## Supplemental Regulatory Disclosure

For the Fourth Quarter Ended October 31, 2023

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The information contained in this package is designed to facilitate the readers understanding of the capital requirements of TD Bank Group ("TD" or the "Bank"). This information should be used in conjunction with the Bank's fourth quarter 2023 Earnings News Release, Investor Presentation, and the Supplemental Financial Information package, as well as the Bank's 2023 Annual Report. For Basel-related terms and acronyms used in this package, refer to the "Glossary - Basel" and "Acronyms" pages, respectively.

## How the Bank Reports

The Bank prepares its Consolidated Financial Statements in accordance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board, the current generally accepted accounting principles, and refers to results prepared in accordance with IFRS as "reported" results. Certain comparative amounts have been revised to conform with the presentation adopted in the current period.

Information reported in the Supplemental Regulatory Disclosure are prepared in accordance with the Office of the Superintendent of Financial Institutions Canada's (OSFI's) Capital Adequacy Requirements (CAR), Leverage Requirements and Total Loss Absorbing Capacity (TLAC) guidelines. In addition, the disclosures are prepared in accordance with the Pillar 3 , Capital Disclosure, Leverage Ratio Disclosure Requirements, and TLAC Disclosure Requirement guidelines.

As noted in the Pillar 3 disclosure Index on the following pages, the disclosures are grouped by topic. Of note, Credit Risk consists of credit risk exposures excluding counterparty credit risk (CCR) and includes drawn, undrawn and other off-balance sheet exposures whereas CCR includes repo-style transactions and derivative exposures. The glossary provides additional details of items included in these exposure types.

On February 1, 2023, OSFI implemented revised capital rules that incorporate the Basel III reforms with adjustments to make them suitable for domestic implementation. These revised rules include revisions to the calculation of credit risk and operational risk requirements, and revisions to the Leverage Requirements Guideline to include a requirement for Domestic Systemically Important Banks (D-SIBs) to hold a leverage ratio buffer of $0.50 \%$ in addition to the regulatory minimum requirement of $3.0 \%$. This buffer will also apply to the TLAC leverage ratio supervisory target of $6.75 \%$.

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 Report, Management's Discussion and Analysis, or the Consolidated Financial Statements.

| Topic | Pillar 3 Disclosure Requirements | Frequency | Page |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SFI Fourth Quarter 2023 | SRD Fourth Quarter 2023 | Annual Report 2023 |
| Overview of risk management | OVA - Bank risk management approach. | Annual |  |  | 16, 64, 70-83, 92, 109 |
|  | OV1 - Overview of Risk-Weighted Assets (RWA). | Quarterly |  | 13 |  |
|  | KM1 - Key metrics (at consolidated group level). | Quarterly |  | 7 |  |
|  | KM2 - Key Metrics - TLAC requirements. | Quarterly |  | 8 |  |
| Linkages between financial statements and regulatory exposures | LI1 - Differences between accounting and regulatory scopes of consolidation and mapping of financial statements with regulatory risk categories. | Quarterly |  | 18 |  |
|  | LI2 - Main sources of differences between regulatory exposure amounts and carrying values in financial statements. | Quarterly |  | 19 |  |
|  | LIA - Explanations of differences between accounting and regulatory exposure amounts. | Quarterly |  | 19 |  |
|  | PV1 - Prudential valuation adjustments (PVA). | N/A |  |  |  |
| Composition of capital and TLAC ${ }^{1}$ | CC1 - Composition of regulatory capital. | Quarterly |  | 1-3 |  |
|  | CC2 - Reconciliation of regulatory capital to balance sheet. | Quarterly |  | 5 |  |
|  | CCA - Main features of regulatory capital instruments and of other TLAC-eligible instruments ${ }^{2}$. | Quarterly |  |  |  |
|  | TLAC1 - TLAC composition (at resolution group level). | Quarterly |  | 9 |  |
|  | TLAC2 - Material subgroup entity - creditor ranking at legal entity level. | Quarterly |  | 10 |  |
|  | TLAC3 - Resolution entity - creditor ranking at legal entity level. | Quarterly |  | 11 |  |
| Leverage ratio | LR1 - Summary comparison of accounting assets versus leverage ratio exposure measure. | Quarterly |  | 6 |  |
|  | LR2 - Leverage ratio common disclosure template. | Quarterly |  | 6 |  |
| Credit risk | CRA - General information about credit risk. | Annual |  |  | 79-81, 83-86 |
|  | CR1 - Credit quality of assets. | Quarterly |  | 20-21 |  |
|  | CR2 - Changes in stock of defaulted loans and debt securities ${ }^{4}$. | Quarterly |  |  |  |
|  | CRB - Additional disclosure related to the credit quality of assets a) to d). | Annual |  |  | 87, 147, 154-155, 179 |
|  | CRB - Additional disclosure related to the credit quality of assets - e) Breakdown of exposures by geographical areas, industry and residual maturity ${ }^{4}$. | Quarterly |  | 23-25 |  |


| Topic | Pillar 3 Disclosure Requirements (Continued) |  | Page |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Frequency | SFI Fourth Quarter 2023 | SRD Fourth Quarter 2023 | Annual Report 2023 |
| Credit risk | CRB - Additional disclosure related to the credit quality of assets - f) Amounts of impaired exposures (according to definition used by the bank for accounting purposes) and related allowances and write-offs broken down by geographical areas and industry. | Quarterly | 26-28, 30-32 |  |  |
|  | CRB - Additional disclosure related to the credit quality of assets - g) Ageing analysis of accounting past-due exposures ${ }^{4}$. | Quarterly |  |  | 147, 179 |
|  | CRB - Additional disclosure related to the credit quality of assets - h) Breakdown of restructured exposures between impaired and not impaired exposures. | Annual |  | 20-21 |  |
|  | CRC - Qualitative disclosure requirements related to credit risk mitigation techniques. | Annual |  |  | 87 |
|  | CR3 - Credit risk mitigation techniques - overview. | Quarterly |  | 22 |  |
|  | CRD - Qualitative disclosures on banks' use of external credit ratings under the standardized approach (SA) for credit risk. | Annual |  |  | 86 |
|  | CR4 - Standardized approach - credit risk exposure and Credit Risk Mitigation (CRM) effects. | Quarterly |  | 26-27 |  |
|  | CR5 - Standardized approach - exposures by asset classes and risk weights. | Quarterly |  | 28-32 |  |
|  | CRE - Qualitative disclosures related to IRB models. | Annual |  |  | 79-81, 84-87, 96 |
|  | CR6 - IRB - Credit risk exposures by portfolio and probability of default (PD) range. | Quarterly |  | 33-49 |  |
|  | CR7 - IRB - Effect on RWA of credit derivatives used as CRM techniques. | N/A | Impact is immaterial and has been disclosed in CR3, footnote 3. |  |  |
|  | CR8 - RWA flow statements of credit risk exposures under IRB. | Quarterly |  | 16 |  |
|  | CR9 - IRB - Backtesting of PD per portfolio. | Annual |  | 76-77 |  |
|  | CR10-IRB (specialized lending under the slotting approach). | N/A | Not applicable to TD. |  |  |
| Counterparty credit risk | CCRA - Qualitative disclosure related to CCR. | Annual |  |  | 86-87, 102 |
|  | CCR1 - Analysis of CCR exposure by approach. | Quarterly |  | 50-51 |  |
|  | CCR2 - CVA capital charge. | Quarterly |  | 52 |  |
|  | CCR3 - Standardized approach of CCR exposures by regulatory portfolio and risk weights. | Quarterly |  | 53-54 |  |
|  | CCR4 - IRB - CCR exposures by portfolio and PD scale. | Quarterly |  | 55-61 |  |
|  | CCR5 - Composition of collateral for CCR exposure. | Quarterly |  | 62 |  |
|  | CCR6 - Credit derivatives exposures. | Quarterly |  | 63 |  |
|  | CCR7 - RWA flow statements of CCR exposures under the Internal Model Method (IMM). | N/A | TD does not use IMM. |  |  |
|  | CCR8 - Exposures to central counterparties. | Quarterly |  | 63 |  |


| Topic | Pillar 3 Disclosure Requirements (Continued) |  | Page |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Frequency | SFI Fourth Quarter 2023 | SRD Fourth Quarter 2023 | Annual Report 2023 |
| Securitization | SECA - Qualitative disclosure requirements related to securitization exposures. | Annual |  |  | $\begin{gathered} \hline 68-69,88, \\ 151,181-183 \end{gathered}$ |
|  | SEC1 - Securitization exposures in the banking book. | Quarterly |  | 67-68 |  |
|  | SEC2 - Securitization exposures in the trading book. | Quarterly |  | 69-70 |  |
|  | SEC3 - Securitization exposures in the banking book and associated regulatory capital requirements bank acting as originator or as sponsor. | Quarterly |  | 71-72 |  |
|  | SEC4 - Securitization exposures in the banking book and associated capital requirements - bank acting as investor. | Quarterly |  | 73-74 |  |
| Macroprudential supervisory measures | GSIB1 - Disclosure of G-SIB indicators ${ }^{5}$. | Annual |  |  |  |
|  | CCyB1 - Geographical distribution of credit exposures used in the countercyclical buffer. | Quarterly |  | 12 |  |
| Liquidity | LIQA - Liquidity risk management. | Annual |  |  | 97-101 |
|  | LIQ1 - Liquidity Coverage Ratio (LCR). | Quarterly |  |  | 103 |
|  | LIQ2 - Net Stable Funding Ratio (NSFR). | Quarterly |  |  | 104 |
| Asset encumbrance | ENC - Asset encumbrance. | Quarterly |  |  | 100-101 |
| Market risk ${ }^{4}$ | MRA - General qualitative disclosure requirements related to market risk. |  | TD has deferred these disclosures as allowed per OSFI's Pillar 3 guideline issued April 2017. New market risk disclosures will be reported starting 2024. |  |  |
|  | MRB - Qualitative disclosures for banks using the Internal Models Approach (IMA). |  |  |  |  |
|  | MR1 - Market risk under the standardized approach. |  |  |  |  |
|  | MR2 - Market risk for banks using the IMA. |  |  |  |  |
| Comparison of modelled \& standardized RWA | CMS1 - Comparison of modelled and standardized RWA at risk level. | Quarterly |  | 14 |  |
|  | CMS2 - Comparison of modelled and standardized RWA for credit risk at asset class. | Quarterly |  | 15 |  |
| Operational Risk | ORA - General qualitative information on a bank's operational risk framework. | Annual |  |  | 94-96 |
|  | OR1 - Historical losses. | Annual |  | 78 |  |
|  | OR2 - Business indicator and subcomponents. | Annual |  | 78 |  |
|  | OR3 - Minimum required operational risk capital. | Annual |  | 78 |  |
| Interest Rate Risk in the Banking Book | IRRBB Disclosure. | Annual |  |  | 92-93 |


| Topic | Pillar 3 Disclosure Requirements (Continued) | Page |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Frequency | SFI Fourth Quarter 2023 | SRD Fourth Quarter 2023 | Annual Report 2023 |
| Remuneration ${ }^{7}$ | Remuneration - Table A. | Annual |  |  |  |
|  | REMA - Remuneration policy. | Annual |  |  |  |
|  | REM1 - Remuneration awarded during the financial year. | Annual |  |  |  |
|  | REM2 - Special payments. | Annual |  |  |  |
|  | REM3 - Deferred remuneration. | Annual |  |  |  |

2 CCA is available at https://www.td.com/investor-relations/ir-homepage/regulatory-disclosures/main-features-of-capital-instruments/main-features-of-capital-instruments.jsp.
3 Not applicable
4 Current disclosures in SFI and annual report do not contain any exposures related to the deconsolidated insurance entities, therefore the Pillar 3 requirements are fulfilled based on current disclosure.
5 For GSIB1, refer to the first quarter 2023 RTS
6 Value-at-Risk
7 Remuneration disclosures will be included in the 2023 Proxy Circular

Capital Position - Basel III (CC1)
(\$ millions)
As at
Common Equity Tier 1 Capit
Common shares plus related contributed surplus
Retained earnings
Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1 ${ }^{2}$ )
Common Equity Tier 1 Capital before regulatory adjustments

## Common Equity Tier 1 Captal regulatory adjustments

Prudential valuation adjustments
Goodwill (net of related tax liability)
Intangibles (net of related tax liability)
Deferred tax assets excluding those arising from temporary differences
Cash flow hedge reserve
Shortfall of provisions to expected losses
Securitization gain on sale
Gains and losses due to changes in own credit risk on fair valued liabilities
Defined benefit pension fund net assets (net of related tax liability)
Reciprocal cross holdings in common equity
Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10\% threshold)
Significant investments in the 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)
Mortgage servicing rights (amount above $10 \%$ threshold)
Deferred tax assets arising from temporary differences (amount above $10 \%$ threshold, net of related tax liability)
Amount exceeding the 15\% threshold
of which: significant investments in the common stock of financials
of which: mortgage servicing rights
of which: deferred tax assets arising from temporary differences
Equity investments in funds subject to the fall-back approach
Other deductions or regulatory adjustments to CET1 as determined by OSFI
Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions
Total regulary adjustments to Common Equity Tier 1 Capital
Common Equity Tier 1 Capital
Common Equity Tier 1 Capital with transitional arrangements for ECL provisioning not applied

Directly issued qualifying Additional Tier 1 instruments plus stock surplus
of which: classified as equity under applicable accounting standards
of which: classified as liabilities under applicable accounting standards
Additional Tier 1 instruments issued by subsidiaries and held by third parties
Additional Tier 1 capital instruments before regulatory adjustments

## Additional Tier 1 capital instruments regulatory adjustments

## Investment in own Additional Tier 1 instrument

Reciprocal cross holdings in Additional Tier 1 instruments
Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10\% threshold)
Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation,
net of eligible short positions
Other deductions from Tier 1 capital as determined by OSF
of which: Reverse mortgages
Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions
Total regulatory adjustments to Additional Tier 1 Capital
Additional Tier 1 Capital
Tier 1 Capital
Tier 1 Capital with transitional arrangements for ECL provisioning not applied
Cross referenced to the Reconciliation with Balance Sheet Under Regulatory Scope of Consolidation table on page 5.
${ }^{2}$ Common Equity Tier 1 (CET1).


## Capital Position - Basel III (CC1) (Continued)

## (\$ millions)

Tier 2 capla
Directly issued qualifying Tier 2 instruments plus related stock surplus
ck sur
Collective allowance
Tier 2 Capital before regulatory adjustments
Tier 2 regulatory adjustments
Investments in own Tier 2 instruments
Reciprocal cross holding in Tier 2 instruments and Other TLAC-eligible instruments
Non-significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by global systemically important banks (G-SIBs) and Canadian domestic systemically important banks (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)
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 meets the conditions
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
Other deductions from Tier 2 capital
Total regulatory adjustments to Tier 2 Capital
Tier 2 Capital
Total Capita
Total Capital with transitional arrangements for ECL provisioning not applied
Total risk-weighted assets
Capital Ratios
Common Equity Tier 1 Capital (as percentage of RWA)
Common Equity Tier 1 Capital Ratio with transitional arrangements for ECL provisioning not applied
Tier 1 Capital Ratio
atio with transitional arrangements for ECL provisioning not applied
otal Capital (as percentage of RWA)
 expressed as percentage of RWA ${ }^{2,3}$
of which: capital conservation buffer requiremen
of which: bank-specific countercyclical buffer requirement
of which: G-SIB buffer requirement
of which: D-SIB buffer requirement
Common Equity Tier 1 available to meet buffers (as percentage of RWA)

## OSFI target (minimum plus conservation buffer plus D-SIB surcharge (if applicable)) ${ }^{6}$

Common Equity Tier 1 target ratio
Tier 1 target ratio
Total Capital target ratio
Cross referenced to the Reconciliation with Balance Sheet Under Regulatory Scope of Consolidation table on page 5.
${ }^{2}$ The minimum CET1 requirement prior to the buffers is $4.5 \%$.
${ }^{3}$ The Financial Stability Board (FSB), in consultation with BCBS and national authorities, has identified the 2022 list of G-SIBs, using 2021 fiscal year-end data. The Bank was identified as a G-SIB on November 22,2019 .
${ }_{5}^{4}$ The countercyclical buffer surcharge is in effect.
${ }^{5}$ Common equity capital G-SIB surcharge is in effect
${ }^{6}$ Reflects Pillar 1 targets and does not include Pillar 2 domestic stability buffer. Effective February 1, 2023, the buffer is $3 \%$.

## Capital Position - Basel III (CC1) (Continued)

## (\$ millions, except as noted)

As at
Amounts below the thresholds for deduction (before risk weighting)
Non-significant investments in the capital and Other TLAC-eligible instruments of other financials entities
Significant investments in the common stock of financial
Mortgage servicing rights (net of related tax liability)
Deferred tax assets arising from temporary differences (net of related tax liability)
Applicable caps on the inclusion of allowances in Tier
Allowance eligible for inclusion in Tier 2 in respect of exposures subject to standardized approach (prior to application of cap)
under standardized approach
Allowance eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings-based approach (prior to application of cap) Cap on inclusion of allowances in Tier 2 under internal ratings-based approach

## Capital Ratios for significant bank subsidiaries <br> TD Bank, National Association (TD Bank, N.A.)

Common Equity Tier 1 Capital
Tier 1 Capital
Total Capital
TD Mortgage Corporation
Common Equity Tier 1 Capital
Tier 1 Capital
Total Capital
${ }^{7}$ On a stand-alone basis, TD Bank, N.A. reports regulatory capital to the Office of the Comptroller of the Currency on calendar quarter ends.


Flow Statement for Regulatory Capital ${ }^{1}$

## (\$ millions)

## Common Equity Tier 1

Balance at beginning of period
New capital issues
Redeemed capital ${ }^{2}$
Gross dividends (deductions)
Shares issued in lieu of dividends (add back)
Profit attributable to shareholders of the parent company ${ }^{3}$
Removal of own credit spread (net of tax)
Movements in other comprehensive incom
Currency translation differences
Available-for-sale investments
Financial assets at fair value through other comprehensive income
Other
Goodwill and other intangible assets (deduction, net of related tax liability)
Other, including regulatory adjustments and transitional arrangements
Deferred tax assets that rely on future profitability (excluding those arising from temporary differences) Prudential valuation adjustments
Other
Balance at end of period
Additional Tier 1 Capita
Balance at beginning of period
New additional Tier 1 eligible capital issues
Redeemed capital
Other, including regulatory adjustments and transitional arrangements
Balance at end of period
Total Tier 1 Capital

## Tier 2 Capital

Balance at beginning of period
New Tier 2 eligible capital issues
Redeemed capital
Amortization adjustments
Allowable collective allowance
Other, including regulatory adjustments and transitional arrangements
Balance at end of period
Total Regulatory Capita

The statement is based on the applicable regulatory rules in force at the period end.
${ }^{2}$ Represents impact of shares repurchased for cancellation
${ }_{3}^{3}$ Profit attributable to shareholders of the parent company reconciles to the income statement.

| LINE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\#$ | Q4 | Q32 | Q2 | Q1 | Q4 |


| 1 | \$ | 82,953 | \$ | 84,328 | \$ | 82,328 | \$ | 83,671 | \$ | 73,975 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 |  | 6 |  | 6 |  | 45 |  | 26 |  | 23 |
| 3 |  | $(3,104)$ |  | $(1,181)$ |  | - |  | - |  | - |
| 4 |  | $(1,920)$ |  | $(1,832)$ |  | $(1,964)$ |  | $(1,829)$ |  | $(1,720)$ |
| 5 |  | 127 |  | 175 |  | 713 |  | 705 |  | 596 |
| 6 |  | 2,886 |  | 2,963 |  | 3,351 |  | 1,582 |  | 6,671 |
| 7 |  | (150) |  | 65 |  | (142) |  | 350 |  | (154) |
| 8 |  | 3,162 |  | $(1,789)$ |  | 1,296 |  | $(2,040)$ |  | 4,335 |
| 9 |  | n/a |  | n/a |  | n/a |  | n/a |  | n/a |
| 10 |  | (370) |  | 94 |  | 61 |  | 3 |  | (209) |
| 11 |  | (322) |  | (240) |  | 473 |  | 222 |  | (688) |
| 12 |  | (844) |  | 326 |  | $(1,245)$ |  | 331 |  | $(1,037)$ |
| 13 |  | (93) |  | (18) |  | (11) |  | (2) |  | 19 |
| 14 |  | - |  | - |  | - |  | - |  | - |
| 15 |  | (14) |  | 56 |  | (577) |  | (691) |  | 1,860 |
| 16 |  | 82,317 |  | 82,953 |  | 84,328 |  | 82,328 |  | 83,671 |
| 17 |  | 10,888 |  | 10,783 |  | 10,758 |  | 10,774 |  | 6,759 |
| 18 |  | - |  | - |  | - |  | - |  | 3,903 |
| 19 |  | (400) |  | - |  | - |  | - |  | - |
| 20 |  | (53) |  | 105 |  | 25 |  | (16) |  | 112 |
| 21 |  | 10,435 |  | 10,888 |  | 10,783 |  | 10,758 |  | 10,774 |
| 22 |  | 92,752 |  | 93,841 |  | 95,111 |  | 93,086 |  | 94,445 |
| 23 |  | 12,738 |  | 12,849 |  | 12,946 |  | 12,730 |  | 12,448 |
| 24 |  | - |  | - |  | - |  | - |  | - |
| 25 |  | $(1,750)$ |  | - |  | - |  | - |  | - |
| 26 |  | - |  | - |  | - |  | - |  | - |
| 27 |  | (186) |  | 7 |  | (122) |  | 247 |  | 53 |
| 28 |  | 94 |  | (118) |  | 25 |  | (31) |  | 229 |
| 29 |  | 10,896 |  | 12,738 |  | 12,849 |  | 12,946 |  | 12,730 |
| 30 | \$ | 103,648 | \$ | 106,579 | \$ | 107,960 | \$ | 106,032 | \$ | 107,175 |

Reconciliation with Balance Sheet Under Regulatory Scope of Consolidation (CC2)
$\underset{\substack{\text { As at }}}{\substack{\text { ( } \\ \text { millions }}}$

Cash and due from banks
Cash and due from banks
Interest-bearing deposits with banks
Trading loans, securities, and other
Non-trading financial assets at fair value through profit or loss
Financial asseets at atirated at fair value through profit or loss
Equity investments in funds subject to the fompl-backsonive income
on-Significant investments in financials (excluding Schwab)
Non-significant investments exceeding regulatory thresholdd - Additional Tier 1
Non-significant investments exceeding regulatory thresholds - Tier 2
Non-significant investments previously designated for the 5\% threshold but no longer meets the conditions
Non-significant investments s reviously designated for the $5 \%$ thre
Non-significant investments not exceeding regulatory thresholds
Debt securities at amortized cost, net of allowance for credit losses
Securities
Loans
Allowance for loan losses
Eligible allowance reflected in Tier 2 regulatory capita
Shorffall of allowance to expected loss
Allowances not reflected in regulatory cap
Other
Investment in Schwab
Non-significant investments exceeding regulatory thresholds
Non-significant investments not exceding
Noonvwill
Other intangibles
Other intangibles ( M
Deferred tax assets
Deferred tax assets (DTA) excluding those arising from temporary differences
DTA's (net of associated deferred tax liabiities (DTL) realizable through net operating loss (NOL) carryback
DTA's (net of associated DTL's) arising from temporary differences but not realizable throug
(Ls) arising from temporary differences but not realizable through NOL carryback
Significant investments in financi
Significant investments exceediing regulatory thresholds
Significant investments not exceeding regulatory threshol
Defined pension benefits
Other Assets
TOTAL AsSETS
LIABILITIES AND EQUITY
Trading deposits
Securitization liabilities at fair val
Financial liabilities designated at fair value through profit or loss
Deposits
Other
Other
Deferred t tax liabilities
Goodwill
Goodwill
Intangible assets (excluding mortgage servicing rights)
Intangible assets (excluding mortgage
Defined benefit pension fund assets
Dther deferrered tax liabilities (Cas
Other DTA/DTL adjustments ${ }^{4}$
Other liabilities
Subordinated notes and debentures
Directly issued qualifying Tier 2 instruments
Regulatory capital a mortizzation of maturing debentures
Subordinated notes not allowed for regulatory capita
Liabilities
Common Share
Preferred Shares and other equity instruments
Directly issued qualifing Additional Tier 1 instrument
Preferred shares not allowed for regulatory capital
Treasury Shares - Common
Treasury Shares - Preferred
Treasury Shares - non-viability contingent capital (NVCC) Preferred Shares
Contributed Surplus
Contributed surplus - Common Shares
Contributed surplus - Preferred Shares
Retained Earnings
Accumulated other comprehensive income (AOCI)
Cash flow hedges requiring derecognition
TOTAL LIABILITIES AND EQUITY

${ }^{1}$ As per Balance Sheet on page 15 in the Supplemental Financial Information Package. $\qquad$ Legal entities excluded from the regulatory scope of consolidation included the following insurance subsidiaries: Meloche Monnex Inc. (consolidated), TD Life Insurance Company. TD Reinsurance (Barbados) Inc., and Cowen In
and total equity of $\$ 2.9$ billion, of which $\$ 350$ million is deducted from additional Tier 1 , and $\$ 160$ million is deducted from Tier 2 Capital. Cross referenced (R, W) respectively, to the Capital Position - Basel III on pages 1 and 2 .
Cross referenced to the current period on the Capital Position - Basel III on pages 1 to 3
${ }_{4}^{3}$ Cross referenced to the current period on the Capital Position - Base IIII on pages 1 to 3 .
This adjustment is related to deferred tax assets/liabilities netted for financial accounting purposes.

