

SUPPLEMENTARY REGULATORY CAPITAL AND PILLAR 3 DISCLOSURE

SECOND QUARTER 2019

(unaudited)

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Notes to users

| 1) This <i>Supplementary Regulatory Capital and Pillar 3 Disclosure</i> document is unaudited and should be read in conjunction with the 2018 Report. All amounts are in millions of Canadian dollars, unless otherwise stated. | 8 Annual |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| The information provided in this document is subject to the same level of internal review and internal control processes as the information by the Bank for its financial reporting. | ition provided |
| 3) Financial information is available through the Report to Shareholders for all quarters of 2019 and also in the document entitled <i>Suppl Financial Information</i> which are available on the Bank's website at | |

4) For certain prescribed tables formats where line or column items have zero balances, such items have not been presented.

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- n.a. Not applicable
 (1) Information available on the Bank's website at nbc.ca.
 (2) These pages are included in the document entitled Supplementary Financial Information Second Quarter 2019
 (3) This page is included in the Supplementary Regulatory Capital and Pillar 3 Disclosure Fourth Quarter 2018

KM2 – Key Metrics - TLAC Requirements⁽¹⁾

| | | 2019 | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| | | Q2 | Q1 |
| | | a | |
| 1 | Total loss-absorbing capacity (TLAC) available | 13,977 | 12,547 |
| 2 | Total RWA at the level of the resolution group | 79,008 | 77,036 |
| 3 | TLAC ratio: TLAC as a percentage of RWA (row 1 / row 2) (%) | 17.7% | 16.3% |
| 4 | Leverage ratio exposure measure at the level of the resolution group | 296,118 | 286,655 |
| 5 | TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row1 / row4) (%) | 4.7% | 4.4% |
| 6a | Does the subordination exemption in the antepenultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply? | yes | yes |
| 6b | Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply? | no | no |
| 6с | If the capped subordination exemption applies, the amount of funding issued that ranks pari passu with Excluded Liabilities and that is recognised as external TLAC, divided by funding | | |
| | issued that ranks pari passu with Excluded Liabilities and that would be recognised as external TLAC if no cap was applied (%) | n.a. | n.a. |

⁽¹⁾ Minimum TLAC ratios will be required starting November 1st, 2021.

OV1 – Overview of RWA⁽¹⁾

(unaudited) (millions of Canadian dollars)

The following table provides an overview of total RWA forming the denominator of the risk-based capital requirements. Further breakdowns of RWA are presented in subsequent parts.

