | 54,610 | 90 | 269,556 | 264,433 | 259,291 | 256,505 |
| Other assets | 11 | 9,497 | - | - | 9,497 | 9,555 | - | - | 9,555 | 9,500 | 9,197 | 9,193 |
| Equity | 12 | 1,624 | 222 | - | 1,846 | 1,490 | 201 | - | 1,691 | 1,725 | 1,697 | 1,656 |
| Total Bank | 13 | 672,619 | 168,308 | 23,398 | 864,325 | 670,165 | 164,682 | 23,147 | 857,994 | 847,390 | 832,425 | 850,798 |

CREDIT RISK BY RESIDUAL CONTRACT MATURITY BREAKDOWN (1)

| (\$ millions) | LINE # | Q3 2021 | | | | Q2 2021 | | | | Q1 2021 | Q4 2020 | Q3 2020 |
|----------------------|----------|----------------|---------------------------|-----------------------------------|----------------|----------------|---------------------------|-----------------------------------|----------------|----------------|----------------|----------------|
| | | Drawn | Commitments (undrawn) (2) | Other off-balance sheet items (3) | Total | Drawn | Commitments (undrawn) (2) | Other off-balance sheet items (3) | Total | Total | Total | Total |
| | | | | | | | | | | Total | Total | Total |
| Up to 1 year | 1 | 258,542 | 94,122 | 17,665 | 370,329 | 273,018 | 94,571 | 16,991 | 384,580 | 363,088 | 344,055 | 363,815 |
| 1 to 5 years | 2 | 319,837 | 68,753 | 5,655 | 394,245 | 310,293 | 64,092 | 6,069 | 380,454 | 390,599 | 392,740 | 394,832 |
| Greater than 5 years | 3 | 94,240 | 5,433 | 78 | 99,751 | 86,854 | 6,019 | 87 | 92,960 | 93,703 | 95,630 | 92,151 |
| Total Bank | 4 | 672,619 | 168,308 | 23,398 | 864,325 | 670,165 | 164,682 | 23,147 | 857,994 | 847,390 | 832,425 | 850,798 |

CREDIT RISK EXPOSURE BY INDUSTRY (1)

| (\$ millions) | LINE # | Q3 2021 | | | | Q2 2021 | | | | Q1 2021 | Q4 2020 | Q3 2020 |
|--------------------|-----------|----------------|---------------------------|-----------------------------------|----------------|----------------|---------------------------|-----------------------------------|----------------|----------------|----------------|----------------|
| | | Drawn | Commitments (undrawn) (2) | Other off-balance sheet items (3) | Total | Drawn | Commitments (undrawn) (2) | Other off-balance sheet items (3) | Total | Total | Total | Total |
| | | | | | | | | | | Total | Total | Total |
| Agriculture | 1 | 12,994 | 1,807 | 101 | 14,902 | 12,622 | 1,783 | 45 | 14,450 | 14,458 | 14,704 | 14,874 |
| Communications | 2 | 1,098 | 2,571 | 325 | 3,994 | 1,194 | 2,119 | 281 | 3,594 | 2,644 | 2,677 | 2,651 |
| Construction | 3 | 3,839 | 3,711 | 1,129 | 8,679 | 3,728 | 3,654 | 1,050 | 8,432 | 8,654 | 9,226 | 9,489 |
| Financial | 4 | 178,009 | 25,563 | 6,657 | 210,229 | 184,797 | 24,885 | 6,854 | 216,536 | 196,827 | 173,184 | 183,676 |
| Forest products | 5 | 774 | 814 | 151 | 1,739 | 855 | 656 | 139 | 1,650 | 1,650 | 1,673 | 1,654 |
| Government | 6 | 67,859 | 1,618 | 401 | 69,878 | 64,762 | 1,789 | 564 | 67,115 | 75,589 | 80,675 | 84,909 |
| Individual | 7 | 222,551 | 55,729 | 88 | 278,368 | 214,858 | 54,610 | 90 | 269,558 | 264,429 | 259,291 | 256,504 |
| Manufacturing | 8 | 26,085 | 16,463 | 1,893 | 44,441 | 25,977 | 15,414 | 1,770 | 43,161 | 44,560 | 46,324 | 47,263 |
| Mining | 9 | 2,411 | 4,259 | 1,496 | 8,166 | 2,586 | 4,109 | 1,428 | 8,123 | 8,697 | 8,507 | 9,069 |
| Oil and Gas | 10 | 9,088 | 9,690 | 1,476 | 20,254 | 10,510 | 10,172 | 1,626 | 22,308 | 24,206 | 26,583 | 26,908 |
| Other | 11 | 16,281 | 855 | 283 | 17,419 | 16,311 | 698 | 258 | 17,267 | 17,802 | 15,840 | 17,767 |
| Real estate | 12 | 43,888 | 9,668 | 1,110 | 54,666 | 42,979 | 8,950 | 1,036 | 52,965 | 52,583 | 53,111 | 52,786 |
| Retail trade | 13 | 16,678 | 4,385 | 591 | 21,654 | 17,977 | 4,578 | 580 | 23,135 | 24,096 | 25,255 | 25,794 |
| Service industries | 14 | 44,060 | 15,650 | 2,930 | 62,640 | 44,866 | 15,113 | 2,990 | 62,969 | 63,885 | 66,064 | 67,497 |
| Transportation | 15 | 8,024 | 2,685 | 1,283 | 11,992 | 7,646 | 4,289 | 1,227 | 13,162 | 11,772 | 12,353 | 12,503 |
| Utilities | 16 | 4,902 | 7,264 | 2,845 | 15,011 | 4,442 | 6,803 | 2,579 | 13,824 | 14,937 | 15,564 | 15,424 |
| Wholesale trade | 17 | 14,078 | 5,576 | 639 | 20,293 | 14,055 | 5,060 | 630 | 19,745 | 20,601 | 21,394 | 22,030 |
| Total Bank | 18 | 672,619 | 168,308 | 23,398 | 864,325 | 670,165 | 164,682 | 23,147 | 857,994 | 847,390 | 832,425 | 850,798 |

(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.

CCR1 - ANALYSIS OF COUNTERPARTY CREDIT RISK (CCR) EXPOSURE BY APPROACH (1)

| | Q3 2021 | | | | | |
|--|------------------|---------------------------|---|---|--------------|--------|
| | Replacement cost | Potential future exposure | Effective Expected Positive Exposure (EEPE) | Alpha used for computing regulatory EAD | EAD post-CRM | RWA |
| | a | b | c | d | e | 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 |

(\$ millions except as noted)

CCR1 - ANALYSIS OF COUNTERPARTY CREDIT RISK (CCR) EXPOSURE BY APPROACH (1)

| | Q2 2021 | | | | | |
|--|------------------|---------------------------|---|---|--------------|--------|
| | Replacement cost | Potential future exposure | Effective Expected Positive Exposure (EEPE) | Alpha used for computing regulatory EAD | EAD post-CRM | RWA |
| | a | b | c | d | e | f |
| 1 SA-CCR (for derivatives) | 9,182 | 17,524 | | 1.4 | 37,388 | 10,987 |
| 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) | | | | | 33,790 | 4,606 |
| 5 VaR for SFTs | | | | | - | - |
| 6 Total | | | | | | 15,593 |

(\$ millions except as noted)

CCR1 - ANALYSIS OF COUNTERPARTY CREDIT RISK (CCR) EXPOSURE BY APPROACH (1)

| | Q1 2021 | | | | | |
|--|------------------|---------------------------|---|---|--------------|--------|
| | Replacement cost | Potential future exposure | Effective Expected Positive Exposure (EEPE) | Alpha used for computing regulatory EAD | EAD post-CRM | RWA |
| | a | b | c | d | e | f |
| 1 SA-CCR (for derivatives) | 8,261 | 18,967 | | 1.4 | 37,960 | 11,524 |
| 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) | | | | | 29,317 | 4,165 |
| 5 VaR for SFTs | | | | | - | - |
| 6 Total | | | | | | 15,689 |

(\$ millions except as noted)

CCR1 - ANALYSIS OF COUNTERPARTY CREDIT RISK (CCR) EXPOSURE BY APPROACH (1)

| | Q4 2020 | | | | | |
|--|------------------|---------------------------|---|---|--------------|--------|
| | Replacement cost | Potential future exposure | Effective Expected Positive Exposure (EEPE) | Alpha used for computing regulatory EAD | EAD post-CRM | RWA |
| | a | b | c | d | e | f |
| 1 SA-CCR (for derivatives) | 9,402 | 18,319 | | 1.4 | 38,583 | 11,605 |
| 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) | | | | | 25,490 | 3,408 |
| 5 VaR for SFTs | | | | | - | - |
| 6 Total | | | | | | 15,013 |

(\$ millions except as noted)

CCR1 - ANALYSIS OF COUNTERPARTY CREDIT RISK (CCR) EXPOSURE BY APPROACH (1)

| | Q3 2020 | | | | | |
|--|------------------|---------------------------|---|---|--------------|--------|
| | Replacement cost | Potential future exposure | Effective Expected Positive Exposure (EEPE) | Alpha used for computing regulatory EAD | EAD post-CRM | RWA |
| | a | b | c | d | e | f |
| 1 SA-CCR (for derivatives) | 10,415 | 16,090 | | 1.4 | 36,863 | 10,354 |
| 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) | | | | | 21,328 | 3,647 |
| 5 VaR for SFTs | | | | | - | - |
| 6 Total | | | | | | 14,001 |

(\$ millions except as noted)

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

**CCR2 - CREDIT VALUATION ADJUSTMENT (CVA)
CAPITAL CHARGE**

(\$ millions)

| | Q3 2021 | | Q2 2021 | |
|---|--------------|-------|--------------|-------|
| | EAD post-CRM | RWA | EAD post-CRM | RWA |
| | a | 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 | 27,857 | 3,795 | 26,170 | 4,563 |
| 4 Total subject to the CVA capital charge | 27,857 | 3,795 | 26,170 | 4,563 |

**CCR2 - CREDIT VALUATION ADJUSTMENT (CVA)
CAPITAL CHARGE**

(\$ millions)

| | Q1 2021 | | Q4 2020 | |
|---|--------------|-------|--------------|-------|
| | EAD post-CRM | RWA | EAD post-CRM | RWA |
| | a | 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 | 26,683 | 5,036 | 27,167 | 4,198 |
| 4 Total subject to the CVA capital charge | 26,683 | 5,036 | 27,167 | 4,198 |

**CCR2 - CREDIT VALUATION ADJUSTMENT (CVA)
CAPITAL CHARGE**

(\$ millions)

| | Q3 2020 | |
|---|--------------|-------|
| | EAD post-CRM | RWA |
| | a | b |
| Total portfolios subject to the Advanced CVA capital charge | - | - |
| 1 (i) VaR component (including the 3×multiplier) | - | - |
| 2 (ii) Stressed VaR component (including the 3×multiplier) | - | - |
| 3 All portfolios subject to the Standardized CVA capital charge | 25,975 | 3,754 |
| 4 Total subject to the CVA capital charge | 25,975 | 3,754 |