## Leverage Ratio

## (\$ millions, except as noted)

As at

## Summary comparison of accounting assets vs. leverage ratio exposure measure (LR1)

Total consolidated assets as per published financial statements
Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes

> outside the scope of regulatory consolidation

Adjustments for fiduciary assots leverage ratio exposure measure
Adjustments for derivative financial instruments
Adjustment for securities financing transactions (SFTs)
Adjustment for off-balance sheet items (credit equivalent amounts)
Other adjustments
Leverage Ratio Exposure

## Leverage Ratio Common Disclosure Template (LR2)

## On-balance sheet exposures

On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral)
Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting
framework
Deductions of receivables assets for cash variation margin provided in derivative transactions
Less: Asset amounts deducted in determining Tier 1 Capital
Total on-balance sheet exposures (excluding derivatives and SFTs)
Derivative exposures
Replacement cost associated with all derivative transactions (such as net of eligible cash variation margin)
Add-on amounts for potential future exposure (PFE) associated with all derivative transactions
Exempted central counterparty (CCP)-leg of client cleared trade exposures
Adjusted effective notional amount of written credit derivatives
Adjusted effective notional offsets and add-on deductions for written credit derivatives
Total derivative exposures
Securities financing transaction exposures
Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions payables and cash receivables of gross SFT assets
Counterparty credit risk (CCR) exposure for SFTs
Agent transaction exposures
Total securities financing transaction exposures
Other off-balance sheet exposures
Off-balance sheet exposure at gross notional amount
Adjustments for conversion to credit equivalent amounts
Off-balance sheet items
Capital on total exposures
Tier 1 Capital - "All-in" basis (line 43 on page 1)
Tier 1 Capital with transitional arrangements for ECL provisioning not applied
Total Exposures (sum of lines 14, 20, 25 and 28) - All-in basis
Leverage Ratio
Leverage Ratio with transitional arrangements for ECL provisioning not applied
$\square$

| \$ | 1,957,024 | \$ | 1,887,075 | \$ | 1,926,452 | \$ | 1,928,284 | \$ | 1,917,528 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(8,897)$ |  | $(8,445)$ |  | $(8,028)$ |  | $(7,821)$ |  | $(7,713)$ |
|  | $(1,397)$ |  | $(1,099)$ |  | $(1,396)$ |  | $(1,257)$ |  | (959) |
|  | - |  | - |  | - |  | - |  | - |
|  | 6,088 |  | 14,525 |  | 12,246 |  | 9,996 |  | $(12,822)$ |
|  | $(24,597)$ |  | $(23,230)$ |  | $(21,438)$ |  | $(24,003)$ |  | $(18,349)$ |
|  | 223,820 |  | 217,908 |  | 216,771 |  | 206,613 |  | 200,941 |
|  | $(39,480)$ |  | $(33,566)$ |  | $(41,063)$ |  | $(153,986)$ |  | $(144,894)$ |
| \$ | 2,112,561 | \$ | 2,053,168 | \$ | 2,083,544 | \$ | 1,957,826 | \$ | 1,933,732 |


| \$ | 1,634,505 | \$ | 1,589,965 |  | \$ | 1,623,385 |  | \$ | 1,534,114 |  | \$ | 1,516,770 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | (9680) |  |  | (8369) |  |  | (9,486) |  |  |  |  |
|  | $(8,823)$ |  | $(9,680)$ $(18,594)$ |  |  | $(8,369)$ |  |  | $\begin{array}{r} (9,486) \\ (18,606) \end{array}$ |  |  | $(11,552)$ |  |
|  |  |  |  |  |  |  |  |  | $(18,606)$ |  |  |  |  |
|  | 1,606,707 |  | 1,561,691 |  |  | 1,594,307 |  |  | 1,506,022 |  |  | 1,488,370 |  |
|  | 36,218 |  | 32,475 |  |  | 34,387 |  |  | 35,374 |  |  | 41,542 |  |
|  | 58,628 |  | 55,505 |  |  | 53,967 |  |  | 56,417 |  |  | 54,534 |  |
|  | - |  | - |  |  | - |  |  | - |  |  | - |  |
|  | 8,567 |  | 8,782 |  |  | 8,786 |  |  | 9,461 |  |  | 7,816 |  |
|  | $(1,115)$ |  | $(1,479)$ |  |  | $(1,312)$ |  |  | $(2,422)$ |  |  | $(1,289)$ |  |
|  | 102,298 |  | 95,283 |  |  | 95,828 |  |  | 98,830 |  |  | 102,603 |  |
|  | 204,333 |  | 201,517 |  |  | 198,074 |  |  | 170,365 |  |  | 160,167 |  |
|  | $(28,730)$ |  | $(27,728)$ |  |  | $(25,589)$ |  |  | $(27,724)$ |  |  | $(22,464)$ |  |
|  | 4,133 |  | 4,497 |  |  | 4,153 |  |  | 3,720 |  |  | 4,115 |  |
|  | - |  | - |  |  | - |  |  | - |  |  | - |  |
|  | 179,736 |  | 178,286 |  |  | 176,638 |  |  | 146,361 |  |  | 141,818 |  |
|  | 770,427 |  | $\begin{array}{r} 763,318 \\ (545,410) \end{array}$ |  |  | $\begin{array}{r} 756,455 \\ (539,684) \end{array}$ |  |  | $\begin{array}{r} 711,041 \\ (504,428) \\ \hline \end{array}$ |  |  | $\begin{array}{r} 697,807 \\ (496,866) \end{array}$ |  |
|  | 223,820 |  | 217,908 |  |  | 216,771 |  |  | 206,613 |  |  | 200,941 |  |
|  | 92,752 |  | 93,841 |  |  | 95,111 |  |  | 93,086 |  |  | 94,445 |  |
|  | n/a |  | n/a |  |  | n/a |  |  | n/a |  |  | 94,034 |  |
| \$ | 2,112,561 | \$ | 2,053,168 |  | \$ | 2,083,544 |  | \$ | 1,957,826 |  | \$ | 1,933,732 |  |
|  | 4.4 \% |  | 4.6 | \% |  | 4.6 | \% |  | 4.8 | \% |  | 4.9 |  |
|  | n/a |  | n/a |  |  | n/a |  |  | n/a |  |  | 4.9 |  |

Key Metrics - Consolidated Group Level (KM1)
(\$ millions, except as noted)

Available capital (amounts)
Common Equity Tier 1 (CET1)
Tier 1
Total capital
Risk-weighted assets (amounts)
Total risk-weighted assets (RWA)
Total RWA (pre-floor)
Risk-based capital ratios as a percentage of RWA
CET1 ratio
CET1 ratio (pre-floor)
Tier 1 ratio
Tier 1 ratio (pre-floor)
Total capital ratio
Total capital ratio (pre-floor)
Additional CET1 buffer requirements as a percentage of RWA
Capital conservation buffer requirement ( $2.5 \%$ from 2019)
Countercyclical buffer requirement
Bank G-SIB and/or D-SIB additional requirements
Total of bank CET1 specific buffer requirements
CET1 available after meeting the bank's minimum capital requirements Basel III Leverage ratio
Total Basel III leverage ratio exposure measure
Basel III leverage ratio

| $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |
| :---: | :---: | :---: | :---: |
| 1 | \$ | 82,317 |  |
| 2 |  | 92,752 |  |
| 3 |  | 103,648 |  |
| 4 |  | 571,161 |  |
| 4 a |  | 571,161 |  |
| 5 |  | 14.4 | \% |
| 5b |  | 14.4 |  |
| 6 |  | 16.2 |  |
| 6 b |  | 16.2 |  |
| 7 |  | 18.1 |  |
| 7b |  | 18.1 |  |
| 8 |  | 2.5 |  |
| 9 |  | - |  |
| 10 |  | 1.0 |  |
| 11 |  | 3.5 |  |
| 12 |  | 9.8 |  |
| 13 | \$ | 2,112,561 |  |
| 14 |  | 4.4 | \% |

## Key Metrics - TLAC Requirements (KM2)

## (\$ millions, except as noted)

## Resolution group 1

Total loss absorbing capacity (TLAC) available
TLAC available with transitional arrangements for ECL provisioning not applied ${ }^{1}$
Total RWA at the level of the resolution group
TLAC ratio: TLAC as a percentage of RWA (row $1 /$ row 2 ) $\%$
TLAC ratio: TLAC as a percentage of RWA (row 1 a / row 2) (\%) available with transitional arrangements for ECL provisioning not applied
Leverage ratio exposure measure at the level of the resolution group
TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1 / row 4) \%
TLAC Leverage Ratio. TLAC as a percentage of leverage ratio exposure measure with transition arrangements for ECL provisioning not applied (row 1a / row 4) \%
Does the subordination exemption in the antepenultimate paragraph of Section 11 of the FSB TLAC
Term Sheet apply?
Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?
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 (\%)

| $\underset{\#}{\text { LINE }}$ | 2023 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Q4 |  |  | Q3 | Q2 |  |  | Q1 |  | Q4 |  |  |  |
| 1 | \$ | 187,037 | \$ | 190,730 | \$ | 188,127 |  | \$ | 194,443 |  | \$ | 181,871 |  |
| 1 a |  | n/a |  | n/a |  | $n / a$ |  |  | n/a |  |  | 181,871 |  |
| 2 |  | 571,161 |  | 544,880 |  | 549,398 |  |  | 531,644 |  |  | 517,048 |  |
| 3 |  | 32.7 \% |  | 35.0 |  | 34.2 | \% |  | 36.6 | \% |  | 35.2 | \% |
| 3 a |  | n/a |  | n/a |  | $n / a$ |  |  | n/a |  |  | 35.2 |  |
| 4 | \$ | 2,112,561 | \$ | 2,053,168 | \$ | 2,083,544 |  | \$ | 1,957,826 |  | \$ | 1,933,732 |  |
| 5 |  | 8.9 \% |  | 9.3 |  | 9.0 | \% |  | 9.9 | \% |  | 9.4 |  |
| 5a |  | n/a |  | n/a |  | $n / a$ |  |  | n/a |  |  | 9.4 |  |
| 6a |  | Yes |  | Yes |  | Yes |  |  | Yes |  |  | Yes |  |
| 6 b |  | No |  | No |  | No |  |  | No |  |  | No |  |
| 6 c |  | n/a |  | n/a |  | n/a |  |  | n/a |  |  | n/a |  |

 Effective Q1 2023, no longer applicable.

## TLAC Composition (TLAC1)

## (\$ millions, except as noted)

## Regulatory capital elements of TLAC and adjustments

Common Equity Tier 1 capital (CET1)
Additional Tier 1 capital (AT1) before TLAC adjustments
AT1 ineligible as TLAC as issued out of subsidiaries to third parties
Other adjustments
AT1 instruments eligible under the TLAC framework (sum of lines 2 to 4 ) Tier 2 capital (T2) before TLAC adjustments
Amortized portion of T2 instruments where remaining maturity > 1 year
T2 capital ineligible as TLAC as issued out of subsidiaries to third parties Other adjustments
T2 instruments eligible under the TLAC framework (sum of lines 6 to 9 )
TLAC arising from regulatory capital (sum of lines 1,5 and 10)
Non-regulatory capital elements of TLAC
External TLAC instruments issued directly by the bank and subordinated to excluded liabilities
External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements
Of which: amount eligible as TLAC after application of the caps
External TLAC instruments issued by funding vehicles prior to January 1, 2022
Eligible ex ante commitments to recapitalize a G-SIB in resolution
TLAC arising from non-regulatory capital instruments before adjustments (sum of lines 12, 13, 15 and 16)
Non-regulatory capital elements of TLAC: adjustments
TLAC before deductions (sum of lines 11 and 17)
Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs)
Deduction of investments in own other TLAC liabilities
Other adjustments to TLAC
TLAC available after deductions (sum of lines 18 to 21)
Risk-weighted assets and leverage exposure measure for TLAC purposes
Total risk-weighted assets adjusted as permitted under the TLAC regime
Leverage exposure measure
TLAC ratios and buffers
TLAC Ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime) (line 22/line 23)
TLAC Leverage Ratio (as a percentage of leverage exposure) (line 22/line 24) CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements
Institution-specific buffer (capital conservation buffer plus countercyclical buffer plus higher loss absorbency, expressed as a percentage of risk-weighted assets)
Of which: capital conservation buffer
Of which: bank specific countercyclical buffer
Of which: D-SIB / G-SIB buffer

Multiple point of entry (MPE); Single point of entry (SPE).


Material Subgroup Entity - Creditor Ranking at Legal Entity Level (G-SIBS only) (TLAC2) ${ }^{1,2}$

 2 OSFI has permitted disclosure to commence as of the fourth quarter of 2023, aligning with the timing of the US Federal Reserve TLAC disclosure requirements earlier this year
 ject to such conversion.
Completion of this column is not required by OSFI at this time.

Creditor Ranking at Legal Entity Level (TLAC3)

Description of creditor ranking (free text)
Total capital and liabilities net of credit risk mitigation Subset of row 2 that are excluded liabilities
Total capital and liabilities less excluded liabilities (row 2 minus row 3)
Subset of row 4 that are potentially eligible as TLAC
Subset of row 5 with 1 year $\leq$ residual maturity < 2 years
Subset of row 5 with 2 years $\leq$ residual maturity < 5 years
Subset of row 5 with 5 years $\leq$ residual maturity < 10 years
Subset of row 5 with residual maturity $\geq 10$ years, but excluding
perpetual securities
Subset of row 5 that is perpetual securities

Description of creditor ranking (free text)
Total capital and liabilities net of credit risk mitigation Subset of row 12 that are excluded liabilities
Total capital and liabilities less excluded liabilities (row 12 minus row 13) Subset of row 14 that are potentially eligible as TLAC
Subset of row 15 with 1 year $\leq$ residual maturity < 2 year
Subset of row 15 with 2 years $\leq$ residual maturity $<5$ years
Subset of row 15 with 5 years $\leq$ residual maturity < 10 years Subset of row 15 with residual maturity $\geq 10$ years, but excluding
perpetual securities
Subset of row 15 that is perpetual securities

Description of creditor ranking (free text)
Total capital and liabilities net of credit risk mitigation Subset of row 22 that are excluded liabilities
Total capital and liabilities less excluded liabilities (row 22 minus row 23) Subset of row 24 that are potentially eligible as TLAC Subset of row 25 with 1 year $\leq$ residual maturity < 2 years Subset of row 25 with 2 years $\leq$ residual maturity $<5$ years Subset of row 25 with 5 years $\leq$ residual maturity < 10 years Subset of row 25 with residual maturity $\geq 10$ years, but excluding perpetual securities
Subset of row 25 that is perpetual securities

| $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q3 } \end{gathered}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Creditor Ranking |  |  |  |  |  | Creditor Ranking |  |  |  |  |  |
|  | 1 | 2 | 3 | 4 | 5 | Sum of 1 to 5 | 1 | 2 |  | 4 | 5 | Sum of 1 to 5 |
|  | (most junior) |  |  | (most senior) |  |  | (most junior) |  | (most senior) |  |  |  |
| 1 | Common Shares | $\begin{array}{r} \hline \text { Preferred } \\ \text { shares } \\ \text { \& Tier } 1 \\ \text { notes } \end{array}$ | Subordinated debts | Bail-in debts ${ }^{1}$ | Other liabilities ${ }^{2}$ | Sum | Common Shares | $\begin{array}{r} \hline \text { Preferred } \\ \text { shares } \\ \text { \& Tier } 1 \\ \text { notes } \\ \hline \end{array}$ | Subordinated debts | Bail-in debts ${ }^{1}$ | Other liabilities ${ }^{2}$ | Sum |
| 2 | 25,434 | 10,853 | 9,779 | 104,675 | - | 150,741 | 25,833 | 11,253 | 11,425 | 100,872 | - | 149,383 |
| 3 | 85 | 65 | 215 | 20,216 | - | 20,581 | 16 | 11 | 218 | 15,764 | - | 16,009 |
| 4 | 25,349 | 10,788 | 9,564 | 84,459 | - | 130,160 | 25,817 | 11,242 | 11,207 | 85,108 | - | 133,374 |
| 5 | 25,349 | 10,788 | 9,564 | 84,459 | - | 130,160 | 25,817 | 11,242 | 11,207 | 85,108 | - | 133,374 |
| 6 | - | - | - | 22,065 | - | 22,065 | - | - | - | 21,040 | - | 21,040 |
| 7 | - | - | - | 46,544 | - | 46,544 | - | - | - | 46,822 | - | 46,822 |
| 8 | - | - | 9,564 | 15,825 | - | 25,389 | - | - | 11,207 | 17,226 | - | 28,433 |
| 9 | - | - | - | 25 | - | 25 | - | - | - | 20 | - | 20 |
| 10 | 25,349 | 10,788 | - | - | - | 36,137 | 25,817 | 11,242 | - | - | - | 37,059 |
|  | $\begin{gathered} 2023 \\ \text { Q2 } \end{gathered}$ |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q1 } \end{gathered}$ |  |  |  |  |  |
|  | Creditor Ranking |  |  |  |  |  | Creditor Ranking |  |  |  |  |  |
|  | 1 | 2 | 3 | 4 | 5 | Sum of 1 to 5 | 1 | 2 |  | 4 | 5 | Sum of 1 to 5 |
|  | (most junior) |  |  | (most senior) |  |  | (most junior) |  | Subordinated debts | (most senior) |  |  |
| 11 | Common Shares | $\begin{array}{r} \text { Preferred } \\ \text { shares } \\ \text { \& Tier } 1 \\ \text { notes } \end{array}$ | Subordinated debts | Bail-in debts ${ }^{1}$ | $\begin{gathered} \text { Other } \\ \text { liabilities }^{2} \end{gathered}$ | Sum | Common Shares | Preferred shares \& Tier 1 notes |  | Bail-in debts ${ }^{1}$ | $\begin{array}{r} \text { Other } \\ \text { liabilities }^{2} \end{array}$ | Sum |
| 12 | 25,852 | 11,253 | 11,479 | 98,316 | - | 146,900 | 25,094 | 11,253 | 11,444 | 96,319 | - | 144,110 |
| 13 | 117 | 10 | 204 | 17,540 | - | 17,871 | 121 | 9 | 201 | 7,161 | - | 7,492 |
| 14 | 25,735 | 11,243 | 11,275 | 80,776 | - | 129,029 | 24,973 | 11,244 | 11,243 | 89,158 | - | 136,618 |
| 15 | 25,735 | 11,243 | 11,275 | 80,776 | - | 129,029 | 24,973 | 11,244 | 11,243 | 89,158 | - | 136,618 |
| 16 | - | - | - | 20,567 | - | 20,567 | - | - | - | 25,702 | - | 25,702 |
| 17 | - | - | - | 43,000 | - | 43,000 | - | - | - | 44,820 | - | 44,820 |
| 18 | - | - | 11,275 | 17,189 | - | 28,464 | - | - | 11,243 | 18,616 | - | 29,859 |
| 19 | - | - | - | 20 | - | 20 | - | - | - | 20 | - | 20 |
| 20 | 25,735 | 11,243 | - | - | - | 36,978 | 24,973 | 11,244 | - | - | - | 36,217 |


| 2022 <br> Q4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Creditor Ranking |  |  |  |  |
| 1 | 2 | 4 | 5 | Sum of 1 to 5 |
| (most junior) |  |  |  | (most senior) |

 resolution powers whereas Other Liabilities are not subject to such conversion
${ }_{2}$ Completion of this column is not required by OSFI at this time.

Geographical Distribution of Credit Exposures for the Calculation of the Countercyclical Capital Buffer (CCyB1)

| (\$ millions, except as noted) As at | $\underset{\#}{\mathrm{LINE}} \underset{ }{\mid}$ | $\begin{gathered} 2223 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CCyB rate |  |  | ed in CCyB calculation | Bank-specific CCyB rate |  | CCyB amount |
| By Country |  |  |  |  |  |  |  |  |
| Australia | 1 | 1.00 | \% \$ |  | 89 |  |  |  |
| France | 2 | 0.50 |  |  | 127 |  |  |  |
| Germany | 3 | 0.75 |  |  | 1,423 |  |  |  |
| Luxembourg | 4 | 0.50 |  |  | 172 |  |  |  |
| Netherlands | 5 | 1.00 |  |  | 168 |  |  |  |
| United Kingdom | 6 | 2.00 |  |  | 1,700 |  |  |  |
| Norway | 7 | 2.50 |  |  | 6 |  |  |  |
| Sum of lines 1 to 7 | 8 |  | \$ | \$ | 3,685 |  |  |  |
| Total ${ }^{1}$ | 9 |  | \$ | \$ | 393,132 | 0.01 |  | 6 |

Total RWA for private sector credit exposures across all jurisdictions to which the bank is exposed, including jurisdictions with no countercyclical capital buffer rate or with a countercyclical capital buffer rate set at zero

Overview of Risk-Weighted Assets (OV1)

## (\$ millions)

As at

Credit risk (excluding counterparty credit risk) (CCR) Of which: standardized approach (SA) ${ }^{3}$
Of which: foundation internal ratings-based (FIRB) approach
Of which: supervisory slotting approach
Of which: advanced internal ratings-based (AIRB) approach Counterparty credit risk
Of which: standardized approach for counterparty credit risk (SA-CCR) Of which: internal model method (IMM)
Of which: other $C C R^{4}$
Credit valuation adjustment (CVA)
Equity positions in banking book under market-based approach
Equity investments in funds - look-through approach
Equity investments in funds - mandate-based approach
Equity investments in funds - fall-back approach ${ }^{6}$

## ettlement risk

Securitization exposures in banking book
Of which: securitization internal ratings-based approach (SEC-IRBA)
Of which: securitization external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA)
Of which: securitization standardized approach (SEC-SA)
Market risk
Of which: standardized approach (SA)
Of which: internal model approaches (IMA)
Capital charge for switch between trading book and banking book Operational risk
Amounts below the thresholds for deduction (subject to $250 \%$ risk weight) Output floor applied (\%)
Floor adjustment (before application of transitional cap)
Floor adjustment (after application of transitional cap) ${ }^{7}$
Total (lines $1+6+10+11+12+13+14+15+16+20+23+24+25+28)$

| $\underset{\#}{\text { LINE }}$ | Risk-Weighted Assets (RWA) |  |  |  |  |  |  |  |  |  | Minimum capital requirements |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { OSFI } \\ \text { Templat } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Q4 |  | Q3 |  | 2023 |  | Q1 |  | $\begin{gathered} 2022 \\ \text { Q4 } \end{gathered}$ |  | Q4 |  | Q3 ${ }^{2}$ |  | 23 |  | Q1 |  | $\begin{gathered} 2022 \\ \text { Q4 } \end{gathered}$ |  |  |
|  |  |  |  | Q2 |  | Q2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | \$ | 412,057 |  |  | \$ | 389,987 | \$ | 389,154 | \$ | 373,596 | \$ | 357,448 | \$ | 32,965 | \$ | 31,199 | \$ | 31,132 | \$ | 29,888 | \$ | 28,596 | 1 |
| 2 |  | 56,251 |  | 53,383 |  | 54,045 |  | 33,548 |  | 33,157 |  | 4,500 |  | 4,271 |  | 4,324 |  | 2,684 |  | 2,653 | 2 |
| 3 |  | 86,304 |  | 82,140 |  | 79,490 |  | $n / a$ |  | n/a |  | 6,905 |  | 6,571 |  | 6,359 |  | n/a |  | n/a | 3 |
| 4 |  | - |  | - |  | - |  | n/a |  | n/a |  | - |  | - |  | - |  | n/a |  | n/a | 4 |
| 5 |  | 269,502 |  | 254,464 |  | 255,619 |  | 340,048 |  | 324,291 |  | 21,560 |  | 20,357 |  | 20,449 |  | 27,204 |  | 25,943 | 5 |
| 6 |  | 17,158 |  | 15,841 |  | 16,005 |  | 18,680 |  | 19,151 |  | 1,373 |  | 1,267 |  | 1,280 |  | 1,494 |  | 1,532 | 6 |
| 7 |  | 10,769 |  | 9,654 |  | 9,930 |  | 8,328 |  | 8,685 |  | 862 |  | 772 |  | 794 |  | 666 |  | 695 | 7 |
| 8 |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - | 8 |
| 9 |  | 6,389 |  | 6,187 |  | 6,075 |  | 10,352 |  | 10,466 |  | 511 |  | 495 |  | 486 |  | 828 |  | 837 | 9 |
| 10 |  | 8,381 |  | 6,754 |  | 6,659 |  | n/a |  | n/a |  | 670 |  | 540 |  | 533 |  | n/a |  | n/a | 10 |
| 11 |  | n/a |  | n/a |  | n/a |  | 24,635 |  | 24,851 |  | n/a |  | n/a |  | n/a |  | 1,971 |  | 1,988 | 7 |
| 12 |  | 2,848 |  | 2,985 |  | 3,094 |  | 2,385 |  | 1,876 |  | 228 |  | 239 |  | 248 |  | 191 |  | 150 | 11 |
| 13 |  | 424 |  | 400 |  | 413 |  | 310 |  | 383 |  | 34 |  | 32 |  | 33 |  | 25 |  | 31 | 12 |
| 14 |  | n/a |  | n/a |  | n/a |  | 491 |  | 1,044 |  | n/a |  | n/a |  | n/a |  | 39 |  | 84 | 10 |
| 15 |  | 250 |  | 218 |  | 253 |  | 49 |  | 98 |  | 20 |  | 17 |  | 20 |  | 4 |  | 8 | 13 |
| 16 |  | 16,652 |  | 16,445 |  | 16,916 |  | 17,532 |  | 17,205 |  | 1,332 |  | 1,316 |  | 1,353 |  | 1,403 |  | 1,376 | 14 |
| 17 |  | 2,404 |  | 2,450 |  | 2,577 |  | 1,327 |  | 1,015 |  | 192 |  | 196 |  | 206 |  | 106 |  | 81 | 15 |
| 18 |  | 14,167 |  | 13,913 |  | 14,219 |  | 16,035 |  | 16,050 |  | 1,134 |  | 1,113 |  | 1,138 |  | 1,283 |  | 1,284 | 16 |
| 19 |  | 81 |  | 82 |  | 120 |  | 170 |  | 140 |  | 6 |  | 7 |  | 9 |  | 14 |  | 11 | 17 |
| 20 |  | 16,952 |  | 16,911 |  | 21,777 |  | 19,554 |  | 22,913 |  | 1,356 |  | 1,353 |  | 1,742 |  | 1,564 |  | 1,833 | 18 |
| 21 |  | 2,608 |  | 2,336 |  | 6,232 |  | 2,806 |  | 2,289 |  | 209 |  | 187 |  | 499 |  | 224 |  | 183 | 19 |
| 22 |  | 14,344 |  | 14,575 |  | 15,545 |  | 16,748 |  | 20,624 |  | 1,147 |  | 1,166 |  | 1,243 |  | 1,340 |  | 1,650 | 20 |
| 23 |  | - |  | - |  | - |  | n/a |  | n/a |  | - |  | - |  | - |  | n/a |  | n/a | 21 |
| 24 |  | 87,077 |  | 85,703 |  | 83,938 |  | 64,987 |  | 63,795 |  | 6,966 |  | 6,856 |  | 6,715 |  | 5,199 |  | 5,104 | 22 |
| 25 |  | 9,362 |  | 9,636 |  | 11,189 |  | 9,425 |  | 8,284 |  | 749 |  | 771 |  | 896 |  | 754 |  | 663 | 23 |
| 26 |  | 65 |  | 65 |  | 65 |  | n/a |  | n/a |  | n/a |  | n/a |  | n/a |  | n/a |  | n/a | 24 |
| 27 |  | - |  | - |  | - |  | n/a |  | n/a |  | n/a |  | n/a |  | n/a |  | n/a |  | n/a | 25 |
| 28 |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - | 26 |
| 29 | \$ | 571,161 | \$ | 544,880 | \$ | 549,398 | \$ | 531,644 | \$ | 517,048 | \$ | 45,693 | \$ | 43,590 | \$ | 43,952 | \$ | 42,532 | \$ | 41,365 | 27 |

RWA includes $6 \%$ scalar when appropriate
${ }_{2}^{2}$ Minimum capital requirements equal $8 \%$ of RWA
Includes other assets and equities which use a regulatory prescribed risk weight.
Includes qualifying central counterparties (QCCPs), CVA and repo style transactions
As of the second quarter of 2023, equity positions are included with credit risk exposures under the standardized approach.
As of the second quarter of 2023, these are now a deduction from CET1 capital.
BCBS transition cap not implemented in Canada, thus lines 27 and 28 represent the output based on the current OSFI transition factor in the line 26

Comparison of Modelled and Standardized RWA at Risk Level (CMS1)

| $\begin{aligned} & \text { (\$ millions) } \\ & \text { As at } \end{aligned}$ | $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | RWA for modelled approaches that D-SIBs have supervisory approval to use |  | RWA for portfolios where standardized approaches are used |  |  | Total actual RWA ${ }^{1}$ |  | RWA calculated full standardeiped approach ${ }^{2}$ |
| Credit risk (excluding counterparty credit risk) | 1 | \$ | 355,806 | \$ | 56,251 | \$ | 412,057 | \$ | 629,658 |
| Counterparty credit risk | 2 |  | 14,560 |  | 2,598 |  | 17,158 |  | 60,791 |
| Credit valuation adjustment | 3 |  |  |  | 8,381 |  | 8,381 |  | 8,381 |
| Securitisation exposures in the banking book | 4 |  | 6,904 |  | 9,748 |  | 16,652 |  | 25,335 |
| Market risk | 5 |  | 14,344 |  | 2,608 |  | 16,952 |  | 6,488 |
| Operational risk | 6 |  |  |  | 87,077 |  | 87,077 |  | 87,077 |
| Residual RWA ${ }^{3}$ | 7 |  |  |  | 12,884 |  | 12,884 |  | 12,884 |
| Total |  | \$ | 391,614 | \$ | 179,547 | \$ | 571,161 | \$ | 830,614 |

${ }_{2}^{1}$ Represents RWA for the period as disclosed in OV1
${ }_{3}^{2}$ Represents RWA used for the regulatory floor.
Residual RWA consists of equity investment in funds, settlement risk and amounts below the thresholds for deductions.