| | Q2 2019 | Q1 2019 | Q4 2018 | Q2 2019 |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|-----------------------------------------------|
| | a | b | b | С |
| | RWA ⁽¹⁾ | RWA ⁽¹⁾ | RWA ⁽¹⁾ | Minimum capital requirement ⁽²⁾ |
| 1 Credit risk (excluding counterparty credit risk) | 56,069 | 55,090 | 54,467 | 4,485 |
| 2 Of which: standardised approach (SA) | 10,251 | 9,588 | 9,341 | 820 |
| 3 Of which: foundation internal ratings-based (F-IRB) approach | - | - | - | _ |
| 4 Of which: supervisory slotting approach | - | - | - | _ |
| 5 Of which: advanced internal ratings-based (A-IRB) approach | 45,818 | 45,502 | 45,126 | 3,665 |
| 6 Counterparty credit risk (CCR) | 5,234 | 4,443 | 3,044 | 418 |
| 7 Of which: standardised approach for counterparty credit risk ⁽³⁾ | 4,217 | 3,493 | 2,354 | 337 |
| 8 Of which: internal model method (IMM) | - | - | - | _ |
| 9 Of which: other CCR | 836 | 674 | 492 | 67 |
| 9a Of which: exposures to central counterparties | 181 | 276 | 198 | 14 |
| 10 Credit valuation adjustment (CVA) | 1,151 | 1,020 | 405 | 92 |
| 11 Equity positions under the simple risk weight approach ⁽⁴⁾ | 943 | 924 | 926 | 76 |
| 12 Equity investments in funds – look-through approach | 108 | 101 | 105 | 9 |
| 13 Equity investments in funds – mandate-based approach | - | - | - | - |
| 14 Equity investments in funds – fall-back approach | 86 | 75 | 70 | 7 |
| 15 Settlement risk | 94 | 41 | 46 | 8 |
| 16 Securitization exposures in banking book | 439 | 468 | 413 | 35 |
| 16a Of which: subject to the transitional arrangement | (188) | (543) | - | (15) |
| 17 Of which: securitization IRB approach (SEC-IRBA) ⁽⁵⁾ | 50 | 45 | 390 | 4 |
| Of which: securitisation external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA) ⁽⁶⁾ | 449 | 966 | 23 | 36 |
| 19 Of which: securitisation standardised approach (SEC-SA) | 128 | - | - | 10 |
| 20 Market risk | 3,788 | 3,964 | 3,435 | 303 |
| 21 Of which: standardised approach (SA) | 927 | 1,041 | 1,072 | 74 |
| 22 Of which: internal model approach (IMA) | 2,861 | 2,923 | 2,363 | 229 |
| 23 Capital charge for switch between trading book and banking book | - | - | - | - |
| 24 Operational risk | 11,096 | 10,910 | 10,743 | 888 |
| 25 Amounts below the thresholds for deduction (subject to 250% risk weight) | - | - | - | - |
| 26 Floor adjustment | _ | _ | _ | _ |
| 27 Total (1+6+10+11+12+13+14+15+16+20+23+24+25+26) | 79,008 | 77,036 | 73,654 | 6,321 |

⁽¹⁾ Risk weighted assets including the 1.06 scaling factor.

⁽²⁾ The capital requirement is equal to 8% of risk weighted assets.

⁽³⁾ Standardised approach (SA-CCR) for measuring exposure at default for counterparty credit risk is applicable in Q1-2019. Before it entered into force, NBC reported information corresponding to the Current Exposures Method.

⁽⁴⁾ Banking Book Equities that are not equity investments in funds (EIF) are treated under the materiality exemption and consequently reported in OV1 row 11 as the materiality exemption is available for AIRB banks.

⁽⁵⁾ Q4 2018 values represent the IRB rating based approach (RBA) method applicable at this point in time.

 $^{(6)\} Q4\ 2018\ values\ represent\ the\ IRB\ supervisory\ Formula\ Approach\ (SFA)\ method\ applicable\ at\ this\ point\ in\ time.$

LI1 – Differences Between Accounting and Regulatory Scopes of Consolidation and Mapping of Financial Statements with Regulatory Risk Categories⁽¹⁾

(unaudited) (millions of Canadian dollars)

For the following tables columns a) and b) enable users to identify the differences between the scope of accounting consolidation and the scope of regulatory consolidation; and columns c) to g) break down how the amounts reported in banks' financial statements (rows) correspond to regulatory risk categories.