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES BY REGULATORY PORTFOLIO AND RISK WEIGHTS (1)

(\$ millions)

| | | Q3 2021 | | | | | | | | |
|--|-----------|-------------|-----|------------|-----|-----|------------|----------|--------|-----------------------|
| | | Risk Weight | | | | | | | | Total credit exposure |
| LINE | | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | |
| Regulatory portfolio | # | a | b | c | d | e | f | g | h | i |
| Sovereigns | 1 | - | - | - | - | - | - | - | - | - |
| Non-central government public sector entities (PSEs) | 2 | - | - | 2 | - | - | - | - | - | 2 |
| Multilateral development banks (MDBs) | 3 | - | - | - | - | - | - | - | - | - |
| Banks | 4 | - | - | 540 | - | - | - | - | - | 540 |
| Securities firms | 5 | - | - | 366 | - | - | - | - | - | 366 |
| Corporates | 6 | - | - | - | - | - | 420 | - | - | 420 |
| 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 | - | - | - | - | - | - | 8 | - | 8 |
| Other assets | 13 | - | - | - | - | - | - | - | - | - |
| Total | 14 | - | - | 908 | - | - | 420 | 8 | - | 1,336 |

CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES BY REGULATORY PORTFOLIO AND RISK WEIGHTS (1)

(\$ millions)

| | | Q2 2021 | | | | | | | | |
|--|-----------|-------------|-----|------------|-----|-----|------------|----------|--------|-----------------------|
| | | Risk Weight | | | | | | | | Total credit exposure |
| LINE | | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | |
| Regulatory portfolio | # | a | b | c | d | e | f | g | h | i |
| Sovereigns | 1 | - | - | - | - | - | - | - | - | - |
| Non-central government public sector entities (PSEs) | 2 | - | - | 1 | - | - | - | - | - | 1 |
| Multilateral development banks (MDBs) | 3 | - | - | - | - | - | - | - | - | - |
| Banks | 4 | - | - | 298 | - | - | - | - | - | 298 |
| Securities firms | 5 | - | - | 528 | - | - | - | - | - | 528 |
| Corporates | 6 | - | - | - | - | - | 427 | - | - | 427 |
| Regulatory retail portfolios | 7 | - | - | - | - | - | - | - | - | - |
| Secured by residential property | 8 | - | - | - | - | - | - | - | - | - |
| Secured by commercial real estate | 9 | - | - | - | - | - | 4 | - | - | 4 |
| Equity | 10 | - | - | - | - | - | - | - | - | - |
| Defaulted exposures | 11 | - | - | - | - | - | - | - | - | - |
| Higher-risk categories (2) | 12 | - | - | - | - | - | - | 3 | - | 3 |
| Other assets | 13 | - | - | - | - | - | - | - | - | - |
| Total | 14 | - | - | 827 | - | - | 431 | 3 | - | 1,261 |

(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)**

(\$ millions)

| Regulatory portfolio | | Q1 2021 | | | | | | | | |
|--|-----------|-------------|-----|------------|-----|-----|------------|----------|--------|-----------------------|
| | | Risk Weight | | | | | | | | Total credit exposure |
| | | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | |
| LINE # | a | b | c | d | e | f | g | h | i | |
| Sovereigns | 1 | - | - | - | - | - | - | - | - | - |
| Non-central government public sector entities (PSEs) | 2 | - | - | - | - | - | - | - | - | - |
| Multilateral development banks (MDBs) | 3 | - | - | - | - | - | - | - | - | - |
| Banks | 4 | - | - | 366 | - | - | - | - | - | 366 |
| Securities firms | 5 | - | - | 366 | - | - | - | - | - | 366 |
| Corporates | 6 | - | - | - | - | 380 | - | - | - | 380 |
| Regulatory retail portfolios | 7 | - | - | - | - | - | - | - | - | - |
| Secured by residential property | 8 | - | - | - | - | - | - | - | - | - |
| Secured by commercial real estate | 9 | - | - | - | - | 6 | - | - | - | 6 |
| Equity | 10 | - | - | - | - | - | - | - | - | - |
| Defaulted exposures | 11 | - | - | - | - | - | - | - | - | - |
| Higher-risk categories (2) | 12 | - | - | - | - | - | 5 | - | - | 5 |
| Other assets | 13 | - | - | - | - | - | - | - | - | - |
| Total | 14 | - | - | 732 | - | - | 386 | 5 | - | 1,123 |

**CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES BY REGULATORY
PORTFOLIO AND RISK WEIGHTS (1)**

(\$ millions)

| Regulatory portfolio | | Q4 2020 | | | | | | | | |
|--|-----------|-------------|-----|------------|-----|-----|------------|----------|--------|-----------------------|
| | | Risk Weight | | | | | | | | Total credit exposure |
| | | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | |
| LINE # | a | b | c | d | e | f | g | h | i | |
| Sovereigns | 1 | - | - | - | - | - | - | - | - | - |
| Non-central government public sector entities (PSEs) | 2 | - | - | - | - | - | - | - | - | - |
| Multilateral development banks (MDBs) | 3 | - | - | - | - | - | - | - | - | - |
| Banks | 4 | - | - | 291 | - | - | - | - | - | 291 |
| Securities firms | 5 | - | - | 3 | - | - | - | - | - | 3 |
| Corporates | 6 | - | - | - | - | 440 | - | - | - | 440 |
| Regulatory retail portfolios | 7 | - | - | - | - | - | - | - | - | - |
| Secured by residential property | 8 | - | - | - | - | - | - | - | - | - |
| Secured by commercial real estate | 9 | - | - | - | - | 6 | - | - | - | 6 |
| Equity | 10 | - | - | - | - | - | - | - | - | - |
| Defaulted exposures | 11 | - | - | - | - | - | - | - | - | - |
| Higher-risk categories (2) | 12 | - | - | - | - | - | 9 | - | - | 9 |
| Other assets | 13 | - | - | - | - | - | - | - | - | - |
| Total | 14 | - | - | 294 | - | - | 446 | 9 | - | 749 |

**CCR3 - STANDARDIZED APPROACH – CCR EXPOSURES BY REGULATORY
PORTFOLIO AND RISK WEIGHTS (1)**

(\$ millions)

| Regulatory portfolio | | Q3 2020 | | | | | | | | |
|--|-----------|-------------|-----|------------|-----|-----|------------|----------|--------|-----------------------|
| | | Risk Weight | | | | | | | | Total credit exposure |
| | | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | |
| LINE # | a | b | c | d | e | f | g | h | i | |
| Sovereigns | 1 | - | - | - | - | - | - | - | - | - |
| Non-central government public sector entities (PSEs) | 2 | - | - | - | - | - | - | - | - | - |
| Multilateral development banks (MDBs) | 3 | - | - | - | - | - | - | - | - | - |
| Banks | 4 | - | - | 326 | - | - | - | - | - | 326 |
| Securities firms | 5 | - | - | 3 | - | - | - | - | - | 3 |
| Corporates | 6 | - | - | - | - | 491 | - | - | - | 491 |
| Regulatory retail portfolios | 7 | - | - | - | - | - | - | - | - | - |
| Secured by residential property | 8 | - | - | - | - | - | - | - | - | - |
| Secured by commercial real estate | 9 | - | - | - | - | 8 | - | - | - | 8 |
| Equity | 10 | - | - | - | - | - | - | - | - | - |
| Defaulted exposures | 11 | - | - | - | - | - | - | - | - | - |
| Higher-risk categories (2) | 12 | - | - | - | - | - | 8 | - | - | 8 |
| Other assets | 13 | - | - | - | - | - | - | - | - | - |
| Total | 14 | - | - | 329 | - | - | 499 | 8 | - | 836 |

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

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

CCR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q3 2021 | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--------------|----------------|------------------------|-----------------|------------------------------|--------|-------------|
| | | | | | | EAD post-CRM | Average PD (1) | Number of obligors (2) | Average LGD (3) | Average maturity (years) (4) | RWA | RWA density |
| | | | | | | a | b | c | d | e | f | g |
| Corporate | | | | | | | | | | | | |
| Investment grade | I-1, I-2, I-3, I-4, I-5 | 0.00 to <0.15 | Aaa to Baa1 | AAA to BBB+ | 1 | 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 | S-3, S-4, P-1, P-2 | 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) | C | 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) | C | C to D | 17 | - | - | - | - | - | - | - |
| Sub-total | | | | | 18 | 16,243 | | 237 | | | 430 | |
| 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 | 17,398 | 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) | C | 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.

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

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

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

CCR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q2 2021 | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--------------|----------------|------------------------|-----------------|------------------------------|--------|-------------|
| | | | | | | EAD post-CRM | Average PD (1) | Number of obligors (2) | Average LGD (3) | Average maturity (years) (4) | RWA | RWA density |
| | | | | | | a | b | c | d | e | f | g |
| Corporate | | | | | | | | | | | | |
| Investment grade | I-1, I-2, I-3, I-4, I-5 | 0.00 to <0.15 | Aaa to Baa1 | AAA to BBB+ | 1 | 16,727 | 0.06% | 3,215 | 28.86% | 0.81 | 1,676 | 10.02% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 2 | 2,006 | 0.19% | 396 | 35.47% | 1.72 | 618 | 30.82% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 3 | 3,395 | 0.32% | 507 | 38.04% | 1.49 | 1,456 | 42.89% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 4 | 4,978 | 0.57% | 537 | 36.07% | 1.42 | 2,841 | 57.07% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 5 | 5,012 | 1.24% | 709 | 29.15% | 1.62 | 3,104 | 61.94% |
| 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 | 1,731 | 3.38% | 289 | 27.52% | 1.50 | 1,333 | 77.03% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 7 | 60 | 13.48% | 20 | 32.60% | 1.47 | 93 | 154.21% |
| Default | Default | 100.00 (Default) | C | C to D | 8 | 29 | 100.00% | 16 | 40.68% | 1.39 | 154 | 539.07% |
| Sub-total | | | | | 9 | 33,938 | | 5,689 | | | 11,275 | |
| 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 | 13,248 | 0.03% | 228 | 10.44% | 1.69 | 409 | 3.09% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 11 | 74 | 0.19% | 6 | 41.24% | 0.97 | 21 | 28.08% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 12 | 24 | 0.32% | 5 | 10.88% | 0.16 | 2 | 8.22% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 13 | 2 | 0.62% | 2 | 19.14% | 4.31 | 1 | 45.22% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 14 | 3 | 1.43% | 2 | 40.00% | 1.00 | 3 | 79.39% |
| 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) | C | C to D | 17 | - | - | - | - | - | - | - |
| Sub-total | | | | | 18 | 13,352 | | 244 | | | 438 | |
| 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 | 19,858 | 0.07% | 278 | 34.47% | 0.97 | 2,367 | 11.92% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 20 | 1,675 | 0.19% | 95 | 41.23% | 0.59 | 479 | 28.62% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 21 | 619 | 0.32% | 49 | 33.41% | 0.58 | 178 | 28.79% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 22 | 464 | 0.54% | 55 | 35.01% | 1.42 | 242 | 52.06% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 23 | 11 | 1.01% | 12 | 49.75% | 0.76 | 11 | 96.46% |
| Non-investment grade to Watchlist | S-3, S-4, P-1, P-2 | 2.50 to <10.00 | Ba3 to Caa1 | BB- to B- | 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) | C | C to D | 26 | - | - | - | - | - | - | - |
| Sub-total | | | | | 27 | 22,627 | | 492 | | | 3,277 | |
| Total (all wholesale portfolios) | | | | | 28 | 69,917 | | 6,425 | | | 14,990 | |

(1) Calculated as obligor PD weighted by EAD.