Comparison of Modelled and Standardized RWA for Credit Risk at Asset Class Level (CMS2)

| (\$ millions)As at | $\underset{\#}{\mathrm{LINE}}[$ | $\begin{gathered} 2023 \\ \text { Q4 } \\ \hline \end{gathered}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | RWA for modelled approaches that D-SIBs have supervisory approval to use |  | RWA for portfolios where standardized approaches are used |  |  | Total actual RWA |  | RWA calculated using full standardized approach |
| Sovereign | 1 | \$ | 13,138 | \$ | 96 | \$ | 13,234 | \$ | 16,283 |
| Of which: categorised as MDB/PSE in SA $^{1}$ | 1 a |  | 12,403 |  | - |  | 12,403 |  | 15,317 |
| Banks and other financial institutions | 2 |  | 6,288 |  | 644 |  | 6,932 |  | 12,536 |
| Covered Bonds | 3 |  | 1,703 |  | - |  | 1,703 |  | 1,239 |
| Equity | 4 |  | - |  | 24,828 |  | 24,828 |  | 24,828 |
| Purchased receivables | 5 |  | - |  |  |  |  |  |  |
| Corporates | 6 |  | 197,173 |  | 1,006 |  | 198,179 |  | 293,263 |
| Of which: F-IRB is applied | 6 a |  | 78,267 |  |  |  | 78,267 |  | 145,341 |
| Of which: A-IRB is applied | 6 b |  | 118,906 |  |  |  | 118,906 |  | 146,916 |
| Retail | 7 |  | 134,136 |  | 4,606 |  | 138,742 |  | 246,696 |
| Of which: qualifying revolving retail | 7 a |  | 39,587 |  | 248 |  | 39,835 |  | 41,470 |
| Of which: other retail | 7 b |  | 43,334 |  | 1,963 |  | 45,297 |  | 72,275 |
| Of which: retail residential mortgages | 7 c |  | 51,215 |  | 2,395 |  | 53,610 |  | 132,951 |
| Specialised lending | 8 |  | 3,368 |  | - |  | 3,368 |  | 9,742 |
| Of which: income-producing real estate and high volatility commercial real estate | $8 \mathrm{8a}$ |  | 2,846 |  | - |  | 2,846 |  | 8,919 |
| Others | 9 |  | - |  | 25,071 |  | 25,071 |  | 25,071 |
| Total | 10 | \$ | 355,806 | \$ | 56,251 | \$ | 412,057 | \$ | 629,658 |

Multilateral development banks/Public sector entities (MDB/PSE).

Flow Statements for Risk-Weighted Assets - Credit Risk

| $\begin{aligned} & \text { (\$ millions) } \\ & \text { As at } \end{aligned}$ | $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q3 } \end{gathered}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Non- $\begin{array}{r}\text { counterparty } \\ \text { credit risk }\end{array}$ |  | Of which internal ratings-based (IRB) approach ${ }^{2}$ |  | Counterparty credit risk ${ }^{3}$ |  | Of which IRB approach |  | Noncounterparty credit risk ${ }^{1}$ |  | Of which internal ratings-based (IRB) approach ${ }^{2}$ |  | Counterparty credit risk ${ }^{3}$ |  | Of which IRB approach |
| RWA, balance at beginning of period | 1 | \$ | 419,671 | \$ | 336,604 | \$ | 22,595 | \$ | 13,541 | \$ | 421,019 | \$ | 335,109 | \$ | 22,664 | \$ | 13,654 |
| Asset size ${ }^{4}$ | 2 |  | 352 |  | 2,100 |  | 2,394 |  | 804 |  | 4,754 |  | 5,198 |  | 385 |  | 140 |
| Asset quality ${ }^{5}$ | 3 |  | 7,031 |  | 7,031 |  | (189) |  | (192) |  | 1,465 |  | 1,465 |  | 12 |  | 12 |
| Model updates ${ }^{6}$ | 4 |  | - |  | - |  | - |  | - |  | 40 |  | 40 |  | - |  | - |
| Methodology and policy ${ }^{7}$ | 5 |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |
| Acquisitions and disposals ${ }^{8}$ | 6 |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |
| Foreign exchange movements ${ }^{9}$ | 7 |  | 13,016 |  | 10,071 |  | 739 |  | 407 |  | $(6,840)$ |  | $(5,208)$ |  | (466) |  | (265) |
| Other ${ }^{10}$ | 8 |  | 1,523 |  | - |  | - |  | - |  | (767) |  | - |  | - |  | - |
| RWA, balance at end of period | 9 | \$ | 441,593 | \$ | 355,806 | \$ | 25,539 | \$ | 14,560 | \$ | 419,671 | \$ | 336,604 | \$ | 22,595 | \$ | 13,541 |

RWA, balance at beginning of period
Asset size ${ }^{4}$
Asset quality ${ }^{5}$
Model updates ${ }^{6}$
Methodology and policy ${ }^{7}$
Acquisitions and disposals ${ }^{8}$
Foreign exchange movements ${ }^{9}$
Other ${ }^{10}$
RWA, balance at end of perio

## RWA balance at beginning of period

Asset size ${ }^{4}$
Asset quality ${ }^{5}$
Methoplogy
Methodology and policy ${ }^{7}$
Acquisitions and disposals ${ }^{8}$
Foreign exchange movements ${ }^{9}$
Other ${ }^{10}$
RWA, balance at end of period
 prepaid expenses, deferred income taxes, land, building, equipment, and other depreciable property.
Reflects Pillar 3 requirements for RWA flow statements of credit risk exposures under IRB (CR8) which excludes securitization and equity.
CCR is
4 The Asset size category consists of organic changes in book size and composition (including new business and maturing loans) and, for the fourth quarter of 2023, increased in various portfolios in the Canadian Personal and Commercial Banking and, Wholesale Banking segments offset by a decrease in the U.S. Retail segment..
The Asset quality category includes quality of book changes caused by experience such as underlying customer behaviour or demographics, including changes through model calibrations/realignments and in the fourth quarter of 2023 , increased mainly in various retail and non-retail portfolios in the Canadian Personal and Commercial Banking and U.S. Retail segments.
The Model updates category relates to model implementation, changes in model scope, or any changes to address model malfunctions
The Methodology and policy category impacts reflect newly adopted methodology changes to the calculations driven by regulatory policy changes, such as new regulations
The Acquisitions and disposals category reflects changes due to business acquisitions or disposals.
 depreciable property, and other assets.

Flow Statements for Risk-Weighted Assets - Market Risk

## (\$ millions)

As at

RWA, balance at beginning of period
Movement in risk levels
Model updates/changes
Methodology and policy ${ }^{3}$
Acquisitions and disposals ${ }^{4}$
Foreign exchange movements and other ${ }^{5}$
RWA, balance at end of period

| $\underset{\#}{\text { LINE }}$ | 2023 |  |  |  |  |  |  |  | $\begin{gathered} 2022 \\ \text { Q4 } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Q4 |  |  | Q3 | Q2 |  | Q1 |  |  |  |
| 1 | \$ | 16,911 | \$ | 21,777 | \$ | 19,554 | \$ | 22,913 | \$ | 24,599 |
| 2 |  | 41 |  | $(1,407)$ |  | $(1,397)$ |  | $(3,359)$ |  | $(1,686)$ |
| 3 |  | - |  | - |  | - |  | - |  | - |
| 4 |  | - |  | $(3,459)$ |  | - |  | - |  | - |
| 5 |  | - |  | - |  | 3,620 |  | - |  | - |
| 6 |  | $\mathrm{n} / \mathrm{m}^{6}$ |  | $\mathrm{n} / \mathrm{m}$ |  | $\mathrm{n} / \mathrm{m}$ |  | $\mathrm{n} / \mathrm{m}$ |  | $\mathrm{n} / \mathrm{m}$ |
| 7 | \$ | 16,952 | \$ | 16,911 | \$ | 21,777 | \$ | 19,554 | \$ | 22,913 |

${ }^{1}$ The Movement in risk levels category reflects changes in risk due to position changes and market movements.
${ }^{2}$ The Model updates category reflects updates to the model to reflect recent experience and change in model scope.
The Methodology and policy category reflects newly adopted methodology changes to the calculations driven by regulatory policy changes
${ }^{5}$ The Acquisition and disposals category reflects changes due to business acquisitions or disposals.
${ }^{6}$ Not meaningful movements and other are deemed not meaningful $(\mathrm{N} / \mathrm{M})$ since RWA exposure measures are calculated in Canadian Dollars. Therefore, no foreign exchange translation is required.

## Flow Statement for Risk-Weighted Assets - Operational Risk

(\$ millions)
As at

## Disclosure for Operational Risk Risk-Weighted Assets Movement by Key Driver

## RWA, balance at beginning of period

Business growth ${ }^{1}$
Methodology and policy ${ }^{2}$
Acquisitions and disposals ${ }^{3}$
Movement in risk level ${ }^{4}$
Revenue generation ${ }^{5}$
RWA, balance at end of period ${ }^{6}$

| $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ | 2023 |  |  |  |  |  |  |  | $\begin{gathered} 2022 \\ \text { Q4 } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Q4 |  |  | Q3 | Q2 |  | Q1 |  | Q4 |  |
| 1 | \$ | 85,703 | \$ | 83,938 | \$ | 64,987 | \$ | 63,795 | \$ | 62,744 |
| 2 |  | 2,267 |  | 1,765 |  | 1,542 |  | - |  | - |
| 3 |  | - |  | - |  | 14,103 |  | - |  | - |
| 4 |  | - |  | - |  | 3,306 |  | - |  | - |
| 5 |  | (893) |  | - |  | - |  | - |  | - |
| 6 |  | n/a |  | n/a |  | n/a |  | 1,192 |  | 1,051 |
| 7 | \$ | 87,077 | \$ | 85,703 | \$ | 83,938 | \$ | 64,987 | \$ | 63,795 |

1 The Business growth category reflects changes in the three-year average Business Indicator (BI); a financial proxy measure for operational risk exposure used in Basel III Standardized Approach (SA).
${ }_{2}$ The Methodology and policy category reflects newly adopted methodology changes to the calculations driven by regulatory policy changes.
${ }^{3}$ The Acquisitions and disposals category reflects changes due to business acquisitions or disposals.
${ }^{4}$ The Movement in risk level category reflects changes in the ten-year average operational loss experience, relative to BI
${ }_{5}$ The movement in Revenue generation category is due to a change in the three-year average of annual gross income used in The Standardized Approach.
6 TD adopted the Basel III SA for Operational Risk RWA in Q2 2023 as per OSFI Requirements.

Differences Between Accounting and Regulatory Scopes of Consolidation and Mapping of Financial Statements with Regulatory Risk Categories (LI1)

## (\$ millions)

As at $\square$

Cash and due from bank
Interest-bearing deposits with bank
Trading loans, securities, and other
Non-trading
Derivatives
Deinancial
Financial assets designated at fair value through profit or loss Financial assets at fair value through other comprehensive income Debt securities at amortized cost, net of allowance for credit losses Residential mortgages
Residential mortgages
and other personal
Credit card
and government
Allowance for loan losses
Customers' liability under acceptances
Investment in Schwab
Goodwill
Other intangibles
Land, buildings, equipment, and other depreciable assets
Deferred tax assets
Amounts receivable from brokers, dealers and clients
Other assets
Total assets

## Liabilities

Trading deposits
Trading depo
Securitization liabilities at fair value
Financial liabilities designated at fair value through profit or loss Deposits
Acceptances
Obligations related to securities sold short
Obligations related to securities sold under repurchase agreements Securitization liabilities at amortized cost
Amounts payable to brokers, dealers, and clients
Insurance-related liabilities
Other liabilities
tes and debentures
Total liabilities

| $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Carrying values as reported in published financial statements |  | Carrying values under scope of regulatory consolidation ${ }^{2}$ |  | Subject to credit risk framework |  | Subject to counterparty credit risk framework |  | Subject to the securitization framework |  | Subject to the market risk framework |  | Carrying values of items ${ }^{1}$ |  |
|  |  |  |  | Not subject to capital requirements or subject to deduction from capital |  |  |  |  |  |  |  |  |
| 1 | \$ | 6,721 |  |  | \$ | 6,710 | \$ | 7,185 | \$ | - | \$ | - | \$ | - | \$ | (475) |
| 2 |  | 98,348 |  | 98,198 |  | 97,871 |  | - |  | - |  | 327 |  | ) |
| 3 |  | 152,090 |  | 152,090 |  | 1,079 |  | - |  | - |  | 151,011 |  | - |
| 4 |  | 7,340 |  | 6,749 |  | 1,927 |  | - |  | 5,978 |  | - |  | $(1,156)$ |
| 5 |  | 87,382 |  | 87,387 |  | - |  | 87,387 |  | - |  | 81,526 |  | - |
| 6 |  | 5,818 |  | 1,815 |  | 2,047 |  | - |  | - |  | - |  | (232) |
| 7 |  | 69,865 |  | 66,607 |  | 60,836 |  | - |  | 4,344 |  | - |  | 1,427 |
| 8 |  | 308,016 |  | 307,989 |  | 251,746 |  | - |  | 56,785 |  | - |  | (542) |
| 9 |  | 204,333 |  | 204,333 |  |  |  | 204,333 |  | - |  | 9,649 |  | - |
| 10 |  | 320,341 |  | 320,341 |  | 321,211 |  | - |  | - |  | - |  | (870) |
| 11 |  | 217,554 |  | 217,554 |  | 217,930 |  | - |  | 7- |  | - |  | (376) |
| 12 |  | 38,660 |  | 38,660 |  | 30,109 |  | - |  | 7,903 |  | - |  | 648 |
| 13 |  | 326,528 |  | 326,528 |  | 306,742 |  | - |  | 28,702 |  | - |  | $(8,916)$ |
| 14 |  | $(7,136)$ |  | $(7,136)$ |  | (2) |  | - |  | - |  | - |  | $(7,134)$ |
| 15 |  | 17,569 |  | 17,569 |  | 17,569 |  | - |  | - |  | - |  | - |
| 16 |  | 8,907 |  | 8,907 |  | 8,907 |  | - |  | - |  | - |  | - |
| 17 |  | 18,602 |  | 18,602 |  | - |  | - |  | - |  | - |  | 18,602 |
| 18 |  | 2,771 |  | 2,771 |  | - |  | - |  | - |  | - |  | 2,771 |
| 19 |  | 9,434 |  | 9,331 |  | 9,331 |  | - |  | - |  | - |  | - |
| 20 |  | 3,960 |  | 3,881 |  | 3,008 |  | - |  | - |  | - |  | 873 |
| 21 |  | 30,416 |  | 30,416 |  | 3,222 |  | - |  | - |  | - |  | 27,194 |
| 22 |  | 29,505 |  | 26,280 |  | 13,396 |  | 8,693 |  | - |  | - |  | 4,191 |
| 23 | \$ | 1,957,024 | \$ | 1,945,582 | \$ | 1,354,114 | \$ | 300,413 | \$ | 103,712 | \$ | 242,513 | \$ | 36,005 |
| 24 | \$ | 30,980 | \$ | 30,980 | \$ | - | \$ | - | \$ | - | \$ | 27,059 | \$ | 3,921 |
| 25 |  | 71,640 |  | 71,640 |  | - |  | 71,640 |  | - |  | 70,382 |  | - |
| 26 |  | 14,422 |  | 14,422 |  | - |  | - |  | - |  | 14,422 |  | - |
| 27 |  | 192,130 |  | 192,130 |  | - |  | - |  | - |  | 2 |  | 192,128 |
| 28 |  | 1,198,190 |  | 1,198,190 |  | - |  | - |  | - |  | - |  | 1,198,190 |
| 29 |  | 17,569 |  | 17,569 |  | - |  | - |  | - |  | - |  | 17,569 |
| 30 |  | 44,661 |  | 44,661 |  | - |  | - |  | - |  | 43,993 |  | 668 |
| 31 |  | 166,854 |  | 166,854 |  | - |  | 166,854 |  | - |  | 12,641 |  | - |
| 32 |  | 12,710 |  | 12,710 |  | - |  | - |  | - |  | - |  | 12,710 |
| 33 |  | 30,872 |  | 30,872 |  | - |  | - |  | - |  | - |  | 30,872 |
| 34 |  | 7,605 |  | 18 |  | - |  | - |  | - |  | - |  | 18 |
| 35 |  | 47,664 |  | 43,809 |  | - |  | - |  | - |  | - |  | 43,809 |
| 36 |  | 9,620 |  | 9,620 |  | - |  | - |  | - |  | - |  | 9,620 |
| 37 | \$ | 1,844,917 | \$ | 1,833,475 | \$ | - | \$ | 238,494 | \$ | - | \$ | 168,499 | \$ | 1,509,505 |

${ }^{1}$ Certain exposures may be included in more than one column if subject to both credit and market risk.
${ }^{2}$ Excludes assets and liabilities of insurance subsidiaries.

Main Sources of Differences Between Regulatory Exposure Amounts and Carrying Values in Financial Statements (LI2)

## (\$ millions)

As at

consolidation
Liabilities carrying value amount under regulatory scope of consolidation Total net amount under regulatory scope of consolidation
Off-balance sheet amounts
Differences due to different netting rules, other than those already included in line 2
Aductment for derivatives and PFE
Gross up for repo-style transaction
Exposure amounts considered for regulatory purposes
Collateral for repo-style transactions is reflected in the loss given default (LGD) as opposed to exposure at default (EAD).

Credit Quality of Assets (CR1) ${ }^{1,2}$
(\$ millions)
As at

Loans
Debt securities
Off-balance sheet exposures
Total

Loans
Debt securities
Off-balance sheet exposures
Total

Loans
Debt securities
Off-balance sheet exposures
Total

## Loans

Debt securities
Off-balance sheet exposures
Total
$\underset{\#}{\text { LINE }}$





Excludes insurance subsidiaries, securitization exposures, assets at fair value through profit or loss (FVTPL), and acquired credit-impaired (ACI) loans.
Restructured exposures as at October 31, 2023 are $\$ 802$ million, of which $\$ 300$ million is considered impaired. This excludes exposures related to the COVID-19 deferral program.
Includes total impaired exposures, of which $\$ 2,175$ million (July $31,2023-\$ 1,954$ million; April $30,2023-\$ 1,646$ million; January $31,2023-\$ 1,541$ million) is in the default category and $\$ 1,124$ million as at October 31 , 2023
(July 31, 2023-\$1,026 million; April 30, 2023-\$1,013 million; January 31, $2023-\$ 1,050$ million) is in the high risk/watch and classified categories
Includes Stage 1, 2, and 3 allowances.
${ }^{5}$ Specific consists of Stage 3 expected credit loss allowances. General consists of Stage 1 and Stage 2 expected credit loss allowances.

Credit Quality of Assets (CR1) (Continued) ${ }^{1}$
(\$ millions)
As at

Loans
Debt securities
Off-balance sheet exposures
Total


Excludes insurance subsidiaries, securitization exposures, assets at FVTPL, and ACI loans.
Includes total impaired exposures of which $\$ 1,470$ million is in the default category and $\$ 1,033$ million as at October 31,2022 is in the high risk/watch and classified categories.
Includes Stage 1, 2, and 3 allowances.
Specific consists of Stage 3 expected credit loss allowances. General consists of Stage 1 and Stage 2 expected credit loss allowances.

Credit Risk Mitigation Techniques - Overview (CR3) ${ }^{1}$

| $\begin{aligned} & \text { (\$ millions) } \\ & \text { As at } \end{aligned}$ | $\underset{\#}{\mathrm{LINE}} \underset{ }{\mathrm{~L}}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q3 } \end{gathered}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Exposuresunsecuredcarryingamount |  | Exposuressecured |  | Exposures secured by collateral ${ }^{2}$ |  | Exposures secured by financial guarantees |  | ```Exposures secured by credit derivatives \({ }^{3}\)``` |  | Exposures unsecured carrying amount |  | Exposuressecured |  | Exposures secured by collateral ${ }^{2}$ |  | Exposures secured by financial guarantees |  | Exposuressecuredby creditderivatives ${ }^{3}$ |  |
| Loans | 1 | \$ | 310,815 | \$ | 572,910 | \$ | 488,142 | \$ | 84,697 | \$ | 71 | \$ | 301,564 | \$ | 556,498 | \$ | 473,115 | \$ | 83,314 |  | 69 |
| Debt securities | 2 |  | 311,632 |  | 969 |  | - |  | - |  | 969 |  | 308,597 |  | 975 |  | - |  | - |  | 975 |
| Total | 3 | \$ | 622,447 | \$ | 573,879 | \$ | 488,142 | \$ | 84,697 | \$ | 1,040 | \$ | 610,161 | \$ | 557,473 | \$ | 473,115 | \$ | 83,314 |  | 1,044 |
| Of which: defaulted | 4 |  | 1,836 |  | 1,463 |  | 1,283 |  | 180 |  | - |  | 1,622 |  | 1,358 |  | 1,196 |  | 162 |  | - |
|  |  | $\begin{gathered} 223 \\ \text { Q2 } \end{gathered}$ |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q1 } \\ \hline \end{gathered}$ |  |  |  |  |  |  |  |  |  |
|  |  |  | Exposures unsecured carrying amount |  | Exposures secured |  | Exposures secured by collateral ${ }^{2}$ |  | Exposures secured by financial guarantees |  | Exposures secured by credit derivatives ${ }^{3}$ |  | Exposures unsecured carrying amount |  | Exposures secured |  | Exposures secured by collateral ${ }^{2}$ |  | Exposures secured by financial guarantees |  | Exposures secured by credit derivatives ${ }^{3}$ |
| Loans | 5 | \$ | 293,093 | \$ | 542,559 | \$ | 458,116 | \$ | 84,412 | \$ | 31 | \$ | 296,396 | \$ | 535,538 | \$ | 443,349 | \$ | 92,183 |  | 6 |
| Debt securities | 6 |  | 333,461 |  | 858 |  | - |  | - |  | 858 |  | 334,956 |  | 943 |  | - |  | - |  | 943 |
| Total | 7 | \$ | 626,554 | \$ | 543,417 | \$ | 458,116 | \$ | 84,412 | \$ | 889 | \$ | 631,352 | \$ | 536,481 | \$ | 443,349 |  | 92,183 |  | 949 |
| Of which: defaulted | 8 |  | 1,359 |  | 1,300 |  | 1,129 |  | 171 |  | - |  | 1,347 |  | 1,244 |  | 1,090 |  | 154 |  | - |

Of which: defaulted

|  | $\begin{gathered} 2022 \\ \mathrm{Q} 4 \\ \hline \end{gathered}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Exposures unsecured carrying amount |  | Exposures secured |  | Exposures secured by collateral ${ }^{2}$ |  | Exposures secured by financial guarantees |  | $\begin{array}{r} \text { Exposures } \\ \text { secured } \\ \text { by credit } \\ \text { derivatives }^{3} \\ \hline \end{array}$ |
| 9 | \$ | 293,540 | \$ | 540,964 | \$ | 444,970 | \$ | 95,987 | \$ | 7 |
| 10 |  | 333,276 |  | 1,292 |  | - |  | - |  | 1,292 |
| 11 | \$ | 626,816 | \$ | 542,256 | \$ | 444,970 | \$ | 95,987 | \$ | 1,299 |
| 12 |  | 1,248 |  | 1,255 |  | 1,105 |  | 150 |  | - |

Represent collateral, financial guarantees, and credit derivatives only when such result in reduced capital requirements
${ }^{2}$ For retail exposures reflects collateral as at origination and for non-retail only reflects financial collateral.
As at October 31, 2023, the impact to RWA from credit derivatives used as CRM techniques is a decrease of $\$ 0.5$ billion (July 31,2023 - a decrease of $\$ 0.5$ billion, April 30 , 2023 - a decrease of $\$ 0.3$ billion; January 31 , 2023 - a decrease of $\$ 0.5$ billion; October 31, 2022 - a decrease of $\$ 0.8$ billion) (CR7).