| | | | | Q2 2019 | | | |
|------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------|-----------------------|--------------------|-----------------|-----------------------------------------|
| | a | b | С | d | e | f | g |
| | | | | | • | | Carrying values of items ⁽²⁾ |
| | Carrying values as | Carrying values under | Subject to | Subject to | Subject to | Subject to | Not subject to |
| | reported in published | scope of regulatory | credit risk | counterparty | the securitization | the market risk | capital requirements or |
| | financial statements | consolidation | framework | credit risk framework | framework | framework | subject to deduction from capital |
| Assets | | | | | | | |
| Cash and deposits with financial institutions | 10,498 | 10,498 | 10,498 | _ | _ | 232 | I |
| Securities | | | | | | | |
| At fair value through profit or loss | 63,474 | 64,874 | 3,634 | - | 12 | 61,228 | - |
| At fair value through other comprehensive income | 6,633 | 15,652 | 15,642 | - | 10 | - | _ |
| At amortized cost | 8,514 | 8,799 | 7,419 | _ | 1,380 | _ | |
| | 78,621 | 89,325 | 26,695 | _ | 1,402 | 61,228 | |
| Securities purchased under reverse repurchase agreements | | | | | | | |
| and securities borrowed | 17,193 | 16,180 | - | 16,180 | - | _ | |
| Loans and acceptances | | | | | | | |
| Residential mortgage | 54,613 | 33,621 | 28,905 | - | - | - | _ |
| Personal | 36,738 | 36,738 | 36,738 | _ | - | - | _ |
| Credit card | 2,324 | 759 | 759 | - | - | - | _ |
| Business and government | 48,896 | 48,896 | 48,896 | | - | 240 | I |
| | 142,571 | 120,014 | 115,298 | - | - | 240 | _ |
| Customers' liability under acceptances | 6,854 | 6,854 | 6,854 | - | - | - | - |
| Allowances for credit losses | (683) | (185) | (185) | | - | | ı |
| | 148,742 | 126,683 | 121,967 | | - | 240 | - |
| Other (3) | | | | | | | |
| Derivative financial instruments ⁽³⁾ | 7,274 | 7,363 | | 7,363 | - | 6,617 | - |
| Investments in associates and joint ventures | 655 | 370 | 370 | - | - | - | _ |
| Premises and equipment | 609 | 609 | 609 | - | - | - | _ |
| Goodwill | 1,415 | 1,675 | - | - | - | - | 1,675 |
| Intangible assets | 1,373 | 1,177 | - 0 ((0 | - | - | - | 1,177 |
| Other assets | 2,726 | 2,669 | 2,662 | | _ | | / |
| T-4-14- | 14,052 | 13,863 | 3,641 | 7,363 | 4 (00 | 6,617 | 2,859 2.859 |
| Total assets | 269,106 | 256,549 | 162,801 | 23,543 | 1,402 | 68,317 | 2,859 |
| Liabilities | 470 (40 | 470 /40 | | | | 0.544 | 1/0.055 |
| Deposits | 179,419 | 179,419 | - | | _ | 9,564 | 169,855 |
| Other | (05/ | (05/ | | | | | (05/ |
| Acceptances | 6,854 | 6,854 | - | - | - | 45.207 | 6,854 |
| Obligations related to securities sold short Obligations related to securities sold under repurchase | 15,394 | 15,394 | - | - | - | 15,394 | _ |
| | 20.278 | 20.077 | | 20.077 | | | 201 |
| agreements and securities loaned Derivative financial instruments ⁽³⁾ | 20,378 | 20,077 | - | 20,077 | _ | 4 000 | 301 |
| Liabilities related to transferred receivables | 5,481 20,236 | 6,176 | - | 6,176 | | 4,890 | 20,236 |
| Other liabilities | 5,837 | 20,236 5,837 | - | - | _ | 24 | 5,813 |
| Other naminales | 74.180 | 74.574 | - | 26,253 | _ | 20,308 | 33.204 |
| Subordinated debt | 74.180 | 74.5/4 | | 26.253 | | 20.308 | 33.204 772 |
| Total liabilities | 254,371 | 254,765 | _ | 26,253 | | 29,872 | 203,831 |
| เบเลเ แสมแนเยร | 254,3/1 | ∠ 54,/65 | _ | 20,253 | _ | 29,8/2 | 203,831 |

⁽¹⁾ The basis of consolidation used for financial accounting purposes, described in note 1 to the 2018 Annual Report audited consolidated financial statements, may differ from regulatory purposes. The regulatory consolidation does not include structured entities, where significant risk has been transferred to third parties nor subsidiaries and associates engaged in insurance activities.

⁽²⁾ The sum of amounts in columns c) to g) may not equal the amounts in column b) as some items may be subject to regulatory capital charges in more than one risk category.