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

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

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

CCR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q1 2021 | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--------------|----------------|------------------------|-----------------|------------------------------|--------|-------------|
| | | | | | | EAD post-CRM | Average PD (1) | Number of obligors (2) | Average LGD (3) | Average maturity (years) (4) | RWA | RWA density |
| | | | | | | a | b | c | d | e | f | g |
| Corporate | | | | | | | | | | | | |
| Investment grade | I-1, I-2, I-3, I-4, I-5 | 0.00 to <0.15 | Aaa to Baa1 | AAA to BBB+ | 1 | 12,549 | 0.06% | 3,048 | 29.24% | 1.03 | 1,487 | 11.85% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 2 | 2,494 | 0.19% | 364 | 33.26% | 1.72 | 744 | 29.85% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 3 | 3,240 | 0.32% | 489 | 39.34% | 1.86 | 1,553 | 47.94% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 4 | 4,563 | 0.57% | 561 | 35.85% | 1.60 | 2,662 | 58.33% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 5 | 4,015 | 1.23% | 747 | 31.80% | 1.70 | 2,738 | 68.20% |
| 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 | 1,705 | 3.57% | 292 | 30.73% | 1.96 | 1,562 | 91.60% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 7 | 66 | 13.68% | 19 | 38.40% | 1.37 | 121 | 182.09% |
| Default | Default | 100.00 (Default) | C | C to D | 8 | 33 | 100.00% | 19 | 39.68% | 1.64 | 176 | 525.82% |
| Sub-total | | | | | 9 | 28,665 | | 5,539 | | | 11,043 | |
| 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 | 12,020 | 0.03% | 224 | 11.05% | 1.73 | 388 | 3.22% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 11 | 65 | 0.19% | 5 | 43.40% | 0.95 | 19 | 29.47% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 12 | 76 | 0.32% | 5 | 10.19% | 0.04 | 6 | 7.30% |
| 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 | 65.00% | 1.00 | - | 83.25% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 14 | 3 | 0.91% | 2 | 40.00% | 1.00 | 2 | 66.22% |
| 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) | C | C to D | 17 | - | - | - | - | - | - | - |
| Sub-total | | | | | 18 | 12,164 | | 239 | | | 415 | |
| 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 | 21,532 | 0.06% | 270 | 34.32% | 1.03 | 2,521 | 11.70% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 20 | 1,681 | 0.19% | 101 | 35.13% | 0.59 | 411 | 24.43% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 21 | 1,231 | 0.32% | 51 | 31.95% | 0.35 | 320 | 26.03% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 22 | 874 | 0.54% | 72 | 35.51% | 1.19 | 436 | 49.95% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 23 | 6 | 1.14% | 9 | 37.41% | 0.82 | 4 | 64.51% |
| 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 | 1 | 2.74% | 2 | 35.00% | 0.39 | 1 | 81.58% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 25 | - | - | - | - | - | - | - |
| Default | Default | 100.00 (Default) | C | C to D | 26 | - | - | - | - | - | - | - |
| Sub-total | | | | | 27 | 25,325 | | 505 | | | 3,693 | |
| Total (all wholesale portfolios) | | | | | 28 | 66,154 | | 6,283 | | | 15,151 | |

(1) Calculated as obligor PD weighted by EAD.

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

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

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

CCR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q4 2020 | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--------------|----------------|------------------------|-----------------|------------------------------|--------|-------------|
| | | | | | | EAD post-CRM | Average PD (1) | Number of obligors (2) | Average LGD (3) | Average maturity (years) (4) | RWA | RWA density |
| | | | | | | a | b | c | d | e | f | g |
| Corporate | | | | | | | | | | | | |
| Investment grade | I-1, I-2, I-3, I-4, I-5 | 0.00 to <0.15 | Aaa to Baa1 | AAA to BBB+ | 1 | 14,250 | 0.06% | 2,950 | 28.08% | 1.01 | 1,543 | 10.83% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 2 | 1,866 | 0.19% | 364 | 37.61% | 2.45 | 701 | 37.59% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 3 | 2,661 | 0.32% | 494 | 45.67% | 2.32 | 1,535 | 57.68% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 4 | 4,853 | 0.57% | 577 | 34.17% | 1.55 | 2,665 | 54.91% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 5 | 3,518 | 1.25% | 758 | 33.10% | 1.76 | 2,560 | 72.76% |
| 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 | 1,642 | 4.08% | 293 | 28.72% | 1.97 | 1,474 | 89.80% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 7 | 162 | 16.36% | 24 | 30.55% | 1.56 | 246 | 151.65% |
| Default | Default | 100.00 (Default) | C | C to D | 8 | 69 | 100.00% | 22 | 37.27% | 1.27 | 338 | 493.79% |
| Sub-total | | | | | 9 | 29,021 | | 5,482 | | | 11,062 | |
| 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 | 15,199 | 0.03% | 223 | 10.12% | 1.49 | 443 | 2.91% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 11 | 120 | 0.19% | 6 | 41.11% | 0.89 | 33 | 27.59% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 12 | 34 | 0.32% | 7 | 10.71% | 0.15 | 3 | 8.07% |
| 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% | 4 | 20.96% | 1.00 | - | 26.84% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 14 | 2 | 0.91% | 2 | 39.96% | 1.00 | 1 | 66.16% |
| 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 | 2 | 9.70% | 1 | 40.00% | 1.00 | 3 | 163.52% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 16 | - | - | - | - | - | - | - |
| Default | Default | 100.00 (Default) | C | C to D | 17 | - | - | - | - | - | - | - |
| Sub-total | | | | | 18 | 15,358 | | 243 | | | 483 | |
| 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 | 15,962 | 0.06% | 275 | 34.50% | 1.20 | 2,114 | 14.80% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 20 | 1,973 | 0.19% | 97 | 35.29% | 0.52 | 456 | 23.13% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 21 | 688 | 0.32% | 57 | 33.44% | 0.52 | 201 | 29.23% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 22 | 273 | 0.54% | 129 | 35.49% | 0.63 | 131 | 61.42% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 23 | 36 | 1.37% | 10 | 43.70% | 1.00 | 32 | 88.84% |
| 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 | 13 | 4.41% | 6 | 36.72% | 0.68 | 14 | 103.74% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 25 | - | - | - | - | - | - | - |
| Default | Default | 100.00 (Default) | C | C to D | 26 | - | - | - | - | - | - | - |
| Sub-total | | | | | 27 | 18,945 | | 574 | | | 2,948 | |
| Total (all wholesale portfolios) | | | | | 28 | 63,324 | | 6,299 | | | 14,493 | |

(1) Calculated as obligor PD weighted by EAD.

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

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

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

CCR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions except as noted)

| Risk Profile | BMO Rating | PD scale (%) | Moody's Investors Service implied equivalent | Standard & Poor's implied equivalent | LINE # | Q3 2020 | | | | | | |
|--|-------------------------|------------------|--|--------------------------------------|--------|--------------|----------------|------------------------|-----------------|------------------------------|--------|-------------|
| | | | | | | EAD post-CRM | Average PD (1) | Number of obligors (2) | Average LGD (3) | Average maturity (years) (4) | RWA | RWA density |
| | | | | | | a | b | c | d | e | f | g |
| Corporate | | | | | | | | | | | | |
| Investment grade | I-1, I-2, I-3, I-4, I-5 | 0.00 to <0.15 | Aaa to Baa1 | AAA to BBB+ | 1 | 13,650 | 0.06% | 2,964 | 27.61% | 1.13 | 1,606 | 11.77% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 2 | 1,937 | 0.19% | 340 | 38.05% | 2.54 | 736 | 38.00% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 3 | 2,867 | 0.32% | 453 | 43.47% | 2.33 | 1,584 | 55.27% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 4 | 3,361 | 0.58% | 590 | 29.53% | 2.01 | 1,623 | 48.30% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 5 | 4,048 | 1.30% | 821 | 35.34% | 1.58 | 3,140 | 77.57% |
| 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 | 1,242 | 3.40% | 295 | 27.53% | 2.31 | 1,034 | 83.21% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 7 | 114 | 13.56% | 23 | 34.28% | 1.71 | 186 | 163.50% |
| Default | Default | 100.00 (Default) | C | C to D | 8 | 25 | 100.00% | 25 | 44.62% | 1.38 | 147 | 591.17% |
| Sub-total | | | | | 9 | 27,244 | | 5,511 | | | 10,056 | |
| 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 | 12,030 | 0.04% | 221 | 12.58% | 1.93 | 457 | 3.80% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 11 | 121 | 0.19% | 6 | 37.33% | 0.75 | 29 | 24.32% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 12 | 61 | 0.32% | 8 | 10.05% | 0.02 | 4 | 7.12% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 13 | 108 | 0.54% | 3 | 39.45% | 1.00 | 55 | 50.53% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 14 | - | 1.72% | 1 | 15.00% | 1.00 | - | 32.08% |
| 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 | 10 | 9.70% | 1 | 40.00% | 1.00 | 17 | 163.52% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 16 | - | - | - | - | - | - | - |
| Default | Default | 100.00 (Default) | C | C to D | 17 | - | - | - | - | - | - | - |
| Sub-total | | | | | 18 | 12,330 | | 240 | | | 562 | |
| 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 | 15,603 | 0.06% | 266 | 34.46% | 1.04 | 2,233 | 14.31% |
| Investment grade | I-5, I-6 | 0.15 to <0.25 | Baa1 to Baa2 | BBB+ to BBB | 20 | 1,578 | 0.19% | 96 | 35.08% | 0.50 | 370 | 23.46% |
| Investment grade | I-6, I-7 | 0.25 to <0.50 | Baa2 to Baa3 | BBB to BBB- | 21 | 263 | 0.32% | 53 | 35.01% | 0.65 | 30 | 11.40% |
| Investment grade to Non-investment grade | I-7, S-1 | 0.50 to <0.75 | Baa3 to Ba1 | BBB- to BB+ | 22 | 323 | 0.54% | 71 | 35.20% | 0.43 | 159 | 49.23% |
| Non-investment grade | S-1, S-2, S-3 | 0.75 to <2.50 | Ba1 to Ba3 | BB+ to BB- | 23 | 10 | 1.53% | 8 | 42.18% | 1.00 | 9 | 88.71% |
| Non-investment grade to Watchlist | S-3, S-4, P-1, P-2 | 2.50 to <10.00 | Ba3 to Caa1 | BB- to B- | 24 | 4 | 2.74% | 3 | 32.09% | 0.24 | 3 | 72.70% |
| Watchlist | P-2, P-3 | 10.00 to <100.00 | Caa1 to Ca | B- to CC | 25 | - | - | - | - | - | - | - |
| Default | Default | 100.00 (Default) | C | C to D | 26 | - | - | - | - | - | - | - |
| Sub-total | | | | | 27 | 17,781 | | 497 | | | 2,804 | |
| Total (all wholesale portfolios) | | | | | 28 | 57,355 | | 6,248 | | | 13,422 | |

(1) Calculated as obligor PD weighted by EAD.