Gross Credit Risk Exposures ${ }^{1}$
(\$ millions)
As at

By Counterparty Type
Retail
Residential secured
Qualifying revolving retail
Other retail
Non-retail
Corporate
Bank
Total
By Country of Risk
Canada
United States
Other International
Europe

Total
By Residual Contractual Maturity
Within 1 year
Over 1 year to 5 years
Over 5 years
Total
Non-Retail Exposures by Industry Sector
Real estate
Residential
Non-resident
Non-residential
Total real-e
Agriculture
Automotive
Financial
Food, beverage, and tobacco
Forestry
Government, public sector entities, and education
Health and social services
Industrial construction and trade contractors
Metals and mining
Oil and gas
Power and utilities
Professional and other services
Retail sector
Sundry manufacturing and wholesale
Telecommunications, cable, and media
Transportation
Other
Total


Gross credit risk exposure is before credit risk mitigants. This table excludes securitization, equity, and other credit RWA.
Gross exposure on undrawn commitments is EAD which is the amount currently undrawn but expected to be drawn assuming a default on the underlying committed loan agreement.

Gross Credit Risk Exposures (Continued) ${ }^{1}$

## (\$ million

As at

## By

Retail
Residential secured
Qualifying revolving retai
Other retail

## Non-retail

Corporate
Sovereign
Bank
Total
By Country of Risk
Canada
United States
Other International
Europe
Other
Total
By Residual Contractual Maturity
Within 1 year
Over 1 year to 5 years
Over 5 years
Total


Non-Retail Exposures by Industry Sector
Real estate
Residential
Non-residential
Agriculture
Agriculture
Automotive
Financial
Food, beverage, and tobacco
Forestry
Government, public sector entities, and education Health and social services
Industrial construction and trade contractors
Metals and mining
Oil and gas
Power and utilities
Professional and other services Retail sector
Sundry manufacturing and wholesale
Telecommunications, cable, and media
Transportation
Other
Total
${ }^{1}$ Gross credit risk exposure is before credit risk mitigants. This table excludes securitization, equity, and other credit RWA
${ }_{2}$ Gross exposure on undrawn commitments is EAD which is the amount currently undrawn but expected to be drawn assuming a default on the underlying committed loan agreement.

Gross Credit Risk Exposures (Continued) ${ }^{1}$
(\$ millions)

By Counterparty Type
Retail
Retail
Residential secured
Qualifying revolving retail
Other retail

## Non-retail

Corporate
Sovereign
Total
By Country of Risk
Canada
United States
Other International Europe
Other

Total
By Residual Contractual Maturity
Within 1 year
Over 1 year to 5 years
Over 5 years
Total
Non-Retail Exposures by Industry Sector Real estate

Residential
Non-residential
Total real-estate
Agriculture
Automotiv
Financial
Food, beverage, and tobacco
Forestry
Governm
Government, public sector entities, and education Health and social services
Industrial construction and trade contractor Metals and mining
Oil and gas
Power and utilities
Professional and other services
Retail sector
Sundry manu
Sundry manufacturing and wholesale
Telecommunications, cable, and media
Transportation
Other
Total
${ }^{1}$ Gross credit risk exposure is before credit risk mitigants. This table excludes securitization equity, and other credit RWA
${ }^{2}$ Gross exposure on undrawn commitments is EAD which is the amount currently undrawn but expected to be drawn assuming a default on the underlying committed loan agreement.

Standardized Approach - Credit Risk Exposure and Credit Risk Mitigation (CRM) Effects (CR4) ${ }^{1}$


Excludes securitization and CCR.
Credit conversion factor.
RWA calculated on post-CCF and post-CRM exposures
Total RWA as a percentage of post-CCF and post-CRM exposures
Excludes exposures subject to direct capital deductions and threshold deductions.

Standardized Approach - Credit Risk Exposure and Credit Risk Mitigation (CRM) Effects (CR4) (Continued) ${ }^{1}$

| $\begin{aligned} & \text { (\$ millions) } \\ & A s a t \end{aligned}$ | $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2023 \\ \mathbf{Q 1} \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2022 \\ \mathrm{Q4} \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Exposures before CCF and CRM |  |  |  | Exposures post-CCF and CRM |  |  |  | RWA ${ }^{2}$ |  | $\begin{array}{r} \text { RWA } \\ \text { density }^{3} \\ \hline \end{array}$ |  | Exposures before CCF and CRM |  |  |  | Exposures post-CCF and CRM |  |  |  |  | RWA ${ }^{2}$ | $\begin{array}{r} \text { RWA } \\ \text { density }^{3} \\ \hline \end{array}$ |
|  |  |  | balance amount |  | balance amount |  | balance amount |  | $\begin{aligned} & \text { alance } \\ & \text { mount } \end{aligned}$ |  |  |  | On-balance sheet amount |  | Off-balance sheet amount |  | On-balancesheet amount |  | Off-balance sheet amount |  |  |  |  |
| Asset classes Corporate | 1 | S | 1,763 | \$ | 473 | \$ | 1,763 | \$ | 10 | \$ | 1,355 |  | 76.42 | \% | \$ | 2,191 | \$ | 426 | \$ | 2,191 | \$ | 14 |  | 1,698 | 77.01 \% |
| Sovereign | 2 |  | 1 |  | - |  | 1 |  |  |  | - | - |  |  | 1 |  | - |  | 1 |  | - |  | - | - |
| Bank | 3 |  | 674 |  | - |  | 674 |  | - |  | 135 | 20.03 |  |  | 646 |  | - |  | 646 |  | - |  | 129 | 19.97 |
| Retail residential mortgages | 4 |  | 3,999 |  | 1,833 |  | 3,999 |  | 884 |  | 2,792 | 57.18 |  |  | 3,951 |  | 2,201 |  | 3,951 |  | 1,038 |  | 2,968 | 59.49 |
| Other retail | 5 |  | 3,007 |  | 5,194 |  | 3,007 |  | 223 |  | 1,836 | 56.84 |  |  | 2,997 |  | 5,609 |  | 2,997 |  | 235 |  | 1,943 | 60.12 |
| Equity | 6 |  | 5,824 |  | 3,387 |  | 5,824 |  | 1,693 |  | 4,822 | 64.15 |  |  | 5,000 |  | 3,433 |  | 5,000 |  | 1,716 |  | 4,611 | 68.66 |
| Other assets ${ }^{4}$ | 7 |  | 28,448 |  | - |  | 28,448 |  | - |  | 22,608 | 79.47 |  |  | 27,631 |  | - |  | 27,631 |  | - |  | 21,808 | 78.93 |
| Total | 8 | \$ | 43,716 | \$ | 10,887 | \$ | 43,716 | \$ | 2,810 | \$ | 33,548 | 72.11 | \% | \$ | 42,417 | \$ | 11,669 | \$ | 42,417 | \$ | 3,003 |  | 33,157 | 73.00 \% |

${ }^{1}$ Excludes securitization and CCR.
RWA calculated on post-CCF and post-CRM exposures.
${ }^{3}$ Total RWA as a percentage of post-CCF and post-CRM exposures.
Excludes exposures subject to direct capital deductions and threshold deductions.

Standardized Approach - Exposures by Asset Classes and Risk Weights (CR5)


Total

$$
\begin{array}{llll}
23 & \$, 038 & 600 & 4,637 \\
\hline
\end{array}
$$

Total credit exposure amount (post-CCF and post-CRM): the amount used for the
and CCF have been applied but before the application of the relevant risk weights.
Excludes exposures subject to direct capital deductions and threshold deductions.

Standardized Approach - Exposures by Asset Classes and Risk Weights (CR5) (Continued)


Total credit exposure amount (post-CCF and post-CRM): the amount used for the capital requirements calculation (for both on- and off-balance sheet amounts), therefore net of specific provisions (including partial write-offs) and after CRM techniques and CCF have been applied but before the application of the relevant risk weights
Excludes exposures subject to direct capital deductions and threshold deductions.

Standardized Approach - Exposures by Asset Classes and Risk Weights (CR5) (Continued)

| (\$ millions)As at | $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2023 \\ \text { Q2 } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | weight | Total credit |
|  |  | 0\% | 15\% | 20\% | 25\% | 30\% | 35\% | 40\% | 45\% | 50\% | 55\% | 60\% | 65\% | 70\% | 75\% | 30\% | \% | 90\% | 100\% | 105\% | 110\% | 130\% | 150\% | 250\% | 400\% | 1250\% | Other | $\begin{array}{r} \text { exposures } \\ \text { amount } \\ (\text { post-CCF and } \\ \text { post-CRM })^{1} \end{array}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sovereigns and their central banks | 1 | \$ 248 |  | 423 |  |  |  |  |  | - |  |  |  |  |  |  |  |  | - |  |  |  | - |  |  |  | - \$ | 671 |
| Public sector entities | 2 | - |  | - |  |  |  |  |  | - |  |  |  |  |  |  |  |  | - |  |  |  | - |  |  |  | - | - |
| Multilateral development banks | 3 | - |  |  |  | - |  |  |  | - |  |  |  |  |  |  |  |  | - |  |  |  | - |  |  |  | - | - |
| Banks | 4 |  |  | 2,385 |  | - |  | - |  | - |  |  |  |  | - |  |  |  | 107 |  |  |  | - |  |  |  | - | 2,492 |
| Of which: securities firms and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| other financial institutions | 5 |  |  | - |  | - |  | - |  | - |  |  |  |  | - |  |  |  | - |  |  |  | - |  |  |  | - | - |
| Covered bonds | 6 |  |  | 33 |  | - |  | - |  | - |  |  |  |  | - |  |  |  | - |  |  | - | - |  |  |  | - | ${ }_{1331}$ |
| Of which: securities firms and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| other financial institutions Of which: specialised lending | 9 |  |  | - |  |  |  |  |  | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subordinated debt, equity and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail | 11 |  | 578 |  |  |  |  |  |  |  |  | - |  | - | 2,623 |  |  | - | -280 |  | - |  | , |  |  |  | - | 3,201 |
| Real estate | 12 |  |  | 426 | 375 | 498 | 869 | - | - | - |  | - | - | 2,761 |  |  | - | - | - | - | - |  | - |  |  |  | - | 4,929 |
| Of which: general RRE | 13 |  |  | 426 | 375 | 498 | 869 | - |  | - |  |  |  | 2,761 | - |  | - |  | - |  |  |  | - |  |  |  |  | 4,929 |
| Of which: IPRRE | 14 |  |  |  |  | - | - |  | - | - |  | - |  |  | - |  |  |  | - | - |  |  | - |  |  |  | - |  |
| Of which: other RRE | 15 |  |  | - | - | - | - | - |  | - | - |  |  | - | - |  | - |  | - |  |  |  | - |  |  |  | - | - |
| Of which: general CRE | 16 |  |  | - |  | - |  | - |  | - | - | - | - |  | - |  | - |  | - |  |  |  | - |  |  |  |  | - |
| Of which: IPCRE | 17 |  |  |  |  |  |  |  |  |  |  |  |  | - |  |  |  | - | - |  | - |  | - |  |  |  | - | - |
| Of which: land acquisition, development and construction | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |  |  |  | - |  |  |  | - | - |
| Reverse mortgages | 19 |  |  |  |  | - | - |  | - |  |  | - |  |  |  |  |  |  | - |  |  |  | - |  |  |  | - | - |
| Mortgage-backed securities | 20 |  |  | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | 2 | - | - |  | - |  |  |  |  | - |
| Defautted exposures | 21 |  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |  |  | 12 |  |  |  | 62 |  |  |  | - | 74 |
| Other assets ${ }^{2}$ | 22 | 7,218 |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22,234 |  |  |  |  | - |  | - |  | 29,452 |
| Total | 23 | \$ 9,498 | 578 | 4,667 | 375 | 498 | 869 | - | - | 160 | - | - | - | 2,761 | 2,630 | - | - | - | 764 | - | - | - | 92 | 10,054 | 211 | - | - \$ | 60,15 |

$$
\begin{array}{llll}
23 & 9,498 & 578 & 4,667 \\
\text { F and post-CRM): the amount used for the } \\
\text { F }
\end{array}
$$

Total credit exposure amount (post-CCF and post-CRM): the amount used for
and CCF have been applied but before the application of the relevant risk weights.
Excludes exposures subject to direct capital deductions and threshold deductions.

Standardized Approach - Exposures by Asset Classes and Risk Weights (CR5) (Continued) ${ }^{1}$


[^0]Standardized Approach - Exposures by Risk Weights (CR5)

| (\$ millions) <br> As at | $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2023 \\ \text { Q4 } \\ \hline \end{gathered}$ |  |  |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q3 } \end{gathered}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | On-balance sheet exposure |  | Off-balancesheet exposure(pre-CCF) |  | Weighted-average CCF $^{1}$ | Exposures(post-CCFand post-CRM) |  |  | On-balance sheet exposure |  | Off-balancesheet exposure |  | Weighted-average CCF ${ }^{1}$ | Exposures(post-CCFand post-CRM) |  |
| Risk weight |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than 40\% | 1 | \$ | 15,016 | \$ | 3,693 | 31.04 |  |  | 16,163 | \$ | 14,772 | \$ | 3,482 | 31.09 | \% \$ | 15,854 |
| 40-70\% | 2 |  | 1,781 |  | 1,959 | 40.00 |  |  | 2,564 |  | 1,914 |  | 2,051 | 40.00 |  | 2,734 |
| 75-80\% | 3 |  | 2,112 |  | 2,956 | 19.97 |  |  | 2,702 |  | 2,018 |  | 2,825 | 19.76 |  | 2,576 |
| 85\% | 4 |  | - |  | - | - |  |  | - |  | - |  | - | - |  | - |
| 90-100\% | 5 |  | 29,713 |  | 2,779 | 35.30 |  |  | 30,696 |  | 27,114 |  | 2,618 | 35.61 |  | 28,047 |
| 105-130\% | 6 |  | - |  | - | - |  |  | - |  | - |  | - | - |  | - |
| 150\% | 7 |  | 93 |  | - | - |  |  | 93 |  | 91 |  | - | - |  | 91 |
| 250\% | 8 |  | 9,330 |  | - | 39.90 |  |  | 9,330 |  | 9,246 |  | 1 | 39.92 |  | 9,246 |
| 400\% | 9 |  | 142 |  | 554 | 40.00 |  |  | 363 |  | 192 |  | 498 | 40.00 |  | 391 |
| 1250\% | 10 |  | - |  | - | - |  |  | - |  | - |  | - | - |  | - |
| Total exposures | 11 | \$ | 58,187 | \$ | 11,941 | 31.18 | \% \$ | \$ | 61,911 | \$ | 55,347 | \$ | 11,475 | 31.31 | \% \$ | 58,939 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | Off-balance |  |  |  | Exposures |  |  |  |  |  |  |  |
|  |  |  | balance |  | sheet exposure | Weighted-average |  |  | (post-CCF |  |  |  |  |  |  |  |
|  |  |  | xposure |  | (pre-CCF) | CCF ${ }^{1}$ |  |  | and post-CRM) |  |  |  |  |  |  |  |
| Risk weight |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than 40\% | 12 | \$ | 15,380 | \$ | 3,550 | 31.13 | \% \$ | \$ | 16,486 |  |  |  |  |  |  |  |
| 40-70\% | 13 |  | 2,022 |  | 2,248 | 40.00 |  |  | 2,921 |  |  |  |  |  |  |  |
| 75-80\% | 14 |  | 2,068 |  | 2,816 | 19.93 |  |  | 2,630 |  |  |  |  |  |  |  |
| 85\% | 15 |  | - |  | - | - |  |  | - |  |  |  |  |  |  |  |
| 90-100\% | 16 |  | 26,865 |  | 2,548 | 35.36 |  |  | 27,765 |  |  |  |  |  |  |  |
| 105-130\% | 17 |  | - |  | - | - |  |  | - |  |  |  |  |  |  |  |
| 150\% | 18 |  | 91 |  | - | - |  |  | 91 |  |  |  |  |  |  |  |
| 250\% | 19 |  | 10,053 |  | 1 | 39.92 |  |  | 10,053 |  |  |  |  |  |  |  |
| 400\% | 20 |  | 1 |  | 526 | 40.00 |  |  | 211 |  |  |  |  |  |  |  |
| 1250\% | 21 |  | - |  | - | - |  |  | - |  |  |  |  |  |  |  |
| Total exposures | 22 | \$ | 56,480 | \$ | 11,689 | 31.46 | \% | \$ | 60,157 |  |  |  |  |  |  |  |

[^1]

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Corporate (Continued) ${ }^{1}$


[^2]3 Exposures based on obligors prior to CRM.
4 Exposures after CRM reflecting guarantor.
5 Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
6 Total RWA to post-CRM EAD.
7 Includes Canadian Personal and Commercial Banking, Wealth Management and Insurance, Wholesale Banking and Corporate segments.
8 No Borrower Risk Rating mapped to the prescribed PD range.

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Corporate (Continued) ${ }^{1}$
(\$ millions, except as noted) LINE $\quad 2023$
As at
CR6: IRB - Credit Risk Exposures by Portfolio and PD range (AIRB)

Canada
u.s.

Canada


1 Excludes counterparty exposures (derivative and repo-style transactions).
2 Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS
${ }^{3}$ Exposcrures based on obligors prior to CRM.
${ }_{5}^{4}$ Exposures after CRM reflecting guarantor.
5 Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
6 Total RWA to post-CRM EAD.
7 Includes Canadian Personal and Commercial Banking, Weath Management and Insurance, Wholesale Banking and Corporate segments.
8 No Borrower Risk Rating mapped to the prescribed PD range

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Corporate (Continued) ${ }^{1}$

| (\$ millions, except as noted) As at | $\begin{gathered} \mathrm{LINE} \\ \# \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | PD scale ${ }^{2}$ |  | External rating |  | Original on-balance sheet gross exposure ${ }^{3}$ |  | $\begin{array}{r} \text { Off- } \\ \text { balance sheet } \\ \text { exposures } \\ \text { pre-CCF } \end{array}$ | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{4}$ | Average PD (\%) |  | Number of obligors ${ }^{5}$ | Average LGD (\%) |  | Average maturity (years) |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \end{array}$ |  |  | EL |  | Provisions |
| Canada ${ }^{\text { }}$ | 1 | 0.00 to <0.15 | \% | AAA to BBB- | \$ | 63,689 | \$ | 109,388 | 75.55 | \% | \$ | 160,547 | 0.08 | \% | 6,825 | 34.93 | \% | 2.7 | \$ | 32,437 | 20.20 | \% | \$ | 42 |  |  |
|  | 2 | 0.15 to <0.25 |  | BB+ |  | 25,225 |  | 9,886 | 75.43 |  |  | 27,346 | 0.20 |  | 2,318 | 26.51 |  | 2.4 |  | 8,473 | 30.98 |  |  | 15 |  |  |
|  | 3 | 0.25 to <0.50 |  | BB to BB - |  | 43,573 |  | 16,239 | 73.46 |  |  | 48,954 | 0.36 |  | 7,478 | 27.30 |  | 2.3 |  | 18,743 | 38.29 |  |  | 47 |  |  |
|  | 4 | 0.50 to <0.75 |  | B+ |  | 14,122 |  | 3,645 | 74.36 |  |  | 16,183 | 0.69 |  | 2,225 | 26.77 |  | 2.0 |  | 7,983 | 49.33 |  |  | 30 |  |  |
|  | 5 | 0.75 to <2.50 |  | в То в- |  | 27,467 |  | 7,028 | 75.35 |  |  | 31,418 | 1.67 |  | 11,707 | 38.47 |  | 2.3 |  | 31,009 | 98.70 |  |  | 201 |  |  |
|  | 6 | 2.50 to <10.00 |  | CCC+ |  | 2,066 |  | 1,105 | 69.93 |  |  | 2,599 | 9.82 |  | 313 | 44.96 |  | 2.3 |  | 5,221 | 200.88 |  |  | 115 |  |  |
|  |  | 10.00 to <100.00 |  | CcC to CC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 7 |  |  | and below |  | 2,633 |  | 1,511 | 75.32 |  |  | 3,676 | 21.20 |  | 677 | 41.03 |  | 1.8 |  | 8,222 | 223.67 |  |  | 320 |  |  |
|  | 8 | 100.00 (Defaut) |  | Default |  | 523 |  | 84 | 49.68 |  |  | 561 | 100.00 |  | 231 | 54.48 |  | 2.3 |  | 1,752 | 312.30 |  |  | 276 |  |  |
|  | 9 | Total |  |  | \$ | 179,298 | \$ | 148,886 | 75.22 | \% | \$ | 291,284 | 0.89 | \% | 31,013 | 32.99 | \% | 2.5 | \$ | 113,840 | 39.08 | \% | \$ | 1,046 | \$ | 306 |
| u.s. | 10 | 0.00 to <0.15 | \% | AAA to A- | \$ | 22,550 | \$ | 19,038 | 65.69 | \% | \$ | 39,750 | 0.05 | \% | 480 | 30.40 | \% | 3.4 | \$ | 5,889 | 14.82 | \% | \$ | 5 |  |  |
|  | 11 | 0.15 to <0.25 |  | BBB+ |  | 7,226 |  | 6,627 | 61.96 |  |  | 11,337 | 0.23 |  | 175 | 28.30 |  | 2.8 |  | 3,906 | 34.45 |  |  | 7 |  |  |
|  | 12 | 0.25 to <0.50 ${ }^{8}$ |  | n/a |  | n/a |  | n/a | n/a |  |  | n/a | n/a |  | n/a | n/a |  | n/a |  | n/a | n/a |  |  | n/a |  |  |
|  | 13 | 0.50 to <0.75 |  | BBB to BB |  | 45,383 |  | 34,039 | 60.26 |  |  | 65,711 | 0.61 |  | 4,922 | 32.95 |  | 3.3 |  | 43,825 | 66.69 |  |  | 133 |  |  |
|  | 14 | 0.75 to <2.50 |  | BB- то $^{\text {B }}$ |  | 22,436 |  | 12,590 | 61.03 |  |  | 30,076 | 1.50 |  | 6,561 | 35.57 |  | 3.3 |  | 28,919 | 96.15 |  |  | 163 |  |  |
|  | 15 | 2.50 to <10.00 |  | B- |  | 9,148 |  | 2,174 | 59.10 |  |  | 5,962 | 4.71 |  | 1,352 | 33.27 |  | 3.1 |  | 7,195 | 120.68 |  |  | 93 |  |  |
|  |  | 10.00 to <100.00 |  | CCC + to CC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 16 |  |  | and below |  | 3,497 |  | 1,063 | 48.32 |  |  | 4,010 | 29.17 |  | 559 | 39.78 |  | 2.8 |  | 9,062 | 225.99 |  |  | 454 |  |  |
|  | 17 | 100.00 (Defaut) |  | Default |  | 202 |  | 90 | 45.61 |  |  | 243 | 100.00 |  | 136 | 48.02 |  | 3.1 |  | 1,308 | 538.27 |  |  | 19 |  |  |
|  | 18 | Total |  |  | \$ | 110,442 | \$ | 75,621 | 61.69 | \% | \$ | 157,089 | 1.65 | \% | 14,181 | 32.68 | \% | 3.2 | \$ | 100,104 | 63.72 | \% | \$ | 874 | \$ | 25 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Original |  | Off- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | on-balance |  | balance sheet |  |  |  | EAD post |  |  |  |  |  | Average |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | sheet gross |  | exposures | Average |  |  | CRM and | Average |  | Number of | Average |  | maturity |  |  | RWA |  |  |  |  |  |
|  |  | PD scale ${ }^{2}$ |  | External rating |  | exposure ${ }^{3}$ |  | pre-CCF ${ }^{3}$ | CCF (\%) |  |  | post-CCF ${ }^{4}$ | PD (\%) |  | obligors ${ }^{5}$ | LGD (\%) |  | (years) |  | RWA | density ${ }^{6}$ |  |  | EL |  | Provisions |
| Canada ${ }^{7}$ | 19 | 0.00 to <0.15 | \% | AAA to BBB- | \$ | 55,751 | \$ | 107,226 | 69.52 | \% | \$ | 144,141 | 0.08 | \% | 6,780 | 34.72 | \% | 2.7 | \$ | 28,293 | 19.63 | \% | \$ | 37 |  |  |
|  | 20 | 0.15 to <0.25 |  | BB+ |  | 27,515 |  | 10,160 | 69.99 |  |  | 29,020 | 0.20 |  | 2,419 | 24.19 |  | 2.3 |  | 8,125 | 28.00 |  |  | 14 |  |  |
|  | 21 | 0.25 to <0.50 |  | BB to BB - |  | 43,285 |  | 15,486 | 67.37 |  |  | 47,480 | 0.36 |  | 7,517 | 26.35 |  | 2.2 |  | 17,593 | 37.05 |  |  | 44 |  |  |
|  | 22 | 0.50 to <0.75 |  | B+ |  | 13,282 |  | 3,289 | 69.23 |  |  | 14,823 | 0.68 |  | 2,214 | 27.39 |  | 1.9 |  | 7,444 | 50.22 |  |  | 28 |  |  |
|  | 23 | 0.75 to <2.50 |  | в то в- |  | 25,321 |  | 6,372 | 69.14 |  |  | 28,622 | 1.63 |  | 11,126 | 37.15 |  | 2.1 |  | 26,736 | 93.41 |  |  | 171 |  |  |
|  | 24 | 2.50 to <10.00 |  | CCC+ |  | 2,240 |  | 1,122 | 50.55 |  |  | 2,732 | 9.01 |  | 307 | 44.72 |  | 2.2 |  | 5,246 | 192.02 |  |  | 110 |  |  |
|  |  | 10.00 to <100.00 |  | ccc to cc |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 25 |  |  | and below |  | 2,244 |  | 1,317 | 56.82 |  |  | 2,908 | 20.78 |  | 672 | 40.71 |  | 1.8 |  | 6,390 | 219.74 |  |  | 246 |  |  |
|  | 26 | 100.00 (Defaut) |  | Default |  | 418 |  | 14 | 67.38 |  |  | 423 | 100.00 |  | 213 | 56.78 |  | 1.8 |  | 1,170 | 276.60 |  |  | 246 |  |  |
|  | 27 | Total |  |  | \$ | 170,056 | \$ | 144,986 | 69.04 | \% | \$ | 270,149 | 0.81 | \% | 30,452 | 32.17 | \% | 2.4 | \$ | 100,997 | 37.39 | \% | \$ | 896 | \$ | 288 |
| u.s. | 28 | 0.00 to <0.15 | \% | AAA to A- | \$ | 22,918 | \$ | 17,836 | 66.09 | \% | \$ | 39,908 | 0.05 | \% | 486 | 30.86 | \% | 3.5 | \$ | 5,873 | 14.72 | \% | \$ | 5 |  |  |
|  | 29 | 0.15 to <0.25 |  | B8B+ |  | 6,296 |  | 6,970 | 61.27 |  |  | 10,572 | 0.23 |  | 166 | 27.31 |  | 2.8 |  | 3,458 | 32.71 |  |  | 7 |  |  |
|  | 30 | 0.25 to <0.50 |  | BBB |  | 6,538 |  | 10,205 | 61.49 |  |  | 12,815 | 0.48 |  | 222 | 34.28 |  | 2.8 |  | 7,676 | 59.90 |  |  | 21 |  |  |
|  | 31 | 0.50 to <0.75 |  | BBB- to BB |  | 36,980 |  | 23,801 | 59.90 |  |  | 51,036 | 0.64 |  | 4,572 | 32.75 |  | 3.4 |  | 35,000 | 68.58 |  |  | 107 |  |  |
|  | 32 | 0.75 to <2.50 |  | BB- то B |  | 21,922 |  | 12,245 | 61.08 |  |  | 29,357 | 1.49 |  | 6,841 | 35.64 |  | 3.2 |  | 28,159 | 95.92 |  |  | 159 |  |  |
|  | 33 | 2.50 to <10.00 |  | B- |  | 9,796 |  | 2,370 | 58.86 |  |  | 6,225 | 4.69 |  | 1,483 | 32.32 |  | 3.1 |  | 7,273 | 116.84 |  |  | 94 |  |  |
|  |  | 10.00 to <100.00 |  | CCC + to cc and below |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 34 35 | 100.00 (Defaut) |  | ${ }^{\text {and below }}$ Default |  | $\begin{array}{r}3,594 \\ 155 \\ \hline\end{array}$ |  | $\begin{array}{r}894 \\ 71 \\ \hline\end{array}$ | 47.20 41.42 |  |  | $\begin{array}{r}4,016 \\ 185 \\ \hline\end{array}$ | 30.52 100.00 |  | 590 <br> 141 | 37.37 72.00 |  | 3.0 3.0 |  | 8,638 <br> 1,376 | 215.09 743.78 |  |  | $\begin{array}{r}450 \\ 36 \\ \hline\end{array}$ |  |  |