⁽³⁾ Derivatives financial instruments are subject to both counterparty credit risk and market risk frameworks.

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

(unaudited) (millions of Canadian dollars)

The following table provides information on the main sources of differences (other than due to different scopes of consolidation which are shown in table LI1) between the financial statements' carrying value amounts and the exposure amounts used for regulatory purposes.

| | | Q2 2019 | | | | |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------|----------------|---------------------|----------------------|
| | | a | b | С | d | e |
| | | | | | | Items subject to(1): |
| | | | Credit risk | Securitization | Counterparty credit | Market risk |
| | | Total | framework | framework | risk framework | framework |
| 1 | Asset carrying value amount under scope of regulatory consolidation (as per template LI1) | 253,690 | 162,801 | 1,402 | 23,543 | 68,317 |
| 2 | Liabilities carrying value amount under scope of regulatory consolidation (as per template LI1) | 50,934 | - | - | 26,253 | 29,872 |
| 3 | Total net amount under regulatory scope of consolidation | 202,756 | 162,801 | 1,402 | (2,710) | 38,445 |
| 4 | Gross-up for repo-style transactions ²⁾ | 40,154 | - | - | 40,154 | - |
| 5 | Potential future exposures (PFE)(3) | 10,058 | - | - | 10,058 | - |
| 6 | Off-balance sheet amounts ⁽⁴⁾ | 164,763 | 42,764 | 3,595 | 91,650 | - |
| 7 | Differences due to different netting rules, other than those already included in row 2 including | | | | | |
| | collateral | 1,884 | - | - | 1,884 | - |
| 8 | VaR amounts for Securities Financing Transactions (SFTs) | 1,882 | - | - | 1,882 | - |
| 9 | Differences in valuations | _ | - | - | _ | - |
| 10 | Collateral for SFTs | (122,579) | _ | _ | (122,579) | _ |
| 11 | Exposure amounts considered for regulatory purposes ⁽⁵⁾ | 298,918 | 205,565 | 4,997 | 20,339 | 38,445 |

⁽¹⁾ The sum of amounts in columns b) to e) may not equal the amounts in column a) as some items may be subject to regulatory capital charges in more than one risk category.

⁽²⁾ Is equal to two times the Obligations related to securities sold under repurchase agreements and securities loaned subject to counterparty credit risk framework from table LI1.

⁽³⁾ The PFE amount is presented after the alpha of 1.4.

⁽⁴⁾ Original off-balance sheet amounts are presented in column (a) while in columns (b) through [e] exposures are after application of credit conversion factors (CCFs).

⁽⁵⁾ The aggregate amount considered as a starting point of the RWA calculation.