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

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

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

**CCR5 - COMPOSITION OF COLLATERAL
FOR CCR EXPOSURE (1) (2)**

| | | Q3 2021 | | | | | |
|--------|--------------------------|--|--------------|---------------------------------|--------------|-----------------------------------|---------------------------------|
| | | Collateral used in derivative transactions | | | | Collateral used in SFTs | |
| | | Fair value of collateral received | | Fair value of posted collateral | | Fair value of collateral received | Fair value of posted collateral |
| LINE # | (\$ millions) | Segregated | Unsegregated | Segregated | Unsegregated | e | f |
| | | a | b | c | d | | |
| 1 | Cash – domestic currency | - | 3,032 | - | 1,258 | 29,239 | 41,939 |
| 2 | Cash – other currencies | - | 4,824 | - | 2,840 | 80,145 | 75,398 |
| 3 | Domestic sovereign debt | 68 | 1,044 | 177 | 2,548 | 41,287 | 34,582 |
| 4 | Other sovereign debt | 1,737 | 271 | 879 | 480 | 47,962 | 45,219 |
| 5 | Government agency debt | 283 | 1,964 | - | 507 | 7,986 | 23,796 |
| 6 | Corporate bonds | 256 | - | 255 | 10 | 24,831 | 20,929 |
| 7 | Equity securities | 270 | 337 | 1,795 | 4,308 | 48,925 | 53,942 |
| 8 | Other collateral | - | - | - | - | 7 | 8 |
| 9 | Total | 2,614 | 11,472 | 3,106 | 11,951 | 280,382 | 295,813 |

**CCR5 - COMPOSITION OF COLLATERAL
FOR CCR EXPOSURE (1) (2)**

| | | Q2 2021 | | | | | |
|--------|--------------------------|--|--------------|---------------------------------|--------------|-----------------------------------|---------------------------------|
| | | Collateral used in derivative transactions | | | | Collateral used in SFTs | |
| | | Fair value of collateral received | | Fair value of posted collateral | | Fair value of collateral received | Fair value of posted collateral |
| LINE # | (\$ millions) | Segregated | Unsegregated | Segregated | Unsegregated | e | f |
| | | a | b | c | d | | |
| 1 | Cash – domestic currency | - | 3,745 | - | 1,474 | 29,610 | 34,199 |
| 2 | Cash – other currencies | - | 4,161 | - | 2,180 | 72,327 | 74,603 |
| 3 | Domestic sovereign debt | 226 | 1,036 | 246 | 2,568 | 34,693 | 33,718 |
| 4 | Other sovereign debt | 1,605 | 371 | 686 | 460 | 41,707 | 39,911 |
| 5 | Government agency debt | 189 | 1,899 | - | 389 | 8,618 | 23,974 |
| 6 | Corporate bonds | 197 | 32 | 289 | 11 | 23,569 | 20,162 |
| 7 | Equity securities | 165 | 421 | 1,721 | 3,511 | 51,301 | 54,833 |
| 8 | Other collateral | - | - | - | - | 5 | 4 |
| 9 | Total | 2,383 | 11,665 | 2,942 | 10,593 | 261,830 | 281,404 |

**CCR5 - COMPOSITION OF COLLATERAL
FOR CCR EXPOSURE (1) (2)**

| | | Q1 2021 | | | | | |
|--------|--------------------------|--|--------------|---------------------------------|--------------|-----------------------------------|---------------------------------|
| | | Collateral used in derivative transactions | | | | Collateral used in SFTs | |
| | | Fair value of collateral received | | Fair value of posted collateral | | Fair value of collateral received | Fair value of posted collateral |
| LINE # | (\$ millions) | Segregated | Unsegregated | Segregated | Unsegregated | e | f |
| | | a | b | c | d | | |
| 1 | Cash – domestic currency | 1 | 2,723 | - | 2,743 | 47,295 | 41,492 |
| 2 | Cash – other currencies | - | 4,743 | - | 2,466 | 76,616 | 89,315 |
| 3 | Domestic sovereign debt | 45 | 1,008 | - | 1,463 | 43,313 | 41,047 |
| 4 | Other sovereign debt | 1,377 | 274 | 858 | 776 | 57,493 | 40,887 |
| 5 | Government agency debt | 75 | 2,012 | - | 611 | 9,833 | 25,255 |
| 6 | Corporate bonds | 25 | 2 | 146 | 9 | 21,577 | 31,121 |
| 7 | Equity securities | 215 | 590 | 1,258 | 4,187 | 46,912 | 53,978 |
| 8 | Other collateral | - | - | - | - | - | - |
| 9 | Total | 1,738 | 11,352 | 2,262 | 12,255 | 303,039 | 323,095 |

**CCR5 - COMPOSITION OF COLLATERAL
FOR CCR EXPOSURE (1) (2)**

| | | Q4 2020 | | | | | |
|--------|--------------------------|--|--------------|---------------------------------|--------------|-----------------------------------|---------------------------------|
| | | Collateral used in derivative transactions | | | | Collateral used in SFTs | |
| | | Fair value of collateral received | | Fair value of posted collateral | | Fair value of collateral received | Fair value of posted collateral |
| LINE # | (\$ millions) | Segregated | Unsegregated | Segregated | Unsegregated | e | f |
| | | a | b | c | d | | |
| 1 | Cash – domestic currency | 1 | 1,619 | - | 2,173 | 44,245 | 42,536 |
| 2 | Cash – other currencies | - | 5,124 | - | 2,127 | 68,849 | 79,254 |
| 3 | Domestic sovereign debt | 109 | 2,040 | 73 | 3,317 | 45,158 | 41,810 |
| 4 | Other sovereign debt | 953 | 318 | 583 | 834 | 46,877 | 35,242 |
| 5 | Government agency debt | 32 | 2,083 | - | 822 | 9,564 | 22,890 |
| 6 | Corporate bonds | 27 | 1 | 82 | 14 | 21,421 | 28,907 |
| 7 | Equity securities | 40 | 146 | 698 | 2,711 | 38,973 | 40,242 |
| 8 | Other collateral | - | - | - | - | - | - |
| 9 | Total | 1,162 | 11,331 | 1,436 | 11,998 | 275,087 | 290,881 |

**CCR5 - COMPOSITION OF COLLATERAL
FOR CCR EXPOSURE (1) (2)**

| | | Q3 2020 | | | | | |
|--------|--------------------------|--|--------------|---------------------------------|--------------|-----------------------------------|---------------------------------|
| | | Collateral used in derivative transactions | | | | Collateral used in SFTs | |
| | | Fair value of collateral received | | Fair value of posted collateral | | Fair value of collateral received | Fair value of posted collateral |
| LINE # | (\$ millions) | Segregated | Unsegregated | Segregated | Unsegregated | e | f |
| | | a | b | c | d | | |
| 1 | Cash – domestic currency | - | 1,687 | - | 2,300 | 42,995 | 45,453 |
| 2 | Cash – other currencies | - | 4,378 | - | 4,471 | 84,390 | 83,735 |
| 3 | Domestic sovereign debt | 58 | 1,833 | 344 | 3,439 | 46,829 | 36,178 |
| 4 | Other sovereign debt | 1,181 | 576 | 461 | 992 | 49,200 | 50,220 |
| 5 | Government agency debt | - | 2,119 | 23 | 946 | 12,745 | 23,918 |
| 6 | Corporate bonds | 50 | 2 | 80 | 1 | 20,402 | 22,207 |
| 7 | Equity securities | 62 | 99 | 619 | 3,769 | 39,705 | 43,633 |
| 8 | Other collateral | - | - | - | - | 774 | 388 |
| 9 | Total | 1,351 | 10,694 | 1,527 | 15,918 | 297,040 | 305,732 |

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

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

CCR6 - CREDIT DERIVATIVES EXPOSURES

| (\$ millions) | LINE # | Q3 2021 | | Q2 2021 | |
|----------------------------------|----------|-------------------|-----------------|-------------------|-----------------|
| | | Protection bought | Protection sold | Protection bought | Protection sold |
| | | a | b | c | d |
| Notionals | | | | | |
| Single-name credit default swaps | 1 | 691 | 208 | 898 | 416 |
| Index credit default swaps | 2 | 8,534 | 2,496 | 6,042 | 1,640 |
| Total return swaps | 3 | 3,563 | 48 | 3,450 | 159 |
| Credit options | 4 | 1,878 | 225 | 737 | - |
| Other credit derivatives | 5 | - | - | - | - |
| Total notionals | 6 | 14,666 | 2,977 | 11,127 | 2,215 |
| Fair values | | | | | |
| Positive fair value (asset) | 7 | 57 | 69 | 27 | 20 |
| Negative fair value (liability) | 8 | 284 | 4 | 40 | 71 |

CCR6 - CREDIT DERIVATIVES EXPOSURES

| (\$ millions) | LINE # | Q1 2021 | | Q4 2020 | |
|----------------------------------|----------|-------------------|-----------------|-------------------|-----------------|
| | | Protection bought | Protection sold | Protection bought | Protection sold |
| | | a | b | c | d |
| Notionals | | | | | |
| Single-name credit default swaps | 1 | 940 | 410 | 1,046 | 510 |
| Index credit default swaps | 2 | 6,335 | 1,829 | 6,021 | 1,285 |
| Total return swaps | 3 | 3,455 | 75 | 3,787 | 76 |
| Credit options | 4 | - | - | 340 | - |
| Other credit derivatives | 5 | - | - | - | - |
| Total notionals | 6 | 10,730 | 2,314 | 11,194 | 1,871 |
| Fair values | | | | | |
| Positive fair value (asset) | 7 | 110 | 11 | 94 | 70 |
| Negative fair value (liability) | 8 | 150 | 6 | 13 | 52 |

CCR6 - CREDIT DERIVATIVES EXPOSURES

| (\$ millions) | LINE # | Q3 2020 | |
|----------------------------------|----------|-------------------|-----------------|
| | | Protection bought | Protection sold |
| | | a | b |
| Notionals | | | |
| Single-name credit default swaps | 1 | 1,145 | 589 |
| Index credit default swaps | 2 | 5,380 | 807 |
| Total return swaps | 3 | 2,460 | 176 |
| Credit options | 4 | 93 | - |
| Other credit derivatives | 5 | - | - |
| Total notionals | 6 | 9,078 | 1,572 |
| Fair values | | | |
| Positive fair value (asset) | 7 | 49 | 27 |
| Negative fair value (liability) | 8 | 131 | 9 |