2 Excludes counterparty exposures (derivative and repo-styl transactions).
${ }_{3}^{2}$ Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
${ }_{4}$ Exposures based on obligors prior to CRM
${ }^{4}$ Exposures after CRM reflecting guaran
Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
EAD
. Weaking Weath Management and Insurance, Wholesale Banking and Corporate segments.
8 No Borrower Risk Rating mapped to the prescribed PD range.

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Sovereign ${ }^{1,2}$


IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Sovereign (Continued) ${ }^{1}$


[^3]IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Bank ${ }^{1}$

| (\$ millions, except as noted) As at | $\underset{\#}{\text { LINE }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | PD scale ${ }^{2}$ |  | External rating |  | Original on-balance sheet gross exposure ${ }^{3}$ |  | Off- balance sheet exposures pre-CCF ${ }^{3}$ | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{4}$ | $\begin{array}{r} \text { Average } \\ \text { PD (\%) } \\ \hline \end{array}$ |  | $\begin{gathered} \text { Number of } \\ \text { obligors }^{5} \end{gathered}$ | Average LGD (\%) |  | Average maturity (years) |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \\ \hline \end{array}$ |  |  | EL |  |
|  | 1 | 0.00 to <0.15 | \% | AAA to BBB- | \$ | 20,003 | \$ | 10,672 | 46.61 | \% | \$ | 25,743 | 0.05 | \% | 424 | 47.94 | \% | 2.2 | \$ | 6,236 | 24.22 | \% | \$ | 6 |  |
|  | 2 | 0.15 to <0.25 |  | BB+ |  | 308 |  | 599 | 41.76 |  |  | 559 | 0.21 |  | 27 | 49.22 |  | 1.7 |  | 234 | 41.86 |  |  | 1 |  |
|  | 3 | 0.25 to <0.50 |  | $B B$ to BB- |  | 148 |  | 51 | 37.41 |  |  | 168 | 0.32 |  | 12 | 37.46 |  | 2.1 |  | 77 | 45.83 |  |  | - |  |
|  | 4 | 0.50 to <0.75 |  | B+ |  | 1,887 |  | 1,918 | 38.17 |  |  | 2,619 | 0.55 |  | 32 | 39.27 |  | 1.7 |  | 1,448 | 55.29 |  |  | 6 |  |
|  | 5 | 0.75 to <2.50 |  | в то B - |  | 324 |  | 13 | 48.82 |  |  | 58 | 1.73 |  | 27 | 25.04 |  | 4.0 |  | 42 | 72.41 |  |  | - |  |
|  | 6 | 2.50 to <10.00 |  | CCC+ |  | - |  | 17 | 88.50 |  |  | 15 | 4.71 |  | 10 | 1.00 |  | 4.2 |  | - | - |  |  | - |  |
|  |  | 10.00 to <100.00 |  | CCC to CC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 7 |  |  | and below |  | - |  | 1 | 50.00 |  |  | 1 | 33.46 |  | 1 | - |  | 1.0 |  | - | - |  |  | - |  |
|  | 8 | 100.00 (Default) |  | Default |  | - |  | - | - |  |  | - | - |  | - | - |  | - |  | - | - |  |  | - |  |
|  | 9 | Total |  |  | \$ | 22,670 | \$ | 13,271 | 45.19 | \% | \$ | 29,163 | 0.11 | \% | 530 | 47.06 | \% | 2.2 | \$ | 8,037 | 27.56 | \% | \$ | 13 | \$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Original |  | Off- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | on-balance |  | balance sheet |  |  |  | EAD post |  |  |  |  |  | Average |  |  |  |  |  |  |  |
|  |  |  |  |  |  | sheet gross |  | exposures | Average |  |  | CRM and | Average |  | Number of | Average |  | maturity |  |  | RWA |  |  |  |  |
|  |  | PD scale ${ }^{2}$ |  | External rating |  | exposure ${ }^{3}$ |  | pre-CCF ${ }^{3}$ | CCF (\%) |  |  | post-CCF ${ }^{4}$ | PD (\%) |  | obligors ${ }^{5}$ | LGD (\%) |  | (years) |  | RWA | density ${ }^{6}$ |  |  | EL |  |
|  | 10 | 0.00 to <0.15 | \% | AAA to BBB- | \$ | 17,945 | \$ | 9,815 | 46.30 | \% | \$ | 22,985 | 0.05 | \% | 402 | 48.65 | \% | 2.4 | \$ | 6,057 | 26.35 | \% | \$ | 6 |  |
|  | 11 | 0.15 to <0.25 |  | BB+ |  | 499 |  | 680 | 40.70 |  |  | 774 | 0.22 |  | 30 | 44.66 |  | 2.2 |  | 339 | 43.80 |  |  | 1 |  |
|  | 12 | 0.25 to <0.50 |  | BB to BB - |  | 308 |  | 51 | 37.39 |  |  | 237 | 0.36 |  | 12 | 39.75 |  | 1.8 |  | 123 | 51.90 |  |  | - |  |
|  | 13 | 0.50 to <0.75 |  | B+ |  | 1,978 |  | 1,781 | 38.13 |  |  | 2,653 | 0.55 |  | 32 | 39.22 |  | 1.8 |  | 1,498 | 56.46 |  |  | 6 |  |
|  | 14 | 0.75 to <2.50 |  | B To B- |  | 324 |  | 16 | 39.31 |  |  | 55 | 1.72 |  | 31 | 36.11 |  | 4.1 |  | 59 | 107.27 |  |  | - |  |
|  | 15 | 2.50 to <10.00 |  | CCC+ |  | 4 |  | 39 | 59.82 |  |  | 27 | 4.71 |  | 9 | 3.24 |  | 2.6 |  | 3 | 11.11 |  |  | - |  |
|  |  | 10.00 to <100.00 |  | CCC to CC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 16 |  |  | and below |  | - |  | 1 | 50.00 |  |  | 1 | 33.46 |  | 1 | - |  | 1.0 |  | - | - |  |  | - |  |
|  | 17 | 100.00 (Default) |  | Default |  | - |  | - | - |  |  | - | - |  | - | - |  | - |  | - | - |  |  | - |  |
|  | 18 | Total |  |  | \$ | 21,058 | \$ | 12,383 | 44.82 | \% | \$ | 26,732 | 0.12 | \% | 515 | 47.45 | \% | 2.3 | \$ | 8,079 | 30.22 | \% | \$ | 13 | \$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | on-balance |  | balance sheet |  |  |  | EAD post |  |  |  |  |  | Average |  |  |  |  |  |  |  |
|  |  |  |  |  |  | sheet gross |  | exposures | Average |  |  | CRM and | Average |  | Number of | Average |  | maturity |  |  | RWA |  |  |  |  |
|  |  | PD scale ${ }^{2}$ |  | External rating |  | exposure ${ }^{3}$ |  | pre-CCF ${ }^{3}$ | CCF (\%) |  |  | post-CCF ${ }^{4}$ | PD (\%) |  | obligors ${ }^{5}$ | LGD (\%) |  | (years) |  | RWA | density ${ }^{6}$ |  |  | EL |  |
|  | 19 | 0.00 to <0.15 | \% | AAA to BBB- | \$ | 20,363 | \$ | 9,605 | 46.98 | \% | \$ | 25,339 | 0.06 | \% | 410 | 50.13 | \% | 2.2 | \$ | 6,314 | 24.92 | \% | \$ | 7 |  |
|  | 20 | 0.15 to <0.25 |  | BB+ |  | 776 |  | 664 | 38.12 |  |  | 1,018 | 0.22 |  | 32 | 49.84 |  | 2.5 |  | 512 | 50.29 |  |  | 1 |  |
|  | 21 | 0.25 to <0.50 |  | BB to BB - |  | 318 |  | 101 | 25.03 |  |  | 244 | 0.44 |  | 12 | 45.04 |  | 1.9 |  | 169 | 69.26 |  |  | 1 |  |
|  | 22 | 0.50 to <0.75 |  | B+ |  | 2,566 |  | 1,486 | 39.10 |  |  | 2,861 | 0.56 |  | 33 | 38.61 |  | 1.9 |  | 1,615 | 56.45 |  |  | 6 |  |
|  | 23 | 0.75 to <2.50 |  | B To B- |  | 50 |  | 14 | 41.19 |  |  | 55 | 1.69 |  | 31 | 36.30 |  | 4.2 |  | 60 | 109.09 |  |  | - |  |
|  | 24 | 2.50 to <10.00 |  | CCC+ |  | 28 |  | 33 | 67.90 |  |  | 50 | 4.71 |  | 13 | 7.53 |  | 2.1 |  | 11 | 22.00 |  |  | - |  |
|  |  | 10.00 to <100.00 |  | CCC to CC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 25 |  |  | and below |  | - |  | 10 | 99.02 |  |  | 10 | 40.76 |  | 1 | 45.00 |  | 1.0 |  | 24 | 240.00 |  |  | 2 |  |
|  | 26 | 100.00 (Default) |  | Default |  | - |  | - | - |  |  | - | - |  | - | - |  | - |  | - | - |  |  | - |  |
|  | 27 | Total |  |  | \$ | 24,101 | \$ | 11,913 | 45.41 | \% | \$ | 29,577 | 0.14 | \% | 529 | 48.86 | \% | 2.1 | \$ | 8,705 | 29.43 | \% | \$ | 17 | \$ |

[^4]IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Bank (Continued) ${ }^{1}$


Excludes CCR exposures (derivative and repo-style transactions).
${ }^{2}$ Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
Exposures based on obligors prior to CRM
Exposures after CRM reflecting guarantor
${ }^{5}$ Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
${ }^{6}$ Total RWA as a percentage of post-CRM EAD.

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Residential Secured
(\$ millions, except as noted) As at


Canada Insured ${ }^{7,8,9}$

Canada Uninsured ${ }^{7,9}$
U.S. Uninsured
tal residential secure

| PD scale ${ }^{1}$ |  | Original on-balance sheet gross exposure ${ }^{2}$ | balance sheet exposures pre-CCF ${ }^{2}$ |  | Average CCF (\%) | EAD post CRM and post-CCF ${ }^{3}$ |  |  | Average PD (\%) | Number of obligors ${ }^{4}$ |  | Average LGD (\%) | Average maturity (years) ${ }^{5}$ |  |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \end{array}$ |  |  | EL |  | Provisions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.00 to <0.15 \% | \% \$ | 39,766 | \$ | 15,265 | 53.39 | \% | \$ | 11,353 | 0.07 | \% | 281,970 | 11.07 | \% |  | \$ | 218 | 1.92 | \% | \$ | 1 | \$ |  |
| 0.15 to <0.25 |  | 6,924 |  | 379 | 48.50 |  |  | 2,748 | 0.19 |  | 32,906 | 10.94 |  |  |  | 118 | 4.29 |  |  | 1 |  |  |
| 0.25 to <0.50 |  | 5,693 |  | 179 | 43.18 |  |  | 2,185 | 0.32 |  | 34,011 | 10.74 |  |  |  | 134 | 6.13 |  |  | 1 |  |  |
| 0.50 to <0.75 |  | 5,565 |  | 545 | 53.16 |  |  | 2,387 | 0.52 |  | 19,424 | 10.42 |  |  |  | 201 | 8.42 |  |  | 1 |  |  |
| 0.75 to <2.50 |  | 6,074 |  | 68 | 45.48 |  |  | 2,488 | 1.23 |  | 17,422 | 10.49 |  |  |  | 369 | 14.83 |  |  | 3 |  |  |
| 2.50 to <10.00 |  | 1,396 |  | 23 | 43.18 |  |  | 482 | 5.45 |  | 6,923 | 10.64 |  |  |  | 173 | 35.89 |  |  | 3 |  |  |
| 10.00 to <100.00 |  | 358 |  | 2 | 67.36 |  |  | 112 | 23.66 |  | 1,951 | 10.70 |  |  |  | 64 | 57.14 |  |  | 3 |  |  |
| 100.00 (Default) |  | 115 |  | - | - |  |  | 17 | 100.00 |  | 642 | 11.15 |  |  |  | 24 | 141.18 |  |  | - |  |  |
| Total |  | 65,891 |  | 16,461 | 53.11 |  |  | 21,772 | 0.61 |  | 395,249 | 10.87 |  |  |  | 1,301 | 5.98 |  |  | 13 |  | 5 |
| 0.00 to <0.15 |  | 191,220 |  | 90,566 | 49.12 |  |  | 235,707 | 0.07 |  | 840,709 | 21.66 |  |  |  | 9,815 | 4.16 |  |  | 35 |  |  |
| 0.15 to <0.25 |  | 49,365 |  | 5,049 | 44.81 |  |  | 51,628 | 0.19 |  | 142,090 | 26.93 |  |  |  | 6,039 | 11.70 |  |  | 27 |  |  |
| 0.25 to <0.50 |  | 35,768 |  | 2,914 | 44.42 |  |  | 37,063 | 0.32 |  | 116,231 | 28.31 |  |  |  | 6,951 | 18.75 |  |  | 34 |  |  |
| 0.50 to <0.75 |  | 15,448 |  | 1,938 | 49.50 |  |  | 16,407 | 0.51 |  | 41,699 | 28.52 |  |  |  | 3,883 | 23.67 |  |  | 24 |  |  |
| 0.75 to <2.50 |  | 18,076 |  | 1,045 | 47.82 |  |  | 18,576 | 1.25 |  | 42,106 | 28.03 |  |  |  | 7,995 | 43.04 |  |  | 64 |  |  |
| 2.50 to <10.00 |  | 3,367 |  | 80 | 44.25 |  |  | 3,402 | 5.36 |  | 11,698 | 23.93 |  |  |  | 2,843 | 83.57 |  |  | 41 |  |  |
| 10.00 to <100.00 |  | 787 |  | 8 | 54.91 |  |  | 791 | 31.65 |  | 2,763 | 18.80 |  |  |  | 772 | 97.60 |  |  | 43 |  |  |
| 100.00 (Default) |  | 240 |  | - | - |  |  | 240 | 100.00 |  | 998 | 19.93 |  |  |  | 452 | 188.33 |  |  | 12 |  |  |
| Total |  | 314,271 |  | 101,600 | 48.76 |  |  | 363,814 | 0.37 |  | 1,198,294 | 23.73 |  |  |  | 38,750 | 10.65 |  |  | 280 |  | 50 |
| 0.00 to <0.15 |  | 39,218 |  | 15,834 | 66.16 |  |  | 49,694 | 0.07 |  | 117,965 | 31.47 |  |  |  | 2,811 | 5.66 |  |  | 11 |  |  |
| 0.15 to <0.25 |  | 9,360 |  | 559 | 38.93 |  |  | 9,578 | 0.19 |  | 26,938 | 31.99 |  |  |  | 1,230 | 12.84 |  |  | 6 |  |  |
| 0.25 to <0.50 |  | 5,772 |  | 403 | 37.26 |  |  | 5,922 | 0.31 |  | 29,831 | 31.20 |  |  |  | 1,066 | 18.00 |  |  | 6 |  |  |
| 0.50 to <0.75 |  | 4,111 |  | 196 | 37.85 |  |  | 4,185 | 0.52 |  | 9,718 | 33.84 |  |  |  | 1,163 | 27.79 |  |  | 7 |  |  |
| 0.75 to <2.50 |  | 5,198 |  | 194 | 34.03 |  |  | 5,264 | 1.32 |  | 15,816 | 34.38 |  |  |  | 2,724 | 51.75 |  |  | 24 |  |  |
| 2.50 to <10.00 |  | 1,030 |  | 63 | 13.05 |  |  | 1,039 | 5.62 |  | 5,845 | 31.54 |  |  |  | 1,110 | 106.83 |  |  | 18 |  |  |
| 10.00 to <100.00 |  | 389 |  | 10 | 11.34 |  |  | 390 | 23.66 |  | 1,957 | 29.00 |  |  |  | 600 | 153.85 |  |  | 25 |  |  |
| 100.00 (Default) |  | 632 |  | - | - |  |  | 632 | 100.00 |  | 3,103 | 22.10 |  |  |  | 460 | 72.78 |  |  | 103 |  |  |
| Total |  | 65,710 |  | 17,259 | 63.70 |  |  | 76,704 | 1.23 |  | 211,173 | 31.75 |  |  |  | 11,164 | 14.55 |  |  | 200 |  | 52 |
|  | \$ | \$ 445,872 | \$ | 135,320 | 51.20 | \% | \$ | 462,290 | 0.53 | \% | 1,804,716 | 24.46 | \% |  | \$ | 51,215 | 11.08 | \% | \$ | 493 | \$ | 107 |

Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS .
${ }^{2}$ Exposures based on obligors prior to CRM
Exposures after CRM reflecting guarantor
${ }^{5}$ Number of retail accounts.
Average maturity is not used in the calculation of retail exposure RWA.
Total RWA as a percentage of post-CRM EAD.
Includes residential mortgages and home equity lines of credit (HELOCs). Insured classification reflects when insurance on the exposure is used for CRM for reduction of RWA.
Includes government insured exposures (CMHC) and exposures insured by corporate entities. For post-CRM, government insured exposures are included in Sovereign.
${ }^{\circ}$ Includes Canadian Personal and Commercial Banking, Wealth Management and Insurance, Wholesale Banking and Corporate segments.

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Residential Secured (Continued)
(\$ millions, except as noted) As at



## otal residential secure

28
Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS
${ }^{2}$ Exposures based on obligors prior to CRM
Exposures after CRM reflecting guarantor
Number of retail accounts
${ }^{5}$ Average maturity is not used in the calculation of retail exposure RWA

- Total RWA as a percentage of post-CRM EAD.

Includes residential mortgages and home equity lines of credit (HELOCs). Insured classification reflects when insurance on the exposure is used for CRM for reduction of RWA.
Includes government insured exposures (CMHC) and exposures insured by corporate entities. For post-CRM, government insured exposures are included in Sovereign.
${ }^{\ominus}$ Includes Canadian Personal and Commercial Banking, Wealth Management and Insurance, Wholesale Banking and Corporate segments

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Residential Secured (Continued)
(\$ millions, except as noted) As at



## otal residential secure

28
Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS
${ }^{2}$ Exposures based on obligors prior to CRM
Exposures after CRM reflecting guarantor
Number of retail accounts
${ }^{5}$ Average maturity is not used in the calculation of retail exposure RWA

- Total RWA as a percentage of post-CRM EAD.