CC1 – Composition of Regulatory Capital

| | | | 20: | 19 | | 20: | 18 | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|---------|---------|---------|---------|---------|
| | | | Q2 | Q1 | Q4 | Q3 | Q2 | Q1 |
| | | Reference ⁽¹⁾ | | | | | | |
| | Common Equity Tier 1 capital: instruments and reserves | | | | | | | |
| 1 | Directly issued qualifying common share capital plus related contributed surplus ⁽²⁾ | a + a' | 2,953 | 2,933 | 2,879 | 2,878 | 2,920 | 2,913 |
| 2 | Retained earnings | b | 8,889 | 8,695 | 8,472 | 8,404 | 8,018 | 7,785 |
| 3 | Accumulated other comprehensive income and other reserves | С | 50 | 65 | 175 | 159 | 139 | 110 |
| 4 | Directly issued capital subject to phase out from CET1 (only applicable to non-joint stock companies) | | - | - | - | - | - | - |
| 5 | Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1) | d | 18 | 15 | 13 | 10 | 10 | 8 |
| 6 | Common Equity Tier 1 capital before regulatory adjustments | | 11,910 | 11,708 | 11,539 | 11,451 | 11,087 | 10,816 |
| | Regulatory adjustments to Common Equity Tier 1 capital | | | | | | | |
| 7 | Prudential valuation adjustments | | - | - | - | - | - | - |
| 8 | Goodwill (net of related tax liability) | e -w | (1,675) | (1,671) | (1,671) | (1,668) | (1,671) | (1,662) |
| 9 | Intangible assets other than mortgage-servicing rights | f-x | (1,177) | (1,139) | (1,121) | (1,099) | (1,100) | (1,073) |
| | Deferred tax assets excluding those arising from temporary differences (net of related tax liability) | g | - | - | - | - | - | - |
| | Accumulated other comprehensive income related to cash flow hedges | h | 6 | (48) | (151) | (138) | (137) | (152) |
| 12 | Shortfall of total provisions to expected losses | i | - | - | - | - | - | - |
| 13 | Securitisation gain on sale | | - | - | - | - | - | - |
| 14 | Gains (losses) due to changes in own credit risk on fair valued liabilities | j | 35 | (23) | 32 | 39 | 62 | 81 |
| 15 | Defined benefit pension plan assets (net of related tax liability) | k - y | (7) | (5) | (11) | (93) | (4) | (3) |
| 16 | Investments in own shares (if not already netted off contributed surplus on reported balance sheet) | | - | - | (9) | (3) | (1) | (5) |
| | Reciprocal cross holdings in common equity | | - | - | - | - | - | - |
| 18 | Non-significant investments in capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) | l | - | - | - | - | - | - |
| 19 | Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of | | | | | | | |
| | eligible short positions (amount above 10% threshold) | m | - | - | - | - | - | - |
| 20 | Mortgage servicing rights (amount above 10% threshold) | | - | - | - | - | - | - |
| 21 | Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability) | | - | - | - | - | - | - |
| 22 | Amount exceeding the 15% threshold | | | | | | | |
| 23 | of which: significant investments in the common stock of financials | n | - | - | - | - | - | - |
| 24 | of which: mortgage servicing rights | | - | - | - | - | - | - |
| 25 | of which: deferred tax assets arising from temporary differences | 0 | - | - | - | - | - | - |
| 26 | Other deductions or regulatory adjustments to CET1 as determined by OSFI (including regulatory adjustments in respect of own use property) | | - | - | - | - | - | - |
| 27 | Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions | | - | - | - | - | - | _ |
| 28 | Total regulatory adjustments to Common equity Tier 1 | | (2,818) | (2,886) | (2,931) | (2,962) | (2,851) | (2,814) |
| 29 | Common Equity Tier 1 capital (CET1) | | 9,092 | 8,822 | 8,608 | 8,489 | 8,236 | 8,002 |
| | Additional Tier 1 capital: instruments | | | | | | | |
| 30 | Directly issued qualifying Additional Tier 1 instruments plus related contributed surplus ⁽²⁾ | | 2,450 | 2,450 | 2,450 | 2,450 | 2,150 | 2,150 |
| 31 | of which: classified as equity under applicable accounting standards | v + z | 2,450 | 2,450 | 2,450 | 2,450 | 2,150 | 2,150 |
| 32 | | р | - | - | - | - | - | - |
| 33 | Directly issued capital instruments subject to phase out from Additional Tier 1 ⁽²⁾ | v' + z' + p ' | 350 | 350 | 350 | 350 | 750 | 750 |
| 34 | Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1) | q | 4 | 3 | 3 | 2 | 2 | 2 |
| 35 | of which: instruments issued by subsidiaries subject to phase out | | - | - | - | - | - | - |
| 36 | Additional Tier 1 capital before regulatory adjustments | | 2,804 | 2,803 | 2,803 | 2,802 | 2,902 | 2,902 |
| (4) F | econciliation with Balance Sheet is presented on pages 12 to 13 | | | | | | | |

⁽¹⁾ Reconciliation with Balance Sheet is presented on pages 12 to 13.

⁽²⁾ A complete list of capital instruments and their main features is now available on the Bank's website at nbc.ca under Investor Relations > Capital & Debt Information > Main Features of Regulatory Capital Instruments.