CCR8 - EXPOSURES TO CENTRAL COUNTERPARTIES

| (\$ millions) | Q3 2021 | | Q2 2021 | | Q1 2021 | | Q4 2020 | | Q3 2020 | |
|---|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|
| | EAD (post-CRM) | RWA | EAD (post-CRM) | RWA | EAD (post-CRM) | RWA | EAD (post-CRM) | RWA | EAD (post-CRM) | RWA |
| | a | b | c | d | e | f | g | h | i | j |
| 1 Exposures to QCCPs (total) | | 833 | | 592 | | 877 | | 631 | | 606 |
| 2 Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which: | 16,929 | 348 | 15,247 | 320 | 17,228 | 358 | 16,901 | 349 | 14,026 | 294 |
| 3 (i) OTC derivatives | 3,175 | 73 | 4,029 | 96 | 3,968 | 93 | 3,381 | 79 | 2,817 | 70 |
| 4 (ii) Exchange-traded derivatives | 12,263 | 245 | 10,218 | 204 | 11,844 | 237 | 12,862 | 257 | 10,558 | 211 |
| 5 (iii) Securities financing transactions | 1,491 | 30 | 1,000 | 20 | 1,416 | 28 | 658 | 13 | 651 | 13 |
| 6 (iv) Netting sets where cross-product netting has been approved | - | - | - | - | - | - | - | - | - | - |
| 7 Segregated initial margin | - | - | - | - | - | - | - | - | - | - |
| 8 Non-segregated initial margin | 5,173 | - | 4,157 | - | 4,768 | - | 3,629 | - | 3,800 | - |
| 9 Pre-funded default fund contributions | 1,083 | 485 | 1,010 | 272 | 1,185 | 519 | 798 | 282 | 1,000 | 312 |
| 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 | - | - | - | - | - | - | - | - | - | - |

| DERIVATIVE INSTRUMENTS (\$ millions) | LINE # | Q3 2021 | | | | Q2 2021 | | | |
|---|--------|-----------------|------------------|------------------------|--------------------------|-----------------|------------------|------------------------|--------------------------|
| | | Notional Amount | Replacement Cost | Credit Risk Equivalent | Risk-weighted Assets (1) | Notional Amount | Replacement Cost | Credit Risk Equivalent | Risk-weighted Assets (1) |
| Interest Rate Contracts | | | | | | | | | |
| Over-the-counter | | | | | | | | | |
| Swaps (2) | 1 | 4,183,654 | 3,859 | 8,640 | 2,392 | 4,329,627 | 4,419 | 9,517 | 2,467 |
| Forward rate agreements | 2 | 327,467 | 582 | 2,248 | 987 | 457,650 | 570 | 2,105 | 852 |
| Purchased options | 3 | 66,740 | 21 | 74 | 145 | 62,835 | - | 77 | 254 |
| Written options | 4 | 71,604 | 32 | 135 | 87 | 65,771 | 34 | 166 | 95 |
| | 5 | 4,649,465 | 4,494 | 11,097 | 3,611 | 4,915,883 | 5,023 | 11,865 | 3,668 |
| Exchange traded | | | | | | | | | |
| Futures | 6 | 219,076 | 104 | 195 | 4 | 265,786 | 104 | 204 | 4 |
| Purchased options | 7 | 16,104 | 12 | 18 | - | 6,976 | 3 | 6 | - |
| Written options | 8 | 3,769 | 8 | 12 | - | 2,515 | 6 | 9 | - |
| | 9 | 238,949 | 124 | 225 | 4 | 275,277 | 113 | 219 | 4 |
| Total Interest Rate Contracts | 10 | 4,888,414 | 4,618 | 11,322 | 3,615 | 5,191,160 | 5,136 | 12,084 | 3,672 |
| Foreign Exchange Contracts | | | | | | | | | |
| Over-the-counter | | | | | | | | | |
| Swaps | 11 | 628,112 | 1,081 | 4,861 | 1,089 | 618,097 | 1,238 | 5,249 | 1,296 |
| Forward foreign exchange contracts | 12 | 429,649 | 1,006 | 7,297 | 844 | 464,418 | 1,271 | 7,272 | 983 |
| Purchased options | 13 | 54,514 | 86 | 250 | 88 | 40,020 | 87 | 222 | 109 |
| Written options | 14 | 55,687 | 4 | 91 | 24 | 41,648 | 4 | 84 | 29 |
| | 15 | 1,167,962 | 2,177 | 12,499 | 2,045 | 1,164,183 | 2,600 | 12,827 | 2,417 |
| Exchange traded | | | | | | | | | |
| Futures | 16 | 373 | 1 | 3 | - | 112 | 1 | 1 | - |
| Purchased options | 17 | 1,482 | 23 | 33 | 1 | 1,919 | 23 | 33 | 1 |
| Written options | 18 | 3,788 | 43 | 63 | 1 | 2,284 | 20 | 31 | 1 |
| | 19 | 5,643 | 67 | 99 | 2 | 4,315 | 44 | 65 | 2 |
| Total Foreign Exchange Contracts | 20 | 1,173,605 | 2,244 | 12,598 | 2,047 | 1,168,498 | 2,644 | 12,892 | 2,419 |
| Commodity Contracts | | | | | | | | | |
| Over-the-counter | | | | | | | | | |
| Swaps | 21 | 29,686 | 3,338 | 6,877 | 2,093 | 28,885 | 2,081 | 5,157 | 1,778 |
| Purchased options | 22 | 5,090 | 654 | 1,489 | 441 | 5,107 | 253 | 846 | 259 |
| Written options | 23 | 3,412 | 12 | 236 | 70 | 3,282 | 12 | 230 | 72 |
| | 24 | 38,188 | 4,004 | 8,602 | 2,604 | 37,274 | 2,346 | 6,233 | 2,109 |
| Exchange traded | | | | | | | | | |
| Futures | 25 | 37,241 | 1,630 | 2,987 | 60 | 35,075 | 1,362 | 2,607 | 52 |
| Purchased options | 26 | 7,359 | 922 | 1,350 | 27 | 5,584 | 532 | 794 | 16 |
| Written options | 27 | 8,518 | 584 | 912 | 18 | 7,055 | 391 | 619 | 12 |
| | 28 | 53,118 | 3,136 | 5,249 | 105 | 47,714 | 2,285 | 4,020 | 80 |
| Total Commodity Contracts | 29 | 91,306 | 7,140 | 13,851 | 2,709 | 84,988 | 4,631 | 10,253 | 2,189 |
| Equity Contracts | | | | | | | | | |
| Over-the-counter | 30 | 82,223 | 452 | 10,020 | 2,907 | 81,512 | 583 | 9,534 | 2,806 |
| Exchange traded | 31 | 92,906 | 3,017 | 6,691 | 134 | 91,829 | 2,703 | 5,933 | 119 |
| Total Equity Contracts | 32 | 175,129 | 3,469 | 16,711 | 3,041 | 173,341 | 3,286 | 15,467 | 2,925 |
| Credit Contracts | 33 | 14,032 | 237 | 678 | 65 | 9,733 | 454 | 939 | 82 |
| Sub-total | 34 | 6,342,486 | 17,708 | 55,160 | 11,477 | 6,627,720 | 16,151 | 51,635 | 11,287 |
| Total | 35 | 6,342,486 | 17,708 | 55,160 | 11,477 | 6,627,720 | 16,151 | 51,635 | 11,287 |

(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.