Includes residential mortgages and home equity lines of credit (HELOCs). Insured classification reflects when insurance on the exposure is used for CRM for reduction of RWA.
Includes government insured exposures (CMHC) and exposures insured by corporate entities. For post-CRM, government insured exposures are included in Sovereign.
${ }^{\ominus}$ Includes Canadian Personal and Commercial Banking, Wealth Management and Insurance, Wholesale Banking and Corporate segments

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Residential Secured (Continued)
(\$ millions, except as noted) As at


| PD scale ${ }^{1}$ |  | Original on-balance sheet gross exposure ${ }^{2}$ |  | balance sheet exposures pre-CCF ${ }^{2}$ | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{3}$ | Average PD (\%) |  | Number of obligors ${ }^{4}$ | Average <br> LGD (\%) |  | Average maturity (years) ${ }^{5}$ |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \end{array}$ |  |  | EL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.00 to <0.15 | \% \$ | \$ 44,119 | \$ | 15,838 | 53.34 | \% | \$ | 11,850 | 0.06 | \% | 305,451 | 8.76 | \% |  | \$ | 180 | 1.52 | \% | \$ | 1 | \$ |  |
| 0.15 to <0.25 |  | 7,253 |  | 344 | 50.01 |  |  | 2,830 | 0.19 |  | 34,505 | 9.49 |  |  |  | 111 | 3.92 |  |  | 1 |  |  |
| 0.25 to <0.50 |  | 5,960 |  | 138 | 48.00 |  |  | 2,256 | 0.32 |  | 35,410 | 9.49 |  |  |  | 128 | 5.67 |  |  | 1 |  |  |
| 0.50 to <0.75 |  | 4,015 |  | 466 | 53.18 |  |  | 1,487 | 0.52 |  | 15,711 | 9.49 |  |  |  | 119 | 8.00 |  |  | 1 |  |  |
| 0.75 to <2.50 |  | 4,763 |  | 47 | 46.98 |  |  | 1,703 | 1.27 |  | 16,757 | 9.48 |  |  |  | 245 | 14.39 |  |  | 2 |  |  |
| 2.50 to <10.00 |  | 1,247 |  | 20 | 44.51 |  |  | 378 | 5.53 |  | 6,796 | 8.90 |  |  |  | 120 | 31.75 |  |  | 2 |  |  |
| 10.00 to <100.00 |  | 282 |  | 2 | 81.41 |  |  | 67 | 22.94 |  | 1,753 | 8.42 |  |  |  | 32 | 47.76 |  |  | 1 |  |  |
| 100.00 (Default) |  | 114 |  | - | - |  |  | 23 | 100.00 |  | 665 | 8.49 |  |  |  | 26 | 113.04 |  |  | - |  |  |
| Total |  | 67,753 |  | 16,855 | 53.20 |  |  | 20,594 | 0.53 |  | 417,048 | 9.05 |  |  |  | 961 | 4.67 |  |  | 9 |  | 5 |
| 0.00 to <0.15 |  | 195,563 |  | 85,636 | 48.82 |  |  | 237,370 | 0.06 |  | 849,890 | 20.62 |  |  |  | 7,867 | 3.31 |  |  | 29 |  |  |
| 0.15 to <0.25 |  | 40,705 |  | 4,311 | 45.80 |  |  | 42,679 | 0.19 |  | 125,012 | 25.44 |  |  |  | 4,488 | 10.52 |  |  | 21 |  |  |
| 0.25 to <0.50 |  | 24,586 |  | 3,489 | 47.99 |  |  | 26,260 | 0.32 |  | 100,930 | 26.05 |  |  |  | 4,064 | 15.48 |  |  | 22 |  |  |
| 0.50 to <0.75 |  | 12,675 |  | - | - |  |  | 12,675 | 0.51 |  | 25,742 | 26.55 |  |  |  | 2,827 | 22.30 |  |  | 17 |  |  |
| 0.75 to <2.50 |  | 13,514 |  | 882 | 49.69 |  |  | 13,952 | 1.25 |  | 34,858 | 25.47 |  |  |  | 5,294 | 37.94 |  |  | 43 |  |  |
| 2.50 to <10.00 |  | 2,429 |  | 70 | 42.80 |  |  | 2,459 | 5.34 |  | 9,874 | 20.23 |  |  |  | 1,709 | 69.50 |  |  | 25 |  |  |
| 10.00 to <100.00 |  | 501 |  | 8 | 59.43 |  |  | 506 | 30.37 |  | 2,265 | 13.91 |  |  |  | 381 | 75.30 |  |  | 20 |  |  |
| 100.00 (Default) |  | 165 |  | - | - |  |  | 165 | 100.00 |  | 759 | 19.23 |  |  |  | 309 | 187.27 |  |  | 8 |  |  |
| Total |  | 290,138 |  | 94,396 | 48.65 |  |  | 336,066 | 0.29 |  | 1,149,330 | 22.07 |  |  |  | 26,939 | 8.02 |  |  | 185 |  | 41 |
| 0.00 to <0.15 |  | 35,315 |  | 14,367 | 65.99 |  |  | 44,796 | 0.06 |  | 117,931 | 29.70 |  |  |  | 2,147 | 4.79 |  |  | 8 |  |  |
| 0.15 to <0.25 |  | 6,872 |  | 547 | 38.61 |  |  | 7,083 | 0.19 |  | 25,765 | 28.17 |  |  |  | 820 | 11.58 |  |  | 4 |  |  |
| 0.25 to <0.50 |  | 4,446 |  | 398 | 37.98 |  |  | 4,597 | 0.31 |  | 24,448 | 27.71 |  |  |  | 756 | 16.45 |  |  | 4 |  |  |
| 0.50 to <0.75 |  | 3,822 |  | 224 | 37.11 |  |  | 3,905 | 0.53 |  | 8,671 | 33.26 |  |  |  | 1,111 | 28.45 |  |  | 7 |  |  |
| 0.75 to <2.50 |  | 4,354 |  | 220 | 31.15 |  |  | 4,422 | 1.31 |  | 14,633 | 31.07 |  |  |  | 2,124 | 48.03 |  |  | 18 |  |  |
| 2.50 to <10.00 |  | 683 |  | 67 | 13.03 |  |  | 692 | 4.91 |  | 5,064 | 31.19 |  |  |  | 739 | 106.79 |  |  | 11 |  |  |
| 10.00 to <100.00 |  | 511 |  | 12 | 10.66 |  |  | 513 | 18.54 |  | 1,856 | 23.88 |  |  |  | 657 | 128.07 |  |  | 23 |  |  |
| 100.00 (Default) |  | 615 |  | - | - |  |  | 615 | 100.00 |  | 3,321 | 21.44 |  |  |  | 416 | 67.64 |  |  | 100 |  |  |
| Total |  | 56,618 |  | 15,835 | 63.18 |  |  | 66,623 | 1.32 |  | 201,689 | 29.59 |  |  |  | 8,770 | 13.16 |  |  | 175 |  | 53 |
|  |  | \$ 414,509 | \$ | 127,086 | 51.07 | \% | \$ | 423,283 | 0.47 | \% | 1,768,067 | 22.55 | \% |  | \$ | 36,670 | 8.66 | \% | \$ | 369 | \$ | 99 |

## otal residential secure

Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS
${ }^{2}$ Exposures based on obligors prior to CRM
Exposures after CRM reflecting guarantor
Number of retail accounts
${ }^{5}$ Average maturity is not used in the calculation of retail exposure RWA
Total RWA as a percentage of post-CRM EAD.
Includes residential mortgages and HELOCs. Insured classification reflects when insurance on the exposure is used for CRM for reduction of RWA.
Includes government insured exposures (CMHC) and exposures insured by corporate entities. For post-CRM, government insured exposures are included in Sovereign.
${ }^{\ominus}$ Includes Canadian Personal and Commercial Banking, Wealth Management and Insurance, Wholesale Banking and Corporate segments

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Residential Secured (Continued)
(\$ millions, except as noted)
As at

| $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ | $\begin{gathered} 2022 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PD scale ${ }^{1}$ |  | Original -balance eet gross exposure ${ }^{2}$ |  | balance sheet exposures pre-CCF ${ }^{2}$ | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{3}$ | Average PD (\%) |  | Number of obligors ${ }^{4}$ | Average LGD (\%) |  | Average maturity (years) ${ }^{5}$ |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \\ \hline \end{array}$ |  |  | EL |  | Provisions |
| 1 | 0.00 to <0.15 \% | \$ | 46,748 | \$ | 17,373 | 52.46 | \% | \$ | 11,838 | 0.06 | \% | 322,046 | 8.82 | \% |  | \$ | 183 | 1.55 | \% | \$ | 1 | \$ |  |
| 2 | 0.15 to <0.25 |  | 7,559 |  | 338 | 49.64 |  |  | 2,793 | 0.19 |  | 37,935 | 9.50 |  |  |  | 109 | 3.90 |  |  | 1 |  |  |
| 3 | 0.25 to <0.50 |  | 6,054 |  | 146 | 49.14 |  |  | 2,346 | 0.32 |  | 33,955 | 9.56 |  |  |  | 134 | 5.71 |  |  | 1 |  |  |
| 4 | 0.50 to <0.75 |  | 4,127 |  | 446 | 52.96 |  |  | 1,641 | 0.50 |  | 15,748 | 9.61 |  |  |  | 130 | 7.92 |  |  | 1 |  |  |
| 5 | 0.75 to <2.50 |  | 4,642 |  | 46 | 48.30 |  |  | 1,627 | 1.22 |  | 16,265 | 9.55 |  |  |  | 229 | 14.07 |  |  | 2 |  |  |
| 6 | 2.50 to <10.00 |  | 1,083 |  | 15 | 41.31 |  |  | 311 | 5.56 |  | 6,218 | 8.95 |  |  |  | 100 | 32.15 |  |  | 2 |  |  |
| 7 | 10.00 to <100.00 |  | 273 |  | 1 | 46.31 |  |  | 55 | 22.78 |  | 1,695 | 8.11 |  |  |  | 25 | 45.45 |  |  | 1 |  |  |
| 8 | 100.00 (Default) |  | 109 |  | - | - |  |  | 20 | 100.00 |  | 645 | 8.71 |  |  |  | 23 | 115.00 |  |  | - |  |  |
| 9 | Total |  | 70,595 |  | 18,365 | 52.37 |  |  | 20,631 | 0.48 |  | 434,507 | 9.12 |  |  |  | 933 | 4.52 |  |  | 9 |  | 5 |
| 10 | 0.00 to <0.15 |  | 198,430 |  | 80,709 | 48.96 |  |  | 237,943 | 0.06 |  | 849,891 | 21.65 |  |  |  | 8,373 | 3.52 |  |  | 30 |  |  |
| 11 | 0.15 to <0.25 |  | 39,724 |  | 4,634 | 46.93 |  |  | 41,899 | 0.19 |  | 125,178 | 26.11 |  |  |  | 4,519 | 10.79 |  |  | 21 |  |  |
| 12 | 0.25 to <0.50 |  | 23,156 |  | 3,846 | 49.97 |  |  | 25,078 | 0.32 |  | 94,067 | 29.33 |  |  |  | 4,363 | 17.40 |  |  | 23 |  |  |
| 13 | 0.50 to <0.75 |  | 12,237 |  | - | - |  |  | 12,237 | 0.51 |  | 24,617 | 29.49 |  |  |  | 3,034 | 24.79 |  |  | 18 |  |  |
| 14 | 0.75 to <2.50 |  | 11,898 |  | 767 | 51.09 |  |  | 12,289 | 1.22 |  | 30,863 | 27.03 |  |  |  | 4,850 | 39.47 |  |  | 38 |  |  |
| 15 | 2.50 to <10.00 |  | 1,950 |  | 55 | 42.12 |  |  | 1,973 | 5.35 |  | 8,364 | 20.73 |  |  |  | 1,403 | 71.11 |  |  | 21 |  |  |
| 16 | 10.00 to <100.00 |  | 439 |  | 4 | 45.53 |  |  | 441 | 30.56 |  | 2,005 | 13.61 |  |  |  | 324 | 73.47 |  |  | 18 |  |  |
| 17 | 100.00 (Default) |  | 144 |  | - | - |  |  | 144 | 100.00 |  | 688 | 18.46 |  |  |  | 251 | 174.31 |  |  | 8 |  |  |
| 18 | Total |  | 287,978 |  | 90,015 | 48.91 |  |  | 332,004 | 0.27 |  | 1,135,673 | 23.26 |  |  |  | 27,117 | 8.17 |  |  | 177 |  | 43 |
| 19 | 0.00 to <0.15 |  | 33,473 |  | 14,273 | 66.02 |  |  | 42,897 | 0.06 |  | 113,376 | 29.34 |  |  |  | 2,016 | 4.70 |  |  | 7 |  |  |
| 20 | 0.15 to <0.25 |  | 7,153 |  | 570 | 39.95 |  |  | 7,381 | 0.19 |  | 26,481 | 27.78 |  |  |  | 845 | 11.45 |  |  | 4 |  |  |
| 21 | 0.25 to <0.50 |  | 4,647 |  | 436 | 39.39 |  |  | 4,819 | 0.32 |  | 23,765 | 27.71 |  |  |  | 793 | 16.46 |  |  | 4 |  |  |
| 22 | 0.50 to <0.75 |  | 4,219 |  | 235 | 38.68 |  |  | 4,310 | 0.52 |  | 9,066 | 33.17 |  |  |  | 1,220 | 28.31 |  |  | 7 |  |  |
| 23 | 0.75 to <2.50 |  | 4,392 |  | 234 | 33.71 |  |  | 4,471 | 1.30 |  | 14,600 | 30.31 |  |  |  | 2,093 | 46.81 |  |  | 18 |  |  |
| 24 | 2.50 to <10.00 |  | 626 |  | 63 | 11.76 |  |  | 633 | 4.96 |  | 4,830 | 31.56 |  |  |  | 685 | 108.21 |  |  | 10 |  |  |
| 25 | 10.00 to <100.00 |  | 495 |  | 11 | 9.65 |  |  | 496 | 18.75 |  | 1,708 | 23.52 |  |  |  | 612 | 123.39 |  |  | 23 |  |  |
| 26 | 100.00 (Default) |  | 676 |  | - | - |  |  | 676 | 100.00 |  | 3,446 | 22.27 |  |  |  | 454 | 67.16 |  |  | 117 |  |  |
| 27 | Total |  | 55,681 |  | 15,822 | 63.21 |  |  | 65,683 | 1.42 |  | 197,272 | 29.27 |  |  |  | 8,718 | 13.27 |  |  | 190 |  | 58 |
| 28 |  | \$ | 414,254 | \$ | 124,202 | 51.24 | \% | \$ | 418,318 | 0.46 | \% | 1,767,452 | 23.42 | \% |  | \$ | 36,768 | 8.79 | \% | \$ | 376 | \$ | 106 |

## tal residential secured

3 disclosure requirements by $B C B S$
Frescribed PD bands based ors prior to CRM
Exposures based on obligors prior to CRM
Exposures after CRM reflecting guarantor.
Number of retail accounts
Average maturity is not used in the calculation of retail exposure RWA.
Total RWA as a percentage of post-CRM EAD.
Includes residential mortgages and HELOCs. Insured classification reflects when insurance on the exposure is used for CRM for reduction of RWA.
Includes government insured exposures (CMHC) and exposures insured by corporate entities. For post-CRM, government insured exposures are included in Sovereign.
Includes Canadian Personal and Commercial Banking, Wealth Management and Insurance, Wholesale Banking and Corporate segments

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Qualifying Revolving Retail (QRR)
(\$ millions, except as noted) As at


2023
Q2


[^5]IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Qualifying Revolving Retail (QRR) (Continued)

| (\$ millions, except as noted) As at | $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | PD scale ${ }^{1}$ |  |  | Original balance gross posure ${ }^{2}$ |  | Off- balance sheet exposures pre-CCF | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{3}$ | Average PD (\%) |  | Number of obligors ${ }^{4}$ | Average LGD (\%) |  | Average maturity (years) ${ }^{5}$ |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \\ \hline \end{array}$ |  |  | EL |  | Provisions |
|  | 1 | 0.00 to <0.15 | \% | \$ | 5,116 | \$ | 151,389 | 60.17 | \% | \$ | 96,212 | 0.05 | \% | 17,529,036 | 87.07 | \% |  | \$ | 2,718 | 2.83 | \% | \$ | 38 |  |  |
|  | 2 | 0.15 to <0.25 |  |  | 2,107 |  | 15,067 | 60.70 |  |  | 11,253 | 0.19 |  | 2,198,508 | 88.19 |  |  |  | 1,093 | 9.71 |  |  | 19 |  |  |
|  | 3 | 0.25 to <0.50 |  |  | 2,635 |  | 11,977 | 60.42 |  |  | 9,872 | 0.32 |  | 2,677,569 | 89.12 |  |  |  | 1,454 | 14.73 |  |  | 28 |  |  |
|  | 4 | 0.50 to <0.75 |  |  | 3,320 |  | 10,323 | 58.44 |  |  | 9,353 | 0.53 |  | 1,537,546 | 89.52 |  |  |  | 2,067 | 22.10 |  |  | 44 |  |  |
|  | 5 | 0.75 to <2.50 |  |  | 13,389 |  | 19,026 | 60.98 |  |  | 24,989 | 1.49 |  | 4,709,776 | 91.03 |  |  |  | 12,279 | 49.14 |  |  | 340 |  |  |
|  | 6 | 2.50 to <10.00 |  |  | 8,732 |  | 3,626 | 63.00 |  |  | 11,016 | 5.40 |  | 3,217,547 | 90.99 |  |  |  | 13,288 | 120.62 |  |  | 541 |  |  |
|  | 7 | 10.00 to <100.00 |  |  | 1,945 |  | 287 | 62.66 |  |  | 2,125 | 29.31 |  | 1,257,374 | 89.75 |  |  |  | 5,144 | 242.07 |  |  | 563 |  |  |
|  | 8 | 100.00 (Default) |  |  | 90 |  | - | - |  |  | 90 | 100.00 |  | 22,027 | 85.43 |  |  |  | 52 | 57.78 |  |  | 73 |  |  |
|  | 9 | Total |  | \$ | 37,334 | \$ | 211,695 | 60.26 | \% | \$ | 164,910 | 1.11 | \% | 33,149,383 | 88.30 | \% |  | \$ | 38,095 | 23.10 | \% | \$ | 1,646 |  | 273 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Off- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | balance |  | balance sheet |  |  |  | EAD post |  |  |  |  |  | Average |  |  |  |  |  |  |  |  |
|  |  |  |  |  | et gross |  | exposures | Average |  |  | CRM and | Average |  | Number of | Average |  | maturity |  |  | RWA |  |  |  |  |  |
|  |  | PD scale ${ }^{1}$ |  |  | posure ${ }^{2}$ |  | pre-CCF ${ }^{2}$ | CCF (\%) |  |  | post-CCF ${ }^{3}$ | PD (\%) |  | obligors ${ }^{4}$ | LGD (\%) |  | (years) ${ }^{5}$ |  | RWA | density ${ }^{6}$ |  |  | EL |  | Provisions |
|  | 10 | 0.00 to <0.15 | \% | \$ | 6,602 | \$ | 150,586 | 60.05 | \% | \$ | 97,030 | 0.05 | \% | 18,104,945 | 87.25 | \% |  | \$ | 2,741 | 2.82 | \% | \$ | 39 |  |  |
|  | 11 | 0.15 to <0.25 |  |  | 2,397 |  | 15,252 | 60.30 |  |  | 11,594 | 0.19 |  | 2,229,300 | 88.88 |  |  |  | 1,134 | 9.78 |  |  | 20 |  |  |
|  | 12 | 0.25 to <0.50 |  |  | 2,914 |  | 11,939 | 59.86 |  |  | 10,061 | 0.32 |  | 2,670,297 | 89.78 |  |  |  | 1,493 | 14.84 |  |  | 29 |  |  |
|  | 13 | 0.50 to <0.75 |  |  | 3,613 |  | 10,213 | 57.88 |  |  | 9,524 | 0.53 |  | 1,568,139 | 90.13 |  |  |  | 2,117 | 22.23 |  |  | 45 |  |  |
|  | 14 | 0.75 to <2.50 |  |  | 14,231 |  | 18,589 | 59.88 |  |  | 25,362 | 1.48 |  | 4,534,137 | 91.78 |  |  |  | 12,521 | 49.37 |  |  | 346 |  |  |
|  | 15 | 2.50 to <10.00 |  |  | 8,988 |  | 3,403 | 60.77 |  |  | 11,056 | 5.39 |  | 3,101,684 | 91.52 |  |  |  | 13,396 | 121.16 |  |  | 545 |  |  |
|  | 16 | 10.00 to <100.00 |  |  | 1,849 |  | 256 | 59.45 |  |  | 2,002 | 28.45 |  | 1,175,237 | 90.57 |  |  |  | 4,865 | 243.01 |  |  | 521 |  |  |
|  | 17 | 100.00 (Default) |  |  | 93 |  | - | - |  |  | 93 | 100.00 |  | 19,492 | 84.92 |  |  |  | 53 | 56.99 |  |  | 75 |  |  |
|  | 18 | Total |  | \$ | 40,687 | \$ | 210,238 | 59.95 | \% | \$ | 166,722 | 1.07 | \% | 33,403,231 | 88.69 | \% |  | \$ | 38,320 | 22.98 | \% | \$ | 1,620 |  | 226 |

[^6]IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Other Retail
(\$ millions, except as noted) As at

| $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PD scale ${ }^{1}$ | Original on-balance sheet gross exposure ${ }^{2}$ |  | Off- balance sheet exposures pre-CCF ${ }^{2}$ | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{3}$ | Average PD (\%) |  | Number of obligors ${ }^{4}$ | Average LGD (\%) |  | Average maturity (years) ${ }^{5}$ |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \end{array}$ |  |  | EL |  | Provisions |
| 1 | 0.00 to <0.15 \% | 10,175 | \$ | 5,241 | 70.17 | \% | \$ | 13,853 | 0.08 | \% | 628,536 | 42.72 | \% |  | \$ | 1,257 | 9.07 | \% | \$ | 5 |  |  |
| 2 | 0.15 to <0.25 | 7,586 |  | 3,542 | 44.00 |  |  | 9,145 | 0.20 |  | 350,925 | 42.76 |  |  |  | 1,564 | 17.10 |  |  | 8 |  |  |
| 3 | 0.25 to <0.50 | 16,090 |  | 1,105 | 67.92 |  |  | 16,840 | 0.32 |  | 478,718 | 34.82 |  |  |  | 3,415 | 20.28 |  |  | 19 |  |  |
| 4 | 0.50 to <0.75 | 9,039 |  | 1,070 | 67.77 |  |  | 9,753 | 0.53 |  | 272,887 | 43.07 |  |  |  | 3,126 | 32.05 |  |  | 22 |  |  |
| 5 | 0.75 to <2.50 | 29,523 |  | 1,775 | 63.78 |  |  | 30,216 | 1.53 |  | 837,865 | 49.41 |  |  |  | 17,262 | 57.13 |  |  | 232 |  |  |
| 6 | 2.50 to <10.00 | 14,732 |  | 502 | 60.14 |  |  | 14,914 | 5.45 |  | 522,252 | 55.44 |  |  |  | 12,356 | 82.85 |  |  | 451 |  |  |
| 7 | 10.00 to <100.00 | 3,363 |  | 61 | 53.60 |  |  | 3,380 | 26.22 |  | 142,482 | 52.75 |  |  |  | 3,894 | 115.21 |  |  | 464 |  |  |
| 8 | 100.00 (Default) | 562 |  | 4 | 100.00 |  |  | 511 | 100.00 |  | 17,867 | 47.79 |  |  |  | 460 | 90.02 |  |  | 208 |  |  |
| 9 | Total | 91,070 | \$ | 13,300 | 61.52 | \% | \$ | 98,612 | 2.85 | \% | 3,251,532 | 45.75 | \% |  | \$ | 43,334 | 43.94 | \% | \$ | 1,409 | \$ | 184 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 202 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | PD scale ${ }^{1}$ | Original on-balance sheet gross exposure ${ }^{2}$ |  | Offbalance sheet exposures pre-CCF ${ }^{2}$ | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{3}$ | Average PD (\%) |  | Number of obligors ${ }^{4}$ | Average <br> LGD (\%) |  | Average maturity (years) ${ }^{5}$ |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \\ \hline \end{array}$ |  |  | EL |  | Provisions |
| 10 | 0.00 to <0.15 \% | 10,261 | \$ | 5,192 | 70.28 | \% | , | 13,910 | 0.08 | \% | 640,642 | 42.84 | \% |  | \$ | 1,258 | 9.04 | \% | \$ | 5 |  |  |
| 11 | 0.15 to <0.25 | 7,242 |  | 3,303 | 44.09 |  |  | 8,698 | 0.20 |  | 348,734 | 42.76 |  |  |  | 1,487 | 17.10 |  |  | 7 |  |  |
| 12 | 0.25 to <0.50 | 15,408 |  | 1,150 | 65.14 |  |  | 16,157 | 0.32 |  | 479,208 | 35.10 |  |  |  | 3,292 | 20.38 |  |  | 18 |  |  |
| 13 | 0.50 to <0.75 | 8,644 |  | 1,040 | 67.73 |  |  | 9,340 | 0.53 |  | 274,183 | 42.94 |  |  |  | 2,985 | 31.96 |  |  | 21 |  |  |
| 14 | 0.75 to <2.50 | 28,338 |  | 1,732 | 61.86 |  |  | 28,949 | 1.52 |  | 757,187 | 49.16 |  |  |  | 16,437 | 56.78 |  |  | 220 |  |  |
| 15 | 2.50 to <10.00 | 13,412 |  | 486 | 59.44 |  |  | 13,561 | 5.45 |  | 561,718 | 55.22 |  |  |  | 11,193 | 82.54 |  |  | 409 |  |  |
| 16 | 10.00 to <100.00 | 3,013 |  | 63 | 50.53 |  |  | 3,029 | 25.86 |  | 133,561 | 52.83 |  |  |  | 3,489 | 115.19 |  |  | 411 |  |  |
| 17 | 100.00 (Default) | 497 |  | 4 | 100.00 |  |  | 453 | 100.00 |  | 16,161 | 47.90 |  |  |  | 422 | 93.16 |  |  | 183 |  |  |
| 18 | Total | 86,815 | \$ | 12,970 | 61.33 | \% | \$ | 94,097 | 2.71 | \% | 3,211,394 | 45.59 | \% |  | \$ | 40,563 | 43.11 | \% | \$ | 1,274 | \$ | 165 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 202 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | PD scale ${ }^{1}$ | Original on-balance sheet gross exposure ${ }^{2}$ |  | balance shee exposures pre-CCF ${ }^{2}$ | Average CCF (\%) |  |  | EAD post CRM and post-CCF ${ }^{3}$ | Average PD (\%) |  | Number of obligors ${ }^{4}$ | Average <br> LGD (\%) |  | Average maturity (years) ${ }^{5}$ |  | RWA | $\begin{array}{r} \text { RWA } \\ \text { density }^{6} \\ \hline \end{array}$ |  |  | EL |  | Provisions |
| 19 | 0.00 to <0.15 \% | 10,369 | \$ | 5,123 | 70.45 | \% | \$ | 13,978 | 0.08 | \% | 644,312 | 42.75 | \% |  | \$ | 1,259 | 9.01 | \% | \$ | 5 |  |  |
| 20 | 0.15 to <0.25 | 7,223 |  | 3,302 | 44.11 |  |  | 8,680 | 0.20 |  | 350,250 | 42.20 |  |  |  | 1,464 | 16.87 |  |  | 7 |  |  |
| 21 | 0.25 to <0.50 | 15,078 |  | 1,176 | 65.14 |  |  | 15,844 | 0.32 |  | 478,718 | 35.25 |  |  |  | 3,251 | 20.52 |  |  | 18 |  |  |
| 22 | 0.50 to <0.75 | 8,522 |  | 1,047 | 67.03 |  |  | 9,214 | 0.53 |  | 272,954 | 43.02 |  |  |  | 2,952 | 32.04 |  |  | 21 |  |  |
| 23 | 0.75 to <2.50 | 27,750 |  | 1,742 | 62.36 |  |  | 28,366 | 1.52 |  | 757,438 | 49.06 |  |  |  | 16,065 | 56.63 |  |  | 215 |  |  |
| 24 | 2.50 to <10.00 | 12,943 |  | 487 | 58.55 |  |  | 13,057 | 5.45 |  | 538,405 | 54.94 |  |  |  | 10,722 | 82.12 |  |  | 391 |  |  |
| 25 | 10.00 to <100.00 | 2,892 |  | 55 | 54.23 |  |  | 2,907 | 25.83 |  | 133,187 | 52.72 |  |  |  | 3,350 | 115.24 |  |  | 396 |  |  |
| 26 | 100.00 (Default) | 470 |  | 4 | 100.00 |  |  | 434 | 100.00 |  | 15,621 | 47.82 |  |  |  | 398 | 91.71 |  |  | 176 |  |  |
| 27 | Total | 85,247 | \$ | 12,936 | 61.37 | \% | \$ | 92,480 | 2.66 | \% | 3,190,885 | 45.44 | \% |  | \$ | 39,461 | 42.67 | \% | \$ | 1,229 | \$ | 159 |

Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
Exposures based on obligors prior to CRM
Exposures after CRM reflecting guarantor
${ }^{4}$ Number of retail accounts.
Average maturity is not used in the calculation of retail exposure RWA.
${ }^{6}$ Total RWA as a percentage of post-CRM EAD.