| DERIVATIVE INSTRUMENTS | LINE # | Q1 2021 | | | | Q4 2020 | | | | Q3 2020 | | | |
|---|--------|-----------------|------------------|------------------------|--------------------------|-----------------|------------------|------------------------|--------------------------|-----------------|------------------|------------------------|--------------------------|
| | | Notional Amount | Replacement Cost | Credit Risk Equivalent | Risk-weighted Assets (1) | Notional Amount | Replacement Cost | Credit Risk Equivalent | Risk-weighted Assets (1) | Notional Amount | Replacement Cost | Credit Risk Equivalent | Risk-weighted Assets (1) |
| (\$ millions) | | | | | | | | | | | | | |
| Interest Rate Contracts | | | | | | | | | | | | | |
| Over-the-counter | | | | | | | | | | | | | |
| Swaps (2) | 1 | 4,301,635 | 4,244 | 9,235 | 2,709 | 4,335,291 | 5,228 | 10,713 | 3,380 | 4,462,948 | 6,380 | 12,292 | 4,152 |
| Forward rate agreements | 2 | 462,501 | 1,169 | 3,177 | 1,399 | 517,332 | 1,153 | 3,332 | 1,479 | 448,726 | 879 | 2,299 | 1,083 |
| Purchased options | 3 | 57,437 | 15 | 73 | 201 | 57,833 | 2 | 55 | 12 | 56,180 | 43 | 114 | 136 |
| Written options | 4 | 63,180 | 59 | 199 | 143 | 64,728 | 68 | 206 | 150 | 63,770 | 80 | 216 | 168 |
| | 5 | 4,884,753 | 5,487 | 12,684 | 4,452 | 4,975,184 | 6,451 | 14,306 | 5,021 | 5,031,624 | 7,382 | 14,921 | 5,539 |
| Exchange traded | | | | | | | | | | | | | |
| Futures | 6 | 262,981 | 179 | 300 | 6 | 297,626 | 22 | 83 | 2 | 319,350 | 200 | 351 | 7 |
| Purchased options | 7 | 5,344 | 2 | 3 | - | 24,683 | 45 | 66 | 1 | 23,384 | 794 | 1,114 | 22 |
| Written options | 8 | 1,101 | 5 | 7 | - | 3,796 | 3 | 4 | - | 13,145 | 5 | 8 | - |
| | 9 | 269,426 | 186 | 310 | 6 | 326,105 | 70 | 153 | 3 | 355,879 | 999 | 1,473 | 29 |
| Total Interest Rate Contracts | 10 | 5,154,179 | 5,673 | 12,994 | 4,458 | 5,301,289 | 6,521 | 14,459 | 5,024 | 5,387,503 | 8,381 | 16,394 | 5,568 |
| Foreign Exchange Contracts | | | | | | | | | | | | | |
| Over-the-counter | | | | | | | | | | | | | |
| Swaps | 11 | 635,785 | 1,026 | 5,482 | 1,285 | 637,501 | 872 | 5,581 | 794 | 632,810 | 997 | 5,576 | 710 |
| Forward foreign exchange contracts | 12 | 494,785 | 1,137 | 8,234 | 712 | 494,640 | 1,032 | 7,859 | 823 | 466,333 | 1,922 | 7,886 | 1,276 |
| Purchased options | 13 | 40,187 | 70 | 205 | 88 | 39,067 | 68 | 196 | 95 | 48,834 | 83 | 241 | 118 |
| Written options | 14 | 43,888 | 5 | 73 | 25 | 41,327 | 5 | 76 | 27 | 52,692 | 6 | 87 | 27 |
| | 15 | 1,214,645 | 2,238 | 13,994 | 2,110 | 1,212,535 | 1,977 | 13,712 | 1,739 | 1,200,669 | 3,008 | 13,790 | 2,131 |
| Exchange traded | | | | | | | | | | | | | |
| Futures | 16 | 1,018 | 2 | 3 | - | 1,608 | 1 | 2 | - | 1,972 | 1 | 5 | - |
| Purchased options | 17 | 1,321 | 19 | 27 | 1 | 1,673 | 12 | 17 | - | 2,265 | 10 | 18 | - |
| Written options | 18 | 2,201 | 31 | 44 | 1 | 2,346 | 12 | 18 | - | 2,250 | 18 | 27 | 1 |
| | 19 | 4,540 | 52 | 74 | 2 | 5,627 | 25 | 37 | - | 6,487 | 29 | 50 | 1 |
| Total Foreign Exchange Contracts | 20 | 1,219,185 | 2,290 | 14,068 | 2,112 | 1,218,162 | 2,002 | 13,749 | 1,739 | 1,207,156 | 3,037 | 13,840 | 2,132 |
| Commodity Contracts | | | | | | | | | | | | | |
| Over-the-counter | | | | | | | | | | | | | |
| Swaps | 21 | 29,999 | 1,349 | 4,441 | 1,832 | 30,613 | 1,424 | 4,215 | 2,119 | 25,966 | 316 | 2,301 | 1,032 |
| Purchased options | 22 | 5,450 | 72 | 581 | 197 | 5,728 | 117 | 746 | 257 | 6,388 | 82 | 530 | 257 |
| Written options | 23 | 3,580 | 5 | 254 | 77 | 3,704 | 1 | 234 | 74 | 3,975 | 3 | 200 | 66 |
| | 24 | 39,029 | 1,426 | 5,276 | 2,106 | 40,045 | 1,542 | 5,195 | 2,450 | 36,329 | 401 | 3,031 | 1,355 |
| Exchange traded | | | | | | | | | | | | | |
| Futures | 25 | 36,469 | 1,288 | 2,625 | 53 | 39,011 | 635 | 1,612 | 33 | 35,895 | 1,203 | 2,298 | 46 |
| Purchased options | 26 | 5,269 | 877 | 1,276 | 26 | 4,846 | 373 | 562 | 11 | 4,637 | 250 | 379 | 8 |
| Written options | 27 | 6,634 | 663 | 987 | 20 | 6,514 | 221 | 363 | 7 | 6,530 | 273 | 431 | 9 |
| | 28 | 48,372 | 2,828 | 4,888 | 99 | 50,371 | 1,229 | 2,537 | 51 | 47,062 | 1,726 | 3,108 | 63 |
| Total Commodity Contracts | 29 | 87,401 | 4,254 | 10,164 | 2,205 | 90,416 | 2,771 | 7,732 | 2,501 | 83,391 | 2,127 | 6,139 | 1,418 |
| Equity Contracts | | | | | | | | | | | | | |
| Over-the-counter | 30 | 71,946 | 541 | 9,162 | 2,884 | 60,504 | 563 | 8,010 | 2,399 | 53,882 | 402 | 7,163 | 1,348 |
| Exchange traded | 31 | 80,185 | 3,101 | 6,572 | 131 | 110,274 | 5,958 | 10,135 | 203 | 56,035 | 3,218 | 5,929 | 119 |
| Total Equity Contracts | 32 | 152,131 | 3,642 | 15,734 | 3,015 | 170,778 | 6,521 | 18,145 | 2,602 | 109,917 | 3,620 | 13,092 | 1,467 |
| Credit Contracts | 33 | 9,514 | 372 | 812 | 64 | 9,202 | 272 | 741 | 75 | 8,014 | 360 | 773 | 50 |
| Sub-total | 34 | 6,622,410 | 16,231 | 53,772 | 11,854 | 6,789,847 | 18,087 | 54,826 | 11,941 | 6,795,981 | 17,525 | 50,238 | 10,635 |
| Total | 35 | 6,622,410 | 16,231 | 53,772 | 11,854 | 6,789,847 | 18,087 | 54,826 | 11,941 | 6,795,981 | 17,525 | 50,238 | 10,635 |

(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)

| (\$ millions) | Q3 2021 | | | | | | | | | |
|---------------|-----------------------------------|----------------|----------------|----------------------|----------------|----------------|-----------------------|----------------|----------------|----|
| | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | | |
| | Traditional a | Synthetic b | Sub-total c | Traditional d | Synthetic e | Sub-total f | Traditional g | Synthetic h | Sub-total 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 | - | - | - | - | - | - | - | - | - |

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

| (\$ millions) | Q2 2021 | | | | | | | | | |
|---------------|-----------------------------------|----------------|----------------|----------------------|----------------|----------------|-----------------------|----------------|----------------|----|
| | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | | |
| | Traditional a | Synthetic b | Sub-total c | Traditional d | Synthetic e | Sub-total f | Traditional g | Synthetic h | Sub-total i | |
| 1 | Total retail, of which: | 498 | - | 498 | 12,844 | - | 12,844 | 32 | - | 32 |
| 2 | Residential mortgage (3) | 174 | - | 174 | 1,821 | - | 1,821 | 7 | - | 7 |
| 3 | Credit card | - | - | - | 693 | - | 693 | - | - | - |
| 4 | Other retail exposures | 324 | - | 324 | 10,330 | - | 10,330 | 25 | - | 25 |
| 5 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 6 | Total wholesale, of which: | 92 | 12,900 | 12,992 | 4,539 | - | 4,539 | 25 | - | 25 |
| 7 | Loans to corporates | 92 | 12,900 | 12,992 | 209 | - | 209 | - | - | - |
| 8 | Commercial mortgage | - | - | - | - | - | - | - | - | - |
| 9 | Lease and receivables | - | - | - | 3,807 | - | 3,807 | 19 | - | 19 |
| 10 | Other wholesale | - | - | - | 523 | - | 523 | 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, 2021, \$142 million (\$434 million at April 30, 2021, \$661 million at January 31, 2021, \$nil at October 31, 2020 and \$127 million at July 31, 2020) securitizations were capitalized under the Credit Risk framework.
- (2) The table excludes securitization-related assets of \$5,899 million at July 31, 2021 (\$6,171 million at April 30, 2021, \$6,781 million at January 31, 2021, \$8,094 million at October 31, 2020 and \$8,359 million at July 31, 2020) 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)

| (\$ millions) | | Q1 2021 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | f | g | h | i |
| 1 | Total retail, of which: | 736 | - | 736 | 12,791 | - | 12,791 | 40 | - | 40 |
| 2 | Residential mortgage (3) | 337 | - | 337 | 1,887 | - | 1,887 | 15 | - | 15 |
| 3 | Credit card | - | - | - | 816 | - | 816 | - | - | - |
| 4 | Other retail exposures | 399 | - | 399 | 10,088 | - | 10,088 | 25 | - | 25 |
| 5 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 6 | Total wholesale, of which: | 70 | 14,345 | 14,415 | 4,689 | - | 4,689 | 7 | - | 7 |
| 7 | Loans to corporates | 70 | 14,345 | 14,415 | 218 | - | 218 | - | - | - |
| 8 | Commercial mortgage | - | - | - | - | - | - | - | - | - |
| 9 | Lease and receivables | - | - | - | 3,936 | - | 3,936 | - | - | - |
| 10 | Other wholesale | - | - | - | 535 | - | 535 | 7 | - | 7 |
| 11 | Re-securitization | - | - | - | - | - | - | - | - | - |

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

| (\$ millions) | | Q4 2020 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | f | g | h | i |
| 1 | Total retail, of which: | 2,167 | - | 2,167 | 12,285 | - | 12,285 | 44 | - | 44 |
| 2 | Residential mortgage (3) | 418 | - | 418 | 2,011 | - | 2,011 | 19 | - | 19 |
| 3 | Credit card | 1,654 | - | 1,654 | 827 | - | 827 | - | - | - |
| 4 | Other retail exposures | 95 | - | 95 | 9,447 | - | 9,447 | 25 | - | 25 |
| 5 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 6 | Total wholesale, of which: | 73 | 14,641 | 14,714 | 5,045 | - | 5,045 | 7 | - | 7 |
| 7 | Loans to corporates | 73 | 14,641 | 14,714 | 316 | - | 316 | - | - | - |
| 8 | Commercial mortgage | - | - | - | - | - | - | - | - | - |
| 9 | Lease and receivables | - | - | - | 4,182 | - | 4,182 | - | - | - |
| 10 | Other wholesale | - | - | - | 547 | - | 547 | 7 | - | 7 |
| 11 | Re-securitization | - | - | - | - | - | - | - | - | - |

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

| (\$ millions) | | Q3 2020 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | f | g | h | i |
| 1 | Total retail, of which: | 2,426 | - | 2,426 | 12,158 | - | 12,158 | 22 | - | 22 |
| 2 | Residential mortgage (3) | 543 | - | 543 | 2,052 | - | 2,052 | 22 | - | 22 |
| 3 | Credit card | 1,654 | - | 1,654 | 964 | - | 964 | - | - | - |
| 4 | Other retail exposures | 229 | - | 229 | 9,142 | - | 9,142 | - | - | - |
| 5 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 6 | Total wholesale, of which: | 73 | 14,894 | 14,967 | 5,223 | - | 5,223 | 7 | - | 7 |
| 7 | Loans to corporates | 73 | 14,894 | 14,967 | 318 | - | 318 | - | - | - |
| 8 | Commercial mortgage | - | - | - | - | - | - | - | - | - |
| 9 | Lease and receivables | - | - | - | 4,416 | - | 4,416 | - | - | - |
| 10 | Other wholesale | - | - | - | 489 | - | 489 | 7 | - | 7 |
| 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, 2021, \$142 million (\$434 million April 30, 2021, \$661 million at January 31, 2021, \$nil at October 31, 2020 and \$127 million at July 31, 2020) securitizations were capitalized under the Credit Risk framework.
- (2) The table excludes securitization-related assets of \$5,899 million at July 31, 2021 (\$6,171 million at April 30, 2021, \$6,781 million at January 31, 2021, \$8,094 million at October 31, 2020 and \$8,359 million at July 31, 2020) 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)

| (\$ millions) | | Q3 2021 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | 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 | - | - | - | - | - | - | - | - | - |

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)

| (\$ millions) | | Q2 2021 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | f | g | h | i |
| 1 | Total retail, of which: | - | - | - | - | - | - | 92 | - | 92 |
| 2 | Residential mortgage | - | - | - | - | - | - | 45 | - | 45 |
| 3 | Credit card | - | - | - | - | - | - | 15 | - | 15 |
| 4 | Auto loans/leases | - | - | - | - | - | - | 29 | - | 29 |
| 5 | Student loans | - | - | - | - | - | - | - | - | - |
| 6 | Other retail exposures | - | - | - | - | - | - | 3 | - | 3 |
| 7 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 8 | Total wholesale, of which: | - | - | - | - | - | - | 47 | - | 47 |
| 9 | Loans to corporates | - | - | - | - | - | - | - | - | - |
| 10 | Commercial mortgage | - | - | - | - | - | - | 47 | - | 47 |
| 11 | Lease and receivables | - | - | - | - | - | - | - | - | - |
| 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)

| (\$ millions) | | Q1 2021 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | f | g | h | i |
| 1 | Total retail, of which: | - | - | - | - | - | - | 123 | - | 123 |
| 2 | Residential mortgage | - | - | - | - | - | - | 62 | - | 62 |
| 3 | Credit card | - | - | - | - | - | - | 4 | - | 4 |
| 4 | Auto loans/leases | - | - | - | - | - | - | 53 | - | 53 |
| 5 | Student loans | - | - | - | - | - | - | - | - | - |
| 6 | Other retail exposures | - | - | - | - | - | - | 4 | - | 4 |
| 7 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 8 | Total wholesale, of which: | - | - | - | - | - | - | 25 | - | 25 |
| 9 | Loans to corporates | - | - | - | - | - | - | - | - | - |
| 10 | Commercial mortgage | - | - | - | - | - | - | 24 | - | 24 |
| 11 | Lease and receivables | - | - | - | - | - | - | - | - | - |
| 12 | Auto floorplan | - | - | - | - | - | - | - | - | - |
| 13 | Insurance premium | - | - | - | - | - | - | - | - | - |
| 14 | Other wholesale | - | - | - | - | - | - | 1 | - | 1 |
| 15 | Re-securitization | - | - | - | - | - | - | - | - | - |

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)

| (\$ millions) | | Q4 2020 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | f | g | h | i |
| 1 | Total retail, of which: | - | - | - | - | - | - | 151 | - | 151 |
| 2 | Residential mortgage | - | - | - | - | - | - | 49 | - | 49 |
| 3 | Credit card | - | - | - | - | - | - | (7) | - | (7) |
| 4 | Auto loans/leases | - | - | - | - | - | - | 65 | - | 65 |
| 5 | Student loans | - | - | - | - | - | - | 9 | - | 9 |
| 6 | Other retail exposures | - | - | - | - | - | - | 35 | - | 35 |
| 7 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 8 | Total wholesale, of which: | - | - | - | - | - | - | 85 | - | 85 |
| 9 | Loans to corporates | - | - | - | - | - | - | 1 | - | 1 |
| 10 | Commercial mortgage | - | - | - | - | - | - | 68 | - | 68 |
| 11 | Lease and receivables | - | - | - | - | - | - | 2 | - | 2 |
| 12 | Auto floorplan | - | - | - | - | - | - | - | - | - |
| 13 | Insurance premium | - | - | - | - | - | - | 10 | - | 10 |
| 14 | Other wholesale | - | - | - | - | - | - | 4 | - | 4 |
| 15 | Re-securitization | - | - | - | - | - | - | - | - | - |

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK (1)

| (\$ millions) | | Q3 2020 | | | | | | | | |
|---------------|-----------------------------------|-------------------------|-----------|-----------|----------------------|-----------|-----------|-----------------------|-----------|-----------|
| | | Bank acts as originator | | | Bank acts as sponsor | | | Bank acts as investor | | |
| | | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total | Traditional | Synthetic | Sub-total |
| | | a | b | c | d | e | f | g | h | i |
| 1 | Total retail, of which: | - | - | - | - | - | - | 263 | - | 263 |
| 2 | Residential mortgage | - | - | - | - | - | - | 69 | - | 69 |
| 3 | Credit card | - | - | - | - | - | - | 2 | - | 2 |
| 4 | Auto loans/leases | - | - | - | - | - | - | 121 | - | 121 |
| 5 | Student loans | - | - | - | - | - | - | 22 | - | 22 |
| 6 | Other retail exposures | - | - | - | - | - | - | 49 | - | 49 |
| 7 | Re-securitization | - | - | - | - | - | - | - | - | - |
| 8 | Total wholesale, of which: | - | - | - | - | - | - | 70 | - | 70 |
| 9 | Loans to corporates | - | - | - | - | - | - | - | - | - |
| 10 | Commercial mortgage | - | - | - | - | - | - | 63 | - | 63 |
| 11 | Lease and receivables | - | - | - | - | - | - | 5 | - | 5 |
| 12 | Auto floorplan | - | - | - | - | - | - | - | - | - |
| 13 | Insurance premium | - | - | - | - | - | - | - | - | - |
| 14 | Other wholesale | - | - | - | - | - | - | 2 | - | 2 |
| 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 2021 | | | | | | | | | | | | | | | | | | |
|---------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|---|
| (\$ millions) | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% | |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | 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 | 130 | 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

| Q2 2021 | | | | | | | | | | | | | | | | | | |
|---------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|---|
| (\$ millions) | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% | |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | |
| 1 | Total exposures | 28,990 | 139 | 8 | 81 | 44 | 23,979 | 476 | 4,807 | - | 3,642 | 130 | 978 | - | 284 | 11 | 70 | - |
| 2 | Traditional securitization | 17,279 | 139 | 8 | 81 | 32 | 12,256 | 476 | 4,807 | - | 1,729 | 130 | 978 | - | 131 | 11 | 70 | - |
| 3 | Of which securitization | 17,279 | 139 | 8 | 81 | 32 | 12,256 | 476 | 4,807 | - | 1,729 | 130 | 978 | - | 131 | 11 | 70 | - |
| 4 | Of which retail underlying | 12,834 | 16 | - | 27 | 32 | 8,287 | 476 | 4,146 | - | 967 | 130 | 882 | - | 77 | 11 | 62 | - |
| 5 | Of which wholesale | 4,445 | 123 | 8 | 54 | - | 3,969 | - | 661 | - | 762 | - | 96 | - | 54 | - | 8 | - |
| 6 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Of which non-senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Synthetic securitization | 11,711 | - | - | - | 12 | 11,723 | - | - | - | 1,913 | - | - | - | 153 | - | - | - |
| 10 | Of which securitization | 11,711 | - | - | - | 12 | 11,723 | - | - | - | 1,913 | - | - | - | 153 | - | - | - |
| 11 | Of which retail underlying | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Of which wholesale | 11,711 | - | - | - | 12 | 11,723 | - | - | - | 1,913 | - | - | - | 153 | - | - | - |
| 13 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | Of which non-senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

(2) Exposure amounts are net of collateral.

(3) RWA before application of the KIRB cap.

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

| (\$ millions) | Q1 2021 | | | | | | | | | | | | | | | | |
|---------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q |
| 1 | Total exposures | 28,998 | 1,522 | 23 | 74 | 49 | 24,634 | 476 | 5,556 | - | 3,873 | 130 | 1,162 | - | 303 | 10 | 76 |
| 2 | Traditional securitization | 17,340 | 155 | 23 | 74 | 34 | 11,594 | 476 | 5,556 | - | 1,623 | 130 | 1,162 | - | 124 | 10 | 76 |
| 3 | Of which securitization | 17,340 | 155 | 23 | 74 | 34 | 11,594 | 476 | 5,556 | - | 1,623 | 130 | 1,162 | - | 124 | 10 | 76 |
| 4 | Of which retail underlying | 12,780 | 10 | 16 | 27 | 34 | 7,518 | 476 | 4,873 | - | 921 | 130 | 1,062 | - | 74 | 10 | 68 |
| 5 | Of which wholesale | 4,560 | 145 | 7 | 47 | - | 4,076 | - | 683 | - | 702 | - | 100 | - | 50 | - | 8 |
| 6 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Of which non-senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Synthetic securitization | 11,658 | 1,367 | - | - | 15 | 13,040 | - | - | - | 2,250 | - | - | - | 179 | - | - |
| 10 | Of which securitization | 11,658 | 1,367 | - | - | 15 | 13,040 | - | - | - | 2,250 | - | - | - | 179 | - | - |
| 11 | Of which retail underlying | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Of which wholesale | 11,658 | 1,367 | - | - | 15 | 13,040 | - | - | - | 2,250 | - | - | - | 179 | - | - |
| 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)

| (\$ millions) | Q4 2020 | | | | | | | | | | | | | | | | |
|---------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q |
| 1 | Total exposures | 30,959 | 1,804 | 39 | 75 | 68 | 25,145 | 2,130 | 5,670 | - | 4,462 | 295 | 1,284 | - | 351 | 23 | 86 |
| 2 | Traditional securitization | 19,257 | 147 | 39 | 75 | 52 | 11,770 | 2,130 | 5,670 | - | 1,813 | 295 | 1,284 | - | 139 | 23 | 86 |
| 3 | Of which securitization | 19,257 | 147 | 39 | 75 | 52 | 11,770 | 2,130 | 5,670 | - | 1,813 | 295 | 1,284 | - | 139 | 23 | 86 |
| 4 | Of which retail underlying | 14,345 | 11 | 16 | 28 | 52 | 7,445 | 2,130 | 4,877 | - | 1,048 | 295 | 1,167 | - | 84 | 23 | 77 |
| 5 | Of which wholesale | 4,912 | 136 | 23 | 47 | - | 4,325 | - | 793 | - | 765 | - | 117 | - | 55 | - | 9 |
| 6 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Of which non-senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Synthetic securitization | 11,702 | 1,657 | - | - | 16 | 13,375 | - | - | - | 2,649 | - | - | - | 212 | - | - |
| 10 | Of which securitization | 11,702 | 1,657 | - | - | 16 | 13,375 | - | - | - | 2,649 | - | - | - | 212 | - | - |
| 11 | Of which retail underlying | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Of which wholesale | 11,702 | 1,657 | - | - | 16 | 13,375 | - | - | - | 2,649 | - | - | - | 212 | - | - |
| 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)

| (\$ millions) | Q3 2020 | | | | | | | | | | | | | | | | |
|---------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q |
| 1 | Total exposures | 31,357 | 1,828 | 15 | 102 | 75 | 25,311 | 2,130 | 5,936 | - | 4,961 | 295 | 1,313 | - | 392 | 23 | 88 |
| 2 | Traditional securitization | 19,440 | 136 | 15 | 102 | 59 | 11,686 | 2,130 | 5,936 | - | 2,075 | 295 | 1,313 | - | 161 | 23 | 88 |
| 3 | Of which securitization | 19,440 | 136 | 15 | 102 | 59 | 11,686 | 2,130 | 5,936 | - | 2,075 | 295 | 1,313 | - | 161 | 23 | 88 |
| 4 | Of which retail underlying | 14,343 | - | 11 | 43 | 59 | 7,188 | 2,130 | 5,138 | - | 1,109 | 295 | 1,194 | - | 88 | 23 | 79 |
| 5 | Of which wholesale | 5,097 | 136 | 4 | 59 | - | 4,498 | - | 798 | - | 966 | - | 119 | - | 73 | - | 9 |
| 6 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Of which non-senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Synthetic securitization | 11,917 | 1,692 | - | - | 16 | 13,625 | - | - | - | 2,886 | - | - | - | 231 | - | - |
| 10 | Of which securitization | 11,917 | 1,692 | - | - | 16 | 13,625 | - | - | - | 2,886 | - | - | - | 231 | - | - |
| 11 | Of which retail underlying | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | Of which wholesale | 11,917 | 1,692 | - | - | 16 | 13,625 | - | - | - | 2,886 | - | - | - | 231 | - | - |
| 13 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | Of which non-senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

(2) Exposure amounts are net of collateral.