IRB - Credit Risk Exposures by Portfolio and PD Range (CR6) - Other Retail (Continued)

| (\$ millions, except as noted) | LINE | 2023 |
| :--- | :---: | :---: |
| As at | $\#$ | Q1 |



[^7]Analysis of Counterparty Credit Risk (CCR) Exposure by Approach (CCR1) ${ }^{1}$
(\$ millions, except as noted)
As at

SA-CCR (for derivatives)
Current exposure method (for derivatives)
Internal model method (for derivatives and SFTs)
Simple approach for credit risk mitigation (for SFTs)
Comprehensive approach for credit risk mitigation (for SFTs) VaR for SFTs
Total


SA-CCR (for derivatives)
Current exposure method (for derivatives)
Internal model method (for derivatives and SFTs) Simple approach for credit risk mitigation (for SFTs) Comprehensive approach for credit risk mitigation (for SFTs) VaR for SFTs
Total

## SA-CCR (for derivatives)

Current exposure method (for derivatives)
Internal model method (for derivatives and SFTs)
Simple approach for credit risk mitigation (for SFTs)
Comprehensive approach for credit risk mitigation (for SFTs) VaR for SFTs
Total
Excludes exposures and RWA for QCCPs and CVA
${ }^{2}$ Collateral for repo-style transactions is reflected in the LGD as opposed to EAD.

Analysis of Counterparty Credit Risk (CCR) Exposure by Approach (CCR1) (Continued) ${ }^{1}$
(\$ millions, except as noted) As at

SA-CCR (for derivatives)
Current exposure method (for derivatives)
Internal model method (for derivatives and SFTs)
Simple approach for credit risk mitigation (for SFTs)
Comprehensive approach for credit risk mitigation (for SFTs)
VaR for SFTs
Total

${ }^{1}$ Excludes exposures and RWA for QCCPs and CVA.
${ }^{2}$ Collateral for repo-style transactions is reflected in the LGD as opposed to EAD.

Credit Valuation Adjustment (CVA) Capital Charge (CCR2)

## (\$ million

As at

Total portfolios subject to the Advanced CVA capital charge i) $V a R$ component (including the $3 x$ multiplier)
ii) Stressed VaR component (including the $3 \times$ multiplier) All portfolios subject to the standardized CVA capital charge Total subject to the CVA capital charge
tal portfolios subject to the Advanced CVA capital charge i) VaR component (including the $3 \times$ multiplier)
ii) Stressed VaR component (including the $3 \times$ multiplier) ii) Stressed VaR component (including the $3 \times$ multiplier) Total subject to the CVA capital charge

Standardized Approach - CCR Exposures by Regulatory Portfolio and Risk Weights (CCR3)
(\$ millions)
As at

## Asset classes

Sovereigns and their central banks
Public sector entities
Multilateral development banks
Banks
Of which: securities firms and other financial institutions as Bank Corporates

Of which: securities firms and other financial institutions as Corporate Of which: specialised lending
Regulatory retail portfolios
Real estate
Of which: land acquisition, development and construction Other assets ${ }^{1}$
Total

## Asset classes

Sovereigns and their central banks
Public sector entities
Multilateral development banks
Banks
Of which: securities firms and other financial institutions as Bank Corporates
Of which: securities firms and other financial institutions as Corporate Of which: specialised lending
Regulatory retail portfolios
Real estate
Of which: land acquisition, development and construction Other assets ${ }^{1}$
Total

Excludes exposures subject to direct capital deductions and threshold deductions.

Standardized Approach - CCR Exposures by Regulatory Portfolio and Risk Weights (CCR3) (Continued)

## (\$ milition

## Asset classes

Sovereigns and their central bank
Public sector entities
Multilateral development banks
Banks
Of which: securities firms and other financial institutions as Bank
Corporates
Of which: securities firms and other financial institutions as Corporate Of which: specialised lending
Regulatory retail portfolios
Real estate
Of which: land acquisition, development and construction
Total


Excludes exposures subject to direct capital deductions and threshold deductions

CCR Exposures by Portfolio and PD Scale (CCR4) - Corporate ${ }^{1}$


1 Collateral for repo-style transactions is reflected in the LGD as opposed to EAD.
2 Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS
${ }^{3}$ Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
4 Total RWA as a percentage of post-CRM EAD.

CCR Exposures by Portfolio and PD Scale (CCR4) - Corporate (Continued) ${ }^{1}$
(\$ millions, except as noted)
As at


CCR4: IRB - CCR exposures by portfolio and PD scale (FIRB)

|  | PD scale ${ }^{2}$ |  | EAD post-CRM | Average PD |  | Number of obligors ${ }^{3}$ | Average LGD | Average maturity (years) |  |  | RWA | RWA density ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 0.00 to <0.15 \% | \$ | 181,788 | 0.07 | \% | 3,597 | 9.76 | \% | 0.4 | \$ | 5,639 | 3.10 | \% |
| 11 | 0.15 to <0.25 |  | 15,548 | 0.20 |  | 112 | 5.27 |  | 0.2 |  | 573 | 3.69 |  |
| 12 | 0.25 to <0.50 |  | 11,462 | 0.33 |  | 146 | 3.43 |  | 0.2 |  | 436 | 3.80 |  |
| 13 | 0.50 to <0.75 |  | 1,304 | 0.69 |  | 31 | 6.04 |  | 0.3 |  | 108 | 8.28 |  |
| 14 | 0.75 to <2.50 |  | 2,094 | 2.08 |  | 146 | 16.00 |  | 0.5 |  | 693 | 33.09 |  |
| 15 | 2.50 to <10.00 |  | 53 | 9.82 |  | 3 | 54.60 |  | 2.0 |  | 116 | 218.87 |  |
| 16 | 10.00 to <100.00 |  | - | 19.03 |  | 1 | 40.00 |  | 1.0 |  | - | - |  |
| 17 | 100.00 (Default) |  | - | - |  | - | - |  | - |  | - | - |  |
| 18 | Total | \$ | 212,249 | 0.12 | \% | 4,036 | 9.14 | \% | 0.4 | \$ | 7,565 | 3.56 | \% |

[^8]CCR Exposures by Portfolio and PD Scale (CCR4) - Corporate (Continued) ${ }^{1}$


[^9]CCR Exposures by Portfolio and PD Scale (CCR4) - Sovereign ${ }^{1}$
(\$ millions, except as noted)
As at


|  | PD scale ${ }^{2}$ |  |  | EAD post-CRM | Average PD |  | Number of obligors ${ }^{3}$ | Average LGD | Average maturity (years) |  |  | RWA | RWA density ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0.00 to <0.15 | \% | \$ | 99,632 | 0.04 | \% | 321 | 1.99 | \% | 0.7 | \$ | 404 | 0.41 | \% |
| 2 | 0.15 to <0.25 |  |  | 3 | 0.20 |  | 23 | 37.85 |  | 3.7 |  | 1 | 33.33 |  |
| 3 | 0.25 to <0.50 |  |  | 4 | 0.35 |  | 19 | 31.32 |  | 3.8 |  | 2 | 50.00 |  |
| 4 | 0.50 to <0.75 |  |  | - | 0.69 |  | 2 | 25.37 |  | 4.4 |  | - | - |  |
| 5 | 0.75 to <2.50 |  |  | 2 | 2.15 |  | 13 | 20.05 |  | 2.0 |  | 1 | 50.00 |  |
| 6 | 2.50 to <10.00 |  |  | - | 9.82 |  | 1 | 49.37 |  | 4.2 |  | - | - |  |
| 7 | 10.00 to <100.00 |  |  | 7 | 19.12 |  | 7 | 34.76 |  | 5.0 |  | 13 | 185.71 |  |
| 8 | 100.00 (Default) |  |  | - | - |  | - | - |  | - |  | - | - |  |
| 9 | Total |  | \$ | 99,648 | 0.04 | \% | 386 | 2.00 | \% | 0.7 |  | 421 | 0.42 | \% |


| PD scale ${ }^{2}$ | EAD post-CRM | Average PD | Number of obligors ${ }^{3}$ | Average LGD |  | Average maturity (years) |  | RWA | RWA density ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.00 to <0.15 \% \$ | 103,313 | 0.03 \% | 322 | 1.98 | \% | 0.7 | \$ | 481 | 0.47 | \% |
| 0.15 to <0.25 | 3 | 0.20 | 15 | 40.10 |  | 3.8 |  | 1 | 33.33 |  |
| 0.25 to <0.50 | 5 | 0.36 | 19 | 36.09 |  | 3.1 |  | 3 | 60.00 |  |
| 0.50 to <0.75 | - | 0.69 | 3 | 32.58 |  | 4.8 |  | - | - |  |
| 0.75 to <2.50 | 1 | 1.73 | 14 | 30.44 |  | 4.4 |  | 1 | 100.00 |  |
| 2.50 to <10.00 | - | 9.82 | 2 | 55.38 |  | 4.6 |  | 1 | - |  |
| 10.00 to <100.00 | 9 | 19.84 | 8 | 35.59 |  | 5.0 |  | 18 | 200.00 |  |
| 100.00 (Default) | - | - | - | - |  | - |  | - | - |  |
| Total \$ | 103,331 | 0.03 \% | 383 | 1.99 | \% | 0.7 | \$ | 505 | 0.49 | \% |


|  | $\begin{gathered} 2023 \\ \text { Q2 } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PD scale ${ }^{2}$ |  | EAD post-CRM | Average PD |  | Number of obligors ${ }^{3}$ | Average LGD |  | Average maturity (years) |  | RWA | RWA density ${ }^{4}$ |  |
| 19 | 0.00 to <0.15 \% | \$ | 122,180 | 0.03 | \% | 311 | 1.75 | \% | 0.7 | \$ | 533 | 0.44 | \% |
| 20 | 0.15 to <0.25 |  | 15 | 0.20 |  | 20 | 45.05 |  | 2.6 |  | 6 | 40.00 |  |
| 21 | 0.25 to <0.50 |  | 23 | 0.31 |  | 18 | 30.17 |  | 4.1 |  | 11 | 47.83 |  |
| 22 | 0.50 to <0.75 |  | 1 | 0.69 |  | 4 | 36.64 |  | 4.9 |  | 1 | 100.00 |  |
| 23 | 0.75 to <2.50 |  | 2 | 1.71 |  | 15 | 30.09 |  | 4.2 |  | 2 | 100.00 |  |
| 24 | 2.50 to <10.00 |  | 1 | 9.82 |  | 2 | 56.16 |  | 4.6 |  | 2 | 200.00 |  |
| 25 | 10.00 to <100.00 |  | 12 | 20.22 |  | 8 | 36.28 |  | 5.0 |  | 26 | 216.67 |  |
| 26 | 100.00 (Default) |  | - | - |  | - | - |  | - |  | - | - |  |
| 27 | Total | \$ | 122,234 | 0.03 | \% | 378 | 1.77 | \% | 0.7 | \$ | 581 | 0.48 |  |

Collateral for repo-style transactions is reflected in the LGD as opposed to EAD.
Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
${ }_{4}^{3}$ Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
Total RWA as a percentage of post-CRM EAD.

CCR Exposures by Portfolio and PD Scale (CCR4) - Sovereign (Continued) ${ }^{1}$
(\$ millions, except as noted) As at


[^10]CCR Exposures by Portfolio and PD Scale (CCR4) - Bank ${ }^{1}$
(\$ millions, except as noted) As at


|  | PD scale ${ }^{2}$ | EAD post-CRM | Average PD | Number of obligors ${ }^{3}$ | Average LGD |  | Average maturity (years) |  | RWA | RWA density ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0.00 to <0.15 \% \$ | 142,223 | 0.05 \% | 315 | 11.70 | \% | 0.4 | \$ | 5,192 | 3.65 | \% |
| 2 | 0.15 to <0.25 | 180 | 0.20 | 6 | 1.15 |  | - |  | 1 | 0.56 |  |
| 3 | 0.25 to <0.50 | 110 | 0.29 | 7 | 2.98 |  | 0.2 |  | 5 | 4.55 |  |
| 4 | 0.50 to <0.75 | 1 | 0.69 | 1 | 45.00 |  | 1.7 |  | 1 | 100.00 |  |
| 5 | 0.75 to <2.50 | - | 2.23 | 1 | 45.00 |  | 0.1 |  | - | - |  |
| 6 | 2.50 to <10.00 | - | - | - | - |  | - |  | - | - |  |
| 7 | 10.00 to <100.00 | - | - | - | - |  | - |  | - | - |  |
| 8 | 100.00 (Default) | - | - | - | - |  | - |  | - | - |  |
| 9 | Total \$ | 142,514 | 0.05 \% | 330 | 11.68 | \% | 0.4 | \$ | 5,199 | 3.65 | \% |


|  | PD scale ${ }^{2}$ | EAD post-CRM | Average PD | Number of obligors ${ }^{3}$ | Average LGD |  | Average maturity (years) |  | RWA | RWA density ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 0.00 to <0.15 \% \$ | 134,965 | 0.05 \% | 314 | 11.21 | \% | 0.4 | \$ | 4,956 | 3.67 | \% |
| 11 | 0.15 to <0.25 | 342 | 0.20 | 9 | 3.52 |  | - |  | 6 | 1.75 |  |
| 12 | 0.25 to <0.50 | 110 | 0.29 | 6 | 1.82 |  | 0.1 |  | 3 | 2.73 |  |
| 13 | 0.50 to <0.75 | 1 | 0.69 | 1 | 45.00 |  | 2.0 |  | 1 | 100.00 |  |
| 14 | 0.75 to <2.50 | - | 2.23 | 1 | 45.00 |  | - |  | - | - |  |
| 15 | 2.50 to <10.00 | - | - | - | - |  | - |  | - | - |  |
| 16 | 10.00 to <100.00 | 1 | 40.76 | 1 | 45.00 |  | 1.0 |  | 2 | 200.00 |  |
| 17 | 100.00 (Default) | - | - | - | - |  | - |  | - | - |  |
| 18 | Total \$ | 135,419 | 0.06 \% | 332 | 11.18 | \% | 0.4 | \$ | 4,968 | 3.67 | \% |



Collateral for repo-style transactions is reflected in the LGD as opposed to EAD.
Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
${ }_{4}^{3}$ Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
Total RWA as a percentage of post-CRM EAD.

CCR Exposures by Portfolio and PD Scale (CCR4) - Bank (Continued) ${ }^{1}$
(\$ millions, except as noted)
As at


[^11]Composition of Collateral for CCR Exposure (CCR5)
(\$ millions)
As at

Cash - domestic currency Cash - other currencies Domestic sovereign deb Other sovereign debt Corporate bonds
Equity securities
Other collateral
Total

Cash - domestic currency Cash - other currencies Domestic sovereign deb Other sovereign debt Government agency debt Corporate bonds Equity securities Other collateral
Total

Cash - domestic currenc Cash - other currencies Domestic sovereign debt Other sovereign debt Government agency debt Equity securities Other collateral
Total


Credit Derivatives Exposures (CCR6)

| (\$ millions) <br> As at | $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ | $\begin{gathered} 2023 \\ \text { Q4 } \end{gathered}$ |  |  |  | $\begin{gathered} 2023 \\ \text { Q3 } \end{gathered}$ |  |  |  | $\begin{gathered} 2023 \\ \text { Q2 } \end{gathered}$ |  |  |  | $\begin{gathered} 2023 \\ \text { Q1 } \end{gathered}$ |  |  |  | $\begin{gathered} 2022 \\ \text { Q4 } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Protection bought |  | $\begin{array}{r} \hline \text { Protection } \\ \text { sold } \end{array}$ |  | $\begin{array}{r} \text { Protection } \\ \text { bought } \end{array}$ |  | Protection sold |  | Protection bought |  | Protection sold |  | Protection bought |  | Protection sold |  | Protection bought |  | Protection sold |
| Notionals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single-name credit default swaps | 1 | \$ | 4,877 | \$ | 1,621 | \$ | 4,061 | \$ | 1,421 | \$ | 4,157 | \$ | 2,092 | \$ | 3,476 | \$ | 2,004 | \$ | 3,318 | \$ | 2,280 |
| Index credit default swaps | 2 |  | 6,193 |  | 914 |  | 7,891 |  | 1,170 |  | 6,760 |  | 556 |  | 9,011 |  | 1,942 |  | 8,144 |  | 774 |
| Total return swaps | 3 |  | 279 |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |
| Credit options | 4 |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |
| Other credit derivatives | 5 |  | 526 |  | 6,032 |  | 501 |  | 6,191 |  | 391 |  | 6,138 |  | 317 |  | 5,515 |  | 342 |  | 4,762 |
| Total notionals | 6 |  | 11,875 |  | 8,567 |  | 12,453 |  | 8,782 |  | 11,308 |  | 8,786 |  | 12,804 |  | 9,461 |  | 11,804 |  | 7,816 |
| Fair values |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Positive fair value (asset) | 7 |  | 15 |  | 42 |  | 8 |  | 57 |  | 9 |  | 46 |  | 10 |  | 79 |  | 11 |  | 47 |
| Negative fair value (liability) | 8 |  | (164) |  | (6) |  | (227) |  | (5) |  | (179) |  | (9) |  | (208) |  | (6) |  | (127) |  | (12) |

## Exposures to Central Counterparties (CCR8) ${ }^{1}$



The Bank does not have any exposure to non-qualifying central counterparties

Derivatives - Notional


[^12]Derivatives - Notional (Continued)

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{$$
\underset{A s ~ a t}{(\$ \text { millions) }}
$$} \& \multicolumn{2}{|l|}{\multirow[t]{4}{*}{$$
\underset{\#}{\text { LINE }}
$$}} \& \multicolumn{11}{|c|}{$$
\begin{gathered}
2222 \\
\mathbf{Q 4} \\
\hline
\end{gathered}
$$} <br>
\hline \& \& \& \& \& \& \multicolumn{2}{|r|}{\multirow[b]{3}{*}{Exchange-
traded}} \& \multicolumn{2}{|r|}{\multirow[t]{3}{*}{Trading

Total}} \& \& \multirow[b]{3}{*}{$$
\begin{gathered}
\text { Non- } \\
\text { trading } \\
\hline
\end{gathered}
$$} \& \multicolumn{2}{|r|}{\multirow[b]{3}{*}{Total}} <br>

\hline \& \& \& \multicolumn{3}{|r|}{Over-the-counter ${ }^{1}$} \& \& \& \& \& \& \& \& <br>
\hline \& \& \& Clearing house ${ }^{2}$ \& \& Non-
clearing house \& \& \& \& \& \& \& \& <br>
\hline Interest Rate Contracts

Futures \& \& \& \& \& \& \multirow[t]{2}{*}{\$} \& 1,191,392 \& \multirow[t]{2}{*}{\$} \& \multirow[b]{2}{*}{$$
\begin{array}{r}
1,191,392 \\
536,330
\end{array}
$$} \& \multirow[b]{2}{*}{\$} \& \multicolumn{2}{|l|}{-} \& 1,191,392 <br>

\hline Forward rate agreements \& 2 \& \& 525,542 \& \& 10,788 \& \& -101 \& \& \& \& \& \$ \& <br>
\hline Swaps \& 3 \& \& 14,156,659 \& \& 418,241 \& \& - \& \& 14,574,900 \& \& 1,955,639 \& \& 16,530,539 <br>
\hline Options written \& 4 \& \& - \& \& 78,984 \& \& 117,942 \& \& 196,926 \& \& 34 \& \& 196,960 <br>
\hline \multirow[t]{2}{*}{Options purchased} \& \multirow[t]{2}{*}{5} \& \& - \& \& 83,202 \& \& 125,056 \& \& 208,258 \& \& 967 \& \& 209,225 <br>
\hline \& \& \& 14,682,201 \& \& 591,215 \& \& 1,434,390 \& \& 16,707,806 \& \& 1,957,141 \& \& 18,664,947 <br>
\hline \multicolumn{14}{|l|}{Foreign Exchange Contracts} <br>
\hline Futures \& 7 \& \& - \& \& - ${ }^{-}$ \& \& - \& \& - \& \& - \& \& - <br>
\hline Forward contracts \& 8 \& \& - \& \& 234,747 \& \& - \& \& 234,747 \& \& 29,562 \& \& 264,309 <br>
\hline Swaps \& 9 \& \& 912 \& \& 1,912,924 \& \& - \& \& 1,913,836 \& \& 2,049 \& \& 1,915,885 <br>
\hline Cross-currency interest rate swaps \& 10 \& \& - \& \& 1,099,221 \& \& - \& \& 1,099,221 \& \& 104,988 \& \& 1,204,209 <br>
\hline Options written \& 11 \& \& - \& \& 35,501 \& \& 84 \& \& 35,585 \& \&  \& \& 35,585 <br>
\hline \multirow[t]{2}{*}{Options purchased} \& 12 \& \& - \& \& 26,559 \& \& 10 \& \& 26,569 \& \& - \& \& 26,569 <br>
\hline \& 13 \& \& 912 \& \& 3,308,952 \& \& 94 \& \& 3,309,958 \& \& 136,599 \& \& 3,446,557 <br>
\hline \multicolumn{14}{|l|}{Credit Derivative Contracts Credit default swaps} <br>
\hline Protection purchased \& 14 \& \& 9,735 \& \& 91 \& \& - \& \& 9,826 \& \& 3,378 \& \& 13,204 <br>
\hline \multirow[t]{2}{*}{Protection sold} \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{15
16}} \& 2,843 \& \& 211 \& \& - \& \& 3,054 \& \& - \& \& 3,054 <br>
\hline \& \& \& 12,578 \& \& 302 \& \& - \& \& 12,880 \& \& 3,378 \& \& 16,258 <br>
\hline \multicolumn{14}{|l|}{Other Contracts} <br>
\hline Equity contracts \& 17 \& \& - \& \& 74,652 \& \& 89,202 \& \& 163,854 \& \& 27,620 \& \& 191,474 <br>
\hline \multirow[t]{2}{*}{Commodity contracts} \& 18 \& \& 363 \& \& 74,724 \& \& 60,070 \& \& 135,157 \& \& - \& \& 135,157 <br>
\hline \& 19 \& \& 363 \& \& 149,376 \& \& 149,272 \& \& 299,011 \& \& 27,620 \& \& 326,631 <br>
\hline Total \& 20 \& \$ \& 14,696,054 \& \$ \& 4,049,845 \& \$ \& 1,583,756 \& \$ \& 20,329,655 \& \$ \& 2,124,738 \& \$ \& 22,454,393 <br>
\hline
\end{tabular}

${ }^{1}$ Collateral held under a CSA to help reduce CCR is in the form of high-quality and liquid assets such as cash and high-quality government securities. Acceptable collateral is governed by the Collateralized Trading Policy.
 counterparties

Derivatives - Credit Exposure
(\$ millions)
As at

Interest Rate Contracts
Forward rate agreements
Swaps
Options written
Options purchased
Foreign Exchange Contracts
Forward contracts
Swaps
Cross-currency interest rate swaps
Options written
Options purchased
Other Contracts
Credit derivative
Commodity contr

## Total net derivatives

Qualifying Central Counterparty (QCCP) contracts ${ }^{2}$ Total

| $\underset{\#}{\text { LINE }}$ | $\begin{gathered} 2223 \\ \text { Q4 } \end{gathered}$ |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q3 } \end{gathered}$ |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Q2 } \end{gathered}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} \text { Current } \\ \text { replacement } \\ \text { cost }^{1} \end{array}$ |  | $\begin{array}{r} \text { Credit } \\ \text { equivalent } \\ \text { amount } \end{array}$ |  | $\begin{array}{r} \text { Risk- } \\ \text { weighted } \\ \text { amount } \end{array}$ |  | $\begin{array}{r} \text { Current } \\ \text { replacement } \\ \text { cost }^{1} \end{array}$ |  | Credit equivalent amount |  | Risk- weighted amount |  | Current replacement cost $^{1}$ |  | equivalent amount |  | $\qquad$ weighted amoun |
| 1 | \$ 32 | \$ | 141 | \$ | 70 | \$ | 16 | \$ | 72 | \$ | 29 | \$ | 24 | \$ | 124 | \$ | 47 |
| 2 | 6,436 |  | 13,423 |  | 1,142 |  | 6,023 |  | 12,949 |  | 1,100 |  | 6,467 |  | 13,695 |  | 1,336 |
| 3 | 3 |  | 92 |  | 27 |  | 3 |  | 78 |  | 24 |  | 3 |  | 86 |  | 21 |
| 4 | 27 |  | 140 |  | 39 |  | 15 |  | 101 |  | 26 |  | 14 |  | 96 |  | 25 |
| 5 | 6,498 |  | 13,796 |  | 1,278 |  | 6,057 |  | 13,200 |  | 1,179 |  | 6,508 |  | 14,001 |  | 1,429 |
| 6 | 1,514 |  | 4,732 |  | 968 |  | 1,222 |  | 4,144 |  | 874 |  | 1,263 |  | 4,538 |  | 926 |
| 7 | 4,184 |  | 19,252 |  | 2,863 |  | 2,401 |  | 15,495 |  | 2,333 |  | 2,973 |  | 16,222 |  | 2,364 |
| 8 | 5,668 |  | 18,249 |  | 1,767 |  | 4,911 |  | 16,691 |  | 1,654 |  | 5,361 |  | 16,772 |  | 1,620 |
| 9 | 27 |  | 306 |  | 71 |  | 11 |  | 260 |  | 66 |  | 13 |  | 226 |  | 80 |
| 10 | 64 |  | 252 |  | 93 |  | 29 |  | 166 |  | 70 |  | 38 |  | 163 |  | 103 |
| 11 | 11,457 |  | 42,791 |  | 5,762 |  | 8,574 |  | 36,756 |  | 4,997 |  | 9,648 |  | 37,921 |  | 5,093 |
| 12 | 4 |  | 278 |  | 50 |  | 1 |  | 238 |  | 46 |  | 1 |  | 436 |  | 79 |
| 13 | 762 |  | 8,147 |  | 2,577 |  | 542 |  | 7,746 |  | 2,323 |  | 566 |  | 7,800 |  | 2,275 |
| 14 | 829 |  | 4,980 |  | 1,102 |  | 712 |  | 4,583 |  | 1,109 |  | 876 |  | 4,775 |  | 1,054 |
| 15 | 1,595 |  | 13,405 |  | 3,729 |  | 1,255 |  | 12,567 |  | 3,478 |  | 1,443 |  | 13,011 |  | 3,408 |
| 16 | 19,550 |  | 69,992 |  | 10,769 |  | 15,886 |  | 62,523 |  | 9,654 |  | 17,599 |  | 64,933 |  | 9,930 |
| 17 | 6,494 |  | 27,211 |  | 969 |  | 7,321 |  | 28,190 |  | 990 |  | 6,996 |  | 26,278 |  | 878 |
| 18 | \$ 26,044 | \$ | 97,203 | \$ | 11,738 | \$ | 23,207 | \$ | 90,713 | \$ | 10,644 | \$ | 24,595 | \$ | 91,211 | \$ | 10,808 |

Interest Rate Contracts Forward rate agreements Forward
Swaps
Options written
Options purchased
Foreign Exchange Contracts
Forward contracts
Swaps
Cross-currency interest rate swaps
Options written
Options purchased
Other Contracts
Credit derivative
Equity contracts
Commodity contra

## Total net derivatives

Qualifying Central Counterparty (QCCP) contracts ${ }^{2}$ Total


Non-trading credit derivatives, which are given financial guarantee treatment for credit risk capital purposes, were excluded in accordance with OSFI's guidelines
 methodology. The amounts calculated are net of master netting agreements and collateral.

Securitization Exposures in the Banking Book (SEC1)

${ }^{1}$ Simple, transparent, and comparable (STC).

Securitization Exposures in the Banking Book (SEC1) (Continued) ${ }^{1}$

| $\begin{aligned} & \text { (\$ millions) } \\ & \text { As at } \end{aligned}$ | $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ | $\begin{gathered} 2023 \\ \text { Q1 } \end{gathered}$ |  |  |  |  | $\begin{gathered} 2022 \\ \mathrm{Q} 4 \\ \hline \end{gathered}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bank acts as originator/sponsor Traditional |  | Bank acts as investor Traditional |  | Total |  | acts as sponsor raditional |  | Bank acts as investor Traditional |  | Total |
| Retail (total) - of which: | 1 | 38,497 | \$ | 37,021 | \$ | 75,518 | \$ | 32,972 | \$ | 40,310 | \$ | 73,282 |
| Residential mortgage | 2 | 12,266 |  | 240 |  | 12,506 |  | 11,589 |  | 292 |  | 11,881 |
| Credit card | 3 | 7,811 |  | 12,775 |  | 20,586 |  | 4,639 |  | 13,035 |  | 17,674 |
| Other retail exposures | 4 | 18,420 |  | 24,006 |  | 42,426 |  | 16,744 |  | 26,983 |  | 43,727 |
| Re-securitization | 5 | - |  | - |  | - |  | - |  | - |  | - |
| Wholesale (total) - of which: | 6 | 16,893 |  | 37,174 |  | 54,067 |  | 16,746 |  | 37,605 |  | 54,351 |
| Loans to corporates | 7 | - |  | 14,781 |  | 14,781 |  | - |  | 14,875 |  | 14,875 |
| Commercial mortgage | 8 | - |  | 17,253 |  | 17,253 |  | - |  | 17,233 |  | 17,233 |
| Lease and receivables | 9 | 16,627 |  | 5,140 |  | 21,767 |  | 16,473 |  | 5,497 |  | 21,970 |
| Other wholesale | 10 | 266 |  | - |  | 266 |  | 273 |  | - |  | 273 |
| Re-securitization | 11 | - |  | - |  | - |  | - |  | - |  | - |

${ }^{1}$ The Bank does not have any synthetic securitization exposures.

Securitization Exposures in the Trading Book (SEC2) ${ }^{1}$


The Bank does not have any synthetic securitization exposures.

Securitization Exposures in the Trading Book (SEC2) (Continued) ${ }^{1}$

| $\begin{aligned} & \text { (\$ millions) } \\ & \text { As at } \end{aligned}$ | $\begin{gathered} \text { LINE } \\ \# \end{gathered}$ | $\begin{gathered} 2023 \\ \text { Q1 } \end{gathered}$ |  |  |  |  |  | $\begin{gathered} 2022 \\ \mathrm{Q4} \end{gathered}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bank acts as originator/sponsor Traditional |  | Bank acts as investor Traditional |  | Total |  | Bank acts as originator/sponsor Traditiona |  | Bank acts as investor Traditional |  |  | Total |
| Retail (total) - of which: | 1 | \$ | - | \$ | 728 | \$ | 728 | \$ | - | \$ | 600 | \$ | 600 |
| Residential mortgage | 2 |  | - |  | - |  | - |  | - |  | - |  | - |
| Credit card | 3 |  | - |  | 54 |  | 54 |  | - |  | 8 |  | 8 |
| Other retail exposures | 4 |  | - |  | 674 |  | 674 |  | - |  | 592 |  | 592 |
| Re-securitization | 5 |  | - |  | - |  | - |  | - |  | - |  | - |
| Wholesale (total) - of which: | 6 |  | - |  | 937 |  | 937 |  | - |  | 55 |  | 55 |
| Loans to corporates | 7 |  | - |  | - |  | - |  | - |  | - |  | - |
| Commercial mortgage | 8 |  | - |  | 1 |  | 1 |  | - |  | 1 |  | 1 |
| Lease and receivables | 9 |  | - |  | - |  | - |  | - |  | - |  | - |
| Other wholesale | 10 |  | - |  | 936 |  | 936 |  | - |  | 54 |  | 54 |
| Re-securitization | 11 |  | - |  | - |  | - |  | - |  | - |  | - |

'The Bank does not have any synthetic securitization exposures.

Securitization Exposures in the Banking Book and Associated Regulatory Capital Requirements - Bank Acting as Originator or as Sponsor (SEC3) ${ }^{1}$

${ }_{2}^{1}$ The Bank did not have any synthetic securitization exposures prior to the second quarter of 2023.
RWA before application of cap.

Securitization Exposures in the Banking Book and Associated Regulatory Capital Requirements - Bank Acting as Originator or as Sponsor (SEC3) (Continued) ${ }^{1}$

${ }^{1}$ The Bank does not have any synthetic securitization exposures.
${ }_{2}$ RWA before application of cap.

Securitization Exposures in the Banking Book and Associated Regulatory Capital Requirements - Bank Acting as Investor (SEC4) ${ }^{1}$


Securitization Exposures in the Banking Book and Associated Regulatory Capital Requirements - Bank Acting as Investor (SEC4) (Continued) ${ }^{1}$

${ }_{2}^{1}$ The Bank does not have any synthetic securitization exposures.
${ }^{2}$ RWA before application of cap.

AIRB Credit Risk Exposures: Actual and Estimated Parameters

${ }^{1}$ Estimated PD reflects a one-year through-the-cycle time horizon and is based on long run economic conditions.
${ }^{2}$ Average Estimated PD and Actual Default Rate are weighted by account.
${ }^{3}$ Estimated LGD reflects loss estimates for the full portfolio under a severe downturn economic scenario. Effective Q2 2023, Estimated LGD for Non-Retail is based on defaulted accounts that are resolved within the trailing 12 months, consistent with how actual LGD is calculated.
${ }^{4}$ Represents average LGD of the impaired portfolio over trailing 12 months.
${ }^{5}$ Effective Q2 2023, Estimated EAD for Non-Retail refers to Usage Given Default (UGD) for revolving facilities, and is based on defaulted accounts within the trailing 12 months, which is consistent with how actual EAD is calculated.
Represents actual defaults over trailing 12 months.
${ }_{8}^{7}$ LGD for the residential secured insured portfolio is n/a due to the effect of CRM from government backed entities
${ }^{8}$ LGD and EAD for Sovereign and Bank are n/a due to no defaulted accounts over the trailing 12 months.

IRB - Backtesting of Probability of Default (PD) per Portfolio - Non-Retail (CR9)

| (\$ millions, except as noted) As at | $\underset{\#}{\text { LINE }}$ | 2023 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | External rating | Weighted | Arithmetic PD average |  |  | ber of obligors ${ }^{2}$ | Defaulted obligors | of which: new defaulted obligors in | Average historical annual |
| Corporate |  | PD range | equivalent ${ }^{1}$ | average PD | by Obligors |  | End of previous | End of the year | in the year ${ }^{3}$ | the year | default rate |
| Canada ${ }^{4}$ | 1 | 0.00 to <0.15 \% | AAA to BBB- | 0.08 \% | 0.10 | \% | 6,780 | 6,454 | 5 | 1 | 0.01 \% |
|  | 2 | 0.15 to <0.25 | BB+ | 0.20 | 0.20 |  | 2,419 | 2,490 | 6 | - | 0.06 |
|  | 3 | 0.25 to <0.50 | BB to BB- | 0.36 | 0.35 |  | 7,517 | 8,612 | 7 | 1 | 0.05 |
|  | 4 | 0.50 to $<0.75$ | B+ | 0.68 | 0.68 |  | 2,214 | 2,685 | 9 | - | 0.14 |
|  | 5 | 0.75 to <2.50 | В То B- | 1.63 | 1.95 |  | 11,126 | 13,068 | 90 | 2 | 0.44 |
|  | 6 | 2.50 to <10.00 | CCC+ | 9.01 | 9.01 |  | 307 | 355 | 6 | - | 2.15 |
|  |  | 10.00 to <100.00 | CCC to CC |  |  |  |  |  |  |  |  |
|  | 7 |  | and below | 20.78 | 22.90 |  | 672 | 835 | 118 | 3 | 8.66 |
|  | 8 | Total |  | 0.81 | 1.36 |  | 30,239 | 34,484 | 241 | 7 | 0.39 |
| U.S. | 9 | 0.00 to <0.15 \% | AAA to A- | 0.05 | 0.05 |  | 486 | 387 | - | - | - |
|  | 10 | 0.15 to <0.25 | n/a | 0.23 | 0.23 |  | 166 | 144 | - | - | - |
|  | 11 | 0.25 to <0.50 | BBB+ | 0.48 | 0.48 |  | 222 | - | - | - | - |
|  | 12 | 0.50 to <0.75 | BBB to BBB- | 0.64 | 0.65 |  | 4,572 | 4,937 | 2 | - | 0.02 |
|  | 13 | 0.75 to <2.50 | $\mathrm{BB}+$ to B | 1.49 | 1.42 |  | 6,841 | 7,839 | 6 | - | 0.12 |
|  | 14 | 2.50 to <10.00 | B- | 4.69 | 4.69 |  | 1,483 | 1,234 | 2 | - | 0.22 |
|  |  | 10.00 to <100.00 | $\mathrm{CCC}+$ to CC |  |  |  |  |  |  |  |  |
|  | 15 |  | and below | 30.52 | 30.63 |  | 590 | 647 | 27 | 2 | 7.51 |
|  | 16 | Total |  | 1.67 | 2.77 |  | 14,355 | 15,187 | 37 | 2 | 0.38 |
| Sovereign ${ }^{5}$ | 17 | 0.00 to <0.15 \% | AAA to BBB- | 0.01 | 0.01 |  | 1,052 | 3,920 | - | - | - |
|  | 18 | 0.15 to <0.25 | BB+ | 0.20 | 0.20 |  | 1 | 118 | - | - | - |
|  | 19 | 0.25 to <0.50 | BB to BB - | - | - |  | - | 263 | - | - | - |
|  | 20 | 0.50 to <0.75 | B+ | - | - |  | - | 83 | - | - | _ |
|  | 21 | 0.75 to <2.50 | в то $\mathrm{B}^{\text {- }}$ | 2.14 | 2.14 |  | 1 | 645 | - | - | - |
|  | 22 | 2.50 to <10.00 | CCC+ | 4.69 | 4.69 |  | 1 | 9 | - | - | - |
|  | 23 | 10.00 to <100.00 | CCC to CC and below | - | - |  | - | 27 | - | - | - |
|  | 24 | Total |  | 0.01 | 1.01 |  | 1,055 | 5,051 | - | - | - |
| Bank | 25 | 0.00 to <0.15 \% | AAA to BBB- | 0.04 | 0.05 |  | 1,015 | 424 | - | - | - |
|  | 26 | 0.15 to <0.25 | BB+ | 0.22 | 0.22 |  | 42 | 27 | - | - | - |
|  | 27 | 0.25 to <0.50 | BB to BB- | 0.44 | 0.43 |  | 21 | 12 | - | - | - |
|  | 28 | 0.50 to <0.75 | B+ | 0.59 | 0.60 |  | 34 | 32 | - | - | - |
|  | 29 | 0.75 to <2.50 | В то B- | 1.61 | 2.13 |  | 19 | 27 | - | - | - |
|  | 30 | 2.50 to <10.00 | CCC+ | 8.80 | 5.93 |  | 3 | 10 | - | - | - |
|  | 31 | 10.00 to <100.00 | CCC to CC and below | 40.80 | 38.93 |  | 2 | 1 | - | - | - |
|  | 32 | Total |  | 0.16 \% | 0.41 | \% | 1,131 | $530$ | - | - | - \% |

Represents external rating equivalent at the end of the previous year
Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
${ }^{3}$ The Bank defines default as delinquency of 90 days or more for most retail products and borrower risk rating (BRR) 9 for non-retail exposures
Includes Canadian Personal and Commercial Banking, Wealth Management and Insurance, Wholesale Banking and Corporate segments.
${ }^{5}$ As of the second quarter 2023, the sovereign disclosure includes all public sector entities. Previously, these exposures may have resided across various asset classes.

IRB - Backtesting of Probability of Default (PD) per Portfolio - Retail (CR9)


The Bank defines default as delinquency of 90 days or more for most retail products and BRR 9 for non-retail exposures.
Includes Canadian Personal and Commercial Banking, Weath Management and Insurance, Wholesale Banking and Corporate segments.

## Historical Losses (OR1) ${ }^{1}$

## (\$ millions, except as noted)

Using $\$ 30,000$ CAD threshold
Total amount of operational losses net of recoveries (no exclusions)
Total number of operational risk losses
Total amount of excluded operational risk losses
Total number of exclusions
Total amount of operational losses net of recoveries and net of excluded losses Details of operational risk capital calculation
Are losses used to calculate the Internal loss multiplier (ILM)?
If "no" in row 6 , is the exclusion of internal loss data due to non-compliance with the minimum loss data standards?

| $\begin{aligned} & \text { LINE } \\ & \hline \end{aligned}$ | 2023 |  | 2022 |  | 2021 |  | 2020 |  | 2019 |  | 2018 |  | 2017 |  | 2016 |  | 2015 |  | 2014 |  | Ten-year average |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | \$ | 2,027 | \$ | 229 | \$ | 272 | \$ | 300 | \$ | 218 | \$ | 176 | \$ | 163 | \$ | 328 | \$ | 204 | \$ | 251 | \$ | 417 |
| 2 |  | 2,024 |  | 1,417 |  | 1,033 |  | 1,050 |  | 1,112 |  | 1,080 |  | 1,078 |  | 986 |  | 848 |  | 618 |  | 1,125 |
| 3 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ |  | \$ | - | \$ |  | \$ | - |
| 4 |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |  | - |
| 5 | \$ | 2,027 | \$ | 229 | \$ | 272 | \$ | 300 | \$ | 218 | \$ | 176 | \$ | 163 | \$ | 328 | \$ | 204 | \$ | 251 | \$ | 417 |
| 6 | Yes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | n/a |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## Business Indicator (BI) and Subcomponents (OR2) ${ }^{1}$

## (\$ millions)

BI and its subcomponents
Interest, lease and dividend component
Interest and lease income
Interest and lease expense
Interest earning assets
Dividend income
Services component
Fee and commission income
Fee and commission expense
Other operating income
Other operating expense
Financial component
Net P\&L on the trading book
Net P\&L on the banking book
$\mathrm{Bl}^{2}$
Business indicator component (BIC)
Disclosure on the BI:
BI gross of excluded divested activities
Reduction in BI due to excluded divested activities


Reflects details of the three years of financial data used in calculation of the business indicator as at October 31, 2023
${ }^{2}$ Includes the impact of acquisitions not included in the detailed BI subcomponents

## Minimum Required Operational Risk Capital (OR3)

(\$ millions, except as noted)

Business indicator component (BIC)
Internal loss multiplier (ILM)
Minimum required operational risk capital (ORC)
Operational risk RWA

| $\underset{\#}{\text { LINE }}$ | 2023 |  |
| :---: | :---: | :---: |
| 1 | \$ | 7,333 |
| 2 |  | 0.95 |
| 3 | \$ | 6,966 |
| 4 |  | 87,077 |

## Risk-weighted assets (RWA)

Approaches used by the Bank to calculate RWA

## For Credit Risk

Standardized Approach (SA)
Advanced Internal Ratings-Based (AIRB) Approach
Foundation Internal Ratings-Based (FIRB) Approach

## For Operational Risk

Standardized Approach for Operational Risk (SAOR)

## For Market Risk

Standardized Approach
Internal Models Approach (IMA)

## Credit Risk Terminology

Gross credit risk exposur

## Counterparty Type / Exposure Classes Retai

Residential Secured Qualifying Revolving Retail (QRR)

## Other Retail

Non-retail
Corporate
Corporate
Bank
Exposure Types:
Drawn
Undrawn (commitment)
Repo-style transactions
OTC derivatives
Other off-balance sheet
IRB Credit Risk Parameters Probability of Default (PD) Exposure at Default (EAD)
oss Given Default (LGD)

## Credit Valuation Adjustment (CVA)

Common Equity Tier 1 (CET1)

## CET1 Ratio

Return on risk-weighted assets
Liquidity Coverage Ratio (LCR)
Countercyclical Capital Buffer (CCB)

## Used in the calculation of risk-based capital ratios, total risk-weighted assets are calculated for credit, operational, and market risks using the approaches

 described below.- Under this approach, banks apply a standardized set of risk-weights to exposures, as prescribed by the regulator, to calculate credit risk capital requirements. Standardized risk-weights are based on external credit assessments, where available, and other risk-related factors, including exposure asset class and collateral.
Under this approach, banks use their own internal historical experience of PD, LGD, EAD, and other key risk assumptions to calculate credit risk capital requirements. Use of the AIRB approach is subject to supervisory approval.
Under this approach, banks use their own internal historical experience of PD and supervisory prescribed LGD and EAD, and other key risk assumptions to calculate credit risk capital requirements. Use of the FIRB approach is mandated for certain asset classes (large corporates, banks and securities firms).
- The SAOR consists of two main components - a Business Indicator Component (BIC) (a measure of a bank's income) and a Loss Component (LC), from which an Internal Loss Multiplier (ILM) is derived (a measure of a bank's historical losses). Operational risk capital is the product of the BIC and the ILM, with risk-weighted assets for operational risk being this capital requirement multiplied by 12.5 .
- Under this approach, banks use standardized capital charges prescribed by the regulator to calculate general and specific risk components of market risk.
- Under this approach, banks use their own internal risk management models to calculate specific risk and general market risk charges.
- The total amount the Bank is exposed to at the time of default measured before counterparty-specific provisions or write-offs. Includes exposures under both the Standardized and AIRB approaches to credit risk.

Includes general and income producing residential mortgages and home equity lines of credit extended to individuals.

- Includes credit cards, unsecured lines of credit, and overdraft protection products extended to individuals.
- QRR is further split into transactors and revolvers. Transactors are obligors in relation to facilities with an interest free grace period where the accrued interest over the previous 12 months is less than $\$ 50$ or obligors in relation to overdraft facilities or lines of credit where there has been no drawdowns over the previous 12 months. Revolvers are obligors in relation to the same credit products that do not meet the conditions to be classified as transactors
- Includes all other loans (such as personal loans, student lines of credit, and small business loans) extended to individuals and small businesses.
- Includes exposures to corporations, partnerships, or proprietorships
- Includes exposures to central governments, central banks, multilateral development banks, and public sector entities
- Includes exposures to deposit-taking institutions, securities firms, and other financial institutions.
- The amount of funds advanced to a borrower.
- The difference between the authorized and drawn amounts (for instance, the unused portion of a line of credit/committed credit facility)
- Repurchase and reverse repurchase agreements, securities borrowing and lending
- Privately negotiated derivative contracts.
- All off-balance sheet arrangements other than derivatives and undrawn commitments (such as letters of credit, letters of guarantee).
- The likelihood that the borrower will not be able to meet its scheduled repayments within a one year time horizon.
- The total amount the Bank is exposed to at the time of default.
- The amount of the loss when a borrower defaults on a loan, which is expressed as a percentage of EAD
- CVA represents a capital charge that measures credit risk due to default of derivative counterparties. This charge requires banks to capitalize for the potential changes in counterparty credit spread for the derivative portfolios.
- This is a primary Basel III capital measure comprised mainly of common equity, retained earnings and accumulated other comprehensive income (loss) Regulatory deductions made to arrive at the CET1 Capital include, goodwill and intangibles, unconsolidated investments in banking, financial, and insurance entities, deferred tax assets, defined benefit pension fund assets, and shortfalls in allowances.
- CET1 ratio represents the predominant measure of capital adequacy under Basel III and equals CET1 Capital divided by RWA.
- Net income available to common shareholders as a percentage of average RWA.
- LCR is calculated by dividing the total stock of unencumbered high-quality liquid assets by the expected next 30 -day stressed cash outflow.
- CCB is an extension of the capital conservation buffer which takes into account the macro-financial environment in which the banks operate and aims to protect the banking sector against future potential losses during periods of excess aggregate credit growth from a build-up of system-wide risk. The Bank's CCB will be a weighted average of the buffers deployed across jurisdictions to which the institution has private sector credit exposures.

Acronyms

| Acronym | Definition | Acronym | Definition |
| :---: | :---: | :---: | :---: |
| ACI | Acquired Credit-Impaired | IPRRE | Income Producing RRE |
| AOCI | Accumulated Other Comprehensive Income | IRB | Internal Ratings-Based |
| BCBS | Basel Committee on Banking Supervision | IRBA | Internal Ratings-Based Approach |
| CAR | Capital Adequacy Requirements | N/A | Not Applicable |
| CCF | Credit Conversion Factor | N/M | Not Meaningful |
| CCR | Counterparty Credit Risk | NVCC | Non-Viability Contingent Capital |
| CMHC | Canada Mortgage and Housing Corporation | OSFI | Office of the Superintendent of Financial Institutions Canada |
| CRE | Commercial Real Estate | OTC | Over-The-Counter |
| CRM | Credit Risk Mitigation | PFE | Potential Future Exposure |
| CSA | Credit Support Annex | QCCP | Qualifying Central Counterparty |
| D-SIBs | Domestic Systemically Important Banks | RRE | Residential Real Estate |
| ERBA | External Ratings-Based Approach | SA-CCR | Standardized Approach Counterparty Credit Risk |
| FSB | Financial Stability Board | SEC-ERBA | Securitization External Ratings-Based Approach |
| G-SIBs | Global Systemically Important Banks | SEC-IRBA | Securitization Internal Ratings-Based Approach |
| HELOCs | Home Equity Lines of Credit | SEC-SA | Securitization Standardized Approach |
| IAA | Internal Assessment Approach | SFTs | Securities Financing Transactions |
| IFRS | International Financial Reporting Standards | STC | Simple, transparent, and comparable |
| IMM | Internal Model Method | TLAC | Total Loss Absorbing Capacity |
| IPCRE | Income Producing CRE | VaR | Value-at-Risk |


[^0]:    Excludes securitization and CCR
    ${ }^{2}$ Excludes exposures subject to direct capital deductions and threshold deductions.

[^1]:    Weighting is based on off-balance sheet exposure (pre-CCF)

[^2]:    1 Excludes counterparty exposures (derivative and repo-style transactions)
    2 Prescribed PD bands based on Pillar 3 disclosure requirements by BCB

[^3]:    Excludes CCR exposures (derivative and repo-style transactions)
    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS
    ${ }^{3}$ Exposures based on obligors prior to CRM

    - Exposures after CRM reflecting guarantor.
    ${ }^{5}$ Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
    ${ }^{6}$ Total RWA as a percentage of post-CRM EAD.
    ${ }^{7}$ Includes residential secured government insured exposures (CMHC). For pre-CRM, these are included under Residential secured - insured.

[^4]:    Excludes CCR exposures (derivative and repo-style transactions)
    ${ }^{2}$ Prescribed PD bands based on Pillar 3 disclosure requirements by $B C B S$.
    ${ }^{5}$ Exposures based on obligors prior to CRM.
    ${ }^{4}$ Exposures after CRM reflecting guarantor.
    ${ }^{5}$ Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
    ${ }^{6}$ Total RWA as a percentage of post-CRM EAD.

[^5]:    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS
    Exposures based on obligors prior to CRM
    Exposures after CRM reflecting guaranto
    Number of retail accounts.
    ${ }^{5}$ Average maturity is not used in the calculation of retail exposure RWA.
    Total RWA to post-CRM EAD.

[^6]:    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
    ${ }_{3}^{2}$ Exposures based on obligors prior to CRM.
    Exposures after CRM reflecting guarantor
    Number of retail accounts.
    Average maturity is not used in the calculation of retail exposure RWA.
    Total RWA to post-CRM EAD.

[^7]:    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
    ${ }_{3}^{2}$ Exposures based on obligors prior to CRM
    ${ }^{3}$ Exposures after CRM reflecting guarantor
    Number of retail accounts.
    Average maturity is not used in the calculation of retail exposure RWA.
    Total RWA as a percentage of post-CRM EAD.

[^8]:    Collateral for repo-style transactions is reflected in the LGD as opposed to EAD
    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
    Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
    Total RWA as a percentage of post-CRM EAD.

[^9]:    Collateral for repo-style transactions is reflected in the LGD as opposed to EAD.
    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
    Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
    Total RWA as a percentage of post-CRM EAD.

[^10]:    Collateral for repo-style transactions is reflected in the LGD as opposed to EAD
    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
    Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
    Total RWA as a percentage of post-CRM EAD.

[^11]:    Collateral for repo-style transactions is reflected in the LGD as opposed to EAD
    Prescribed PD bands based on Pillar 3 disclosure requirements by BCBS.
    Total number of obligors is total number of unique borrowers and may not add as certain borrowers may be represented in more than one PD scale.
    Total RWA as a percentage of post-CRM EAD.

[^12]:    Collateral held under a Credit Support Annex (CSA) to help reduce CCR is in the form of high-quality and liquid assets such as cash and high-quality government securities. Acceptable collateral is governed by the Collateralized Trading Policy.
     counterparties.