(3) RWA before application of the KIRB cap.

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

| | Q3 2021 | | | | | | | | | | | | | | | | |
|-------------------------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 2021 | | | | | | | | | | | | | | | | |
|-------------------------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q |
| 1 Total exposures | 41 | 16 | - | - | - | 51 | 6 | - | - | 8 | 3 | - | - | 1 | - | - | - |
| 2 Traditional securitization | 41 | 16 | - | - | - | 51 | 6 | - | - | 8 | 3 | - | - | 1 | - | - | - |
| 3 Of which securitization | 41 | 16 | - | - | - | 51 | 6 | - | - | 8 | 3 | - | - | 1 | - | - | - |
| 4 Of which retail underlying | 22 | 10 | - | - | - | 32 | - | - | - | 6 | - | - | - | 1 | - | - | - |
| 5 Of which wholesale | 19 | 6 | - | - | - | 19 | 6 | - | - | 2 | 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

(2) Exposure amounts are net of collateral.

(3) RWA before application of the KIRB cap.

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

| (\$ millions) | Q1 2021 | | | | | | | | | | | | | | | | |
|-------------------------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q |
| 1 Total exposures | 30 | 10 | 7 | - | - | 40 | 7 | - | - | 7 | 4 | - | - | 1 | 1 | - | - |
| 2 Traditional securitization | 30 | 10 | 7 | - | - | 40 | 7 | - | - | 7 | 4 | - | - | 1 | 1 | - | - |
| 3 Of which securitization | 30 | 10 | 7 | - | - | 40 | 7 | - | - | 7 | 4 | - | - | 1 | 1 | - | - |
| 4 Of which retail underlying | 30 | 10 | - | - | - | 40 | - | - | - | 7 | - | - | - | 1 | - | - | - |
| 5 Of which wholesale | - | - | 7 | - | - | - | 7 | - | - | - | 4 | - | - | - | 1 | - | - |
| 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)

| (\$ millions) | Q4 2020 | | | | | | | | | | | | | | | | |
|-------------------------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q |
| 1 Total exposures | 34 | 10 | 7 | - | - | 25 | 26 | - | - | 5 | 8 | - | - | - | 1 | - | - |
| 2 Traditional securitization | 34 | 10 | 7 | - | - | 25 | 26 | - | - | 5 | 8 | - | - | - | 1 | - | - |
| 3 Of which securitization | 34 | 10 | 7 | - | - | 25 | 26 | - | - | 5 | 8 | - | - | - | 1 | - | - |
| 4 Of which retail underlying | 34 | 10 | - | - | - | 25 | 19 | - | - | 5 | 4 | - | - | - | 1 | - | - |
| 5 Of which wholesale | - | - | 7 | - | - | - | 7 | - | - | - | 4 | - | - | - | - | - | - |
| 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)

| (\$ millions) | Q3 2020 | | | | | | | | | | | | | | | | |
|-------------------------------|---------------------------------|-------------|--------------|-----------------|----------|--|-------------------------|--------|-------|--------------------------------|-------------------------|--------|-------|--------------------------|-------------------------|--------|-------|
| | Exposure values by RW bands (2) | | | | | Exposure values by regulatory approach (2) | | | | RWA by regulatory 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% |
| | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q |
| 1 Total exposures | 22 | - | 7 | - | - | - | 29 | - | - | - | 9 | - | - | - | 1 | - | - |
| 2 Traditional securitization | 22 | - | 7 | - | - | - | 29 | - | - | - | 9 | - | - | - | 1 | - | - |
| 3 Of which securitization | 22 | - | 7 | - | - | - | 29 | - | - | - | 9 | - | - | - | 1 | - | - |
| 4 Of which retail underlying | 22 | - | - | - | - | - | 22 | - | - | - | 4 | - | - | - | - | - | - |
| 5 Of which wholesale | - | - | 7 | - | - | - | 7 | - | - | - | 5 | - | - | - | 1 | - | - |
| 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.

(3) RWA before application of the KIRB cap.

MARKET RISK RISK-WEIGHTED ASSETS (RWA) MOVEMENT BY KEY DRIVERS

| (\$ millions) | LINE | | | | | |
|--|------|---------|---------|---------|---------|---------|
| | # | Q3 2021 | Q2 2021 | Q1 2021 | Q4 2020 | Q3 2020 |
| Market Risk RWA, beginning of quarter | 1 | 8,553 | 9,111 | 9,348 | 9,609 | 10,525 |
| Movement in risk levels (1) | 2 | (1,503) | (643) | 133 | (1,028) | (737) |
| Model updates (2) | 3 | - | - | - | - | - |
| Methodology and policy (3) | 4 | 3,345 | 85 | (370) | 767 | (179) |
| Acquisition and disposals | 5 | - | - | - | - | - |
| Foreign exchange movement and others | 6 | - | - | - | - | - |
| Market Risk RWA, end of quarter | 7 | 10,395 | 8,553 | 9,111 | 9,348 | 9,609 |

(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

(\$ millions except as noted)

| Risk Profile | LINE # | Q3 2021 | | | | | | Q2 2021 | | | | | |
|---|--------|-------------------|--------|-------------------|--------|-------------|--------|-------------------|--------|-------------------|--------|-------------|--------|
| | | PD (1) (2) (3) | | LGD (1) (4) (5) | | EAD (6) (7) | | PD (1) (2) (3) | | LGD (1) (4) (5) | | EAD (6) (7) | |
| | | Average estimated | Actual | Average estimated | Actual | Estimated | Actual | Average estimated | Actual | Average estimated | Actual | Estimated | Actual |
| Wholesale | | | | | | | | | | | | | |
| Corporate | 1 | 1.13% | 0.35% | 35.11% | 11.46% | 339 | 265 | 1.05% | 0.60% | 35.56% | 14.77% | 1,128 | 946 |
| Sovereign | 2 | 0.18% | 0.04% | 14.53% | 0.00% | - | - | 0.17% | 0.04% | 18.15% | 0.00% | - | - |
| Bank | 3 | 0.47% | 0.00% | 15.51% | 0.00% | - | - | 0.44% | 0.00% | 15.55% | 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 | 0.92% | 0.49% | 23.75% | 8.29% | 322 | 322 |
| HELOCs (9) | 5 | 0.37% | 0.22% | 27.78% | 10.11% | 79 | 67 | 0.42% | 0.25% | 41.83% | 9.76% | 94 | 81 |
| Qualifying revolving retail (QRR) | 6 | 1.03% | 0.98% | 87.79% | 76.69% | 455 | 412 | 1.17% | 0.98% | 87.22% | 75.01% | 476 | 433 |
| Other retail (excl. SMEs) | 7 | 4.19% | 3.48% | 84.13% | 77.46% | 269 | 267 | 4.46% | 3.60% | 83.87% | 77.35% | 294 | 292 |
| Retail SMEs | 8 | 1.29% | 1.10% | 85.66% | 76.72% | 36 | 33 | 2.74% | 1.39% | 71.26% | 64.85% | 165 | 163 |

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH

(\$ millions except as noted)

| Risk Profile | LINE # | Q1 2021 | | | | | | Q4 2020 | | | | | |
|---|--------|-------------------|--------|-------------------|--------|-------------|--------|-------------------|--------|-------------------|--------|-------------|--------|
| | | PD (1) (2) (3) | | LGD (1) (4) (5) | | EAD (6) (7) | | PD (1) (2) (3) | | LGD (1) (4) (5) | | EAD (6) (7) | |
| | | Average estimated | Actual | Average estimated | Actual | Estimated | Actual | Average estimated | Actual | Average estimated | Actual | Estimated | Actual |
| Wholesale | | | | | | | | | | | | | |
| Corporate | 1 | 1.02% | 0.69% | 35.74% | 20.06% | 1,839 | 1,513 | 1.02% | 0.70% | 35.51% | 19.14% | 1,982 | 1,688 |
| Sovereign | 2 | 0.10% | 0.00% | 12.38% | 0.00% | - | - | 0.11% | 0.00% | 12.30% | 0.00% | - | - |
| Bank | 3 | 0.42% | 0.00% | 15.23% | 0.00% | - | - | 0.38% | 0.00% | 15.22% | 0.00% | - | - |
| Retail | | | | | | | | | | | | | |
| Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9) | 4 | 0.89% | 0.49% | 23.04% | 8.20% | 319 | 319 | 0.92% | 0.48% | 23.70% | 5.04% | 268 | 268 |
| HELOCs (9) | 5 | 0.42% | 0.25% | 39.99% | 8.94% | 100 | 88 | 0.42% | 0.24% | 39.44% | 6.65% | 101 | 85 |
| Qualifying revolving retail (QRR) | 6 | 1.26% | 1.01% | 87.05% | 74.99% | 493 | 451 | 1.24% | 1.06% | 84.92% | 78.38% | 509 | 472 |
| Other retail (excl. SMEs) | 7 | 5.31% | 4.31% | 84.51% | 78.25% | 310 | 308 | 5.13% | 4.39% | 84.57% | 77.12% | 327 | 325 |
| Retail SMEs | 8 | 1.42% | 1.17% | 85.53% | 77.98% | 38 | 34 | 1.34% | 1.23% | 84.10% | 77.91% | 41 | 37 |

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH

(\$ millions except as noted)

| Risk Profile | LINE # | Q3 2020 | | | | | |
|---|--------|-------------------|--------|-------------------|--------|-------------|--------|
| | | PD (1) (2) (3) | | LGD (1) (4) (5) | | EAD (6) (7) | |
| | | Average estimated | Actual | Average estimated | Actual | Estimated | Actual |
| Wholesale | | | | | | | |
| Corporate | 1 | 1.03% | 0.65% | 35.67% | 16.28% | 1,871 | 1,617 |
| Sovereign | 2 | 0.10% | 0.00% | 12.23% | 0.00% | - | - |
| Bank | 3 | 0.42% | 0.00% | 15.79% | 0.00% | - | - |
| Retail | | | | | | | |
| Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (8) (9) | 4 | 0.92% | 0.50% | 22.95% | 7.52% | 287 | 287 |
| HELOCs (9) | 5 | 0.44% | 0.27% | 38.25% | 9.79% | 121 | 107 |
| Qualifying revolving retail (QRR) | 6 | 1.26% | 1.13% | 84.76% | 78.92% | 528 | 497 |
| Other retail (excl. SMEs) | 7 | 5.38% | 4.58% | 84.54% | 77.04% | 346 | 345 |
| Retail SMEs | 8 | 1.40% | 1.29% | 83.73% | 76.62% | 44 | 40 |

(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 approach (AIRB): 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 model 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 our 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.