CC1 – Composition of Regulatory Capital (continued)

| | | | 2019 | | | | 18 | | |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|--------|--------|--------|--------|--------|--|
| | | | Q2 | Q1 | Q4 | Q3 | Q2 | Q1 | |
| | | Reference ⁽¹⁾ | | | | | | | |
| 1 | additional Tier 1 capital: regulatory adjustments | | | | | | | | |
| 37 I | nvestments in own Additional Tier 1 instruments | | - | - | - | - | - | - | |
| 38 F | teciprocal cross holdings in Additional Tier 1 instruments | | - | - | - | - | - | - | |
| | lon-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold) | | - | - | - | - | - | - | |
| 40 9 | ignificant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible | | | | | | | | |
| | short positions | | - | - | - | - | - | - | |
| 41 (| Other deductions from Tier 1 capital as determined by OSFI | | - | (1) | (1) | (1) | (1) | (1) | |
| 41a | of which: Reverse mortgages | | - | (1) | (1) | (1) | (1) | (1) | |
| 42 F | tegulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions | | _ | - | - | - | - | - | |
| | otal regulatory adjustments to Additional Tier 1 capital | | _ | (1) | (1) | (1) | (1) | (1) | |
| | Additional Tier 1 capital (AT1) | | 2,804 | 2,802 | 2,802 | 2,801 | 2,901 | 2,901 | |
| | ier 1 capital (T1 = CET1 + AT1) | | 11,896 | 11,624 | 11,410 | 11,290 | 11,137 | 10,903 | |
| | ier 2 capital: instruments and allowances | | | | | | | | |
| | birectly issued qualifying Tier 2 instruments plus related contributed surplus ⁽²⁾ | r | 750 | 750 | 750 | 750 | 750 | - | |
| | Directly issued capital instruments subject to phase out from Tier 2 ⁽²⁾ | r' | 9 | 9 | 9 | 9 | 9 | 8 | |
| 48 1 | ier 2 instruments (and CET1 and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third parties | | | | | | | | |
| | (amount allowed in group Tier 2) | s | 5 | 4 | 4 | 3 | 3 | 2 | |
| 49 | of which: instruments issued by subsidiaries subject to phase out | | - | - | - | _ | _ | _ | |
| 50 A | illowances for credit losses | t | 185 | 188 | 179 | 155 | 164 | 154 | |
| 51 1 | ier 2 capital before regulatory adjustments | | 949 | 951 | 942 | 917 | 926 | 164 | |
| 1 | ier 2 capital: regulatory adjustments | | | | | | | | |
| 52 I | nvestments in own Tier 2 instruments | | - | - | - | - | - | - | |
| | teciprocal cross holdings in Tier 2 instruments and Other TLAC-eligible instruments | | - | - | - | - | - | - ' | |
| 54 N | lon-significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian | | | | | | | | |
| | D-SIBs that are outside the scope of regulatory consolidation, where the institution does not own more than 10% of the issued common share capital of | | | | | | | | |
| | the entity (amount above 10% threshold) | | (55) | (28) | - | - | - | - | |
| 54a [| Reporting row for G-SIBs and D-SIBs only] Non-significant investments in the other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs, | | | | | | | | |
| | where the institution does not own more than 10% of the issued common share capital of the entity: amount previously designated for the 5% | | | | | | | | |
| | threshold but no longer meets the conditions | | (55) | (28) | - | _ | _ | _ | |
| 55 | ignificant 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 | <u> </u> | | | | | - | | |
| 57 1 | otal regulatory adjustments to Tier 2 capital | | (55) | (28) | _ | _ | _ | _ | |
| | ier 2 capital (T2) | | 894 | 923 | 942 | 917 | 926 | 164 | |
| 59 1 | otal capital (TC = T1 + T2) | | 12,790 | 12,547 | 12,352 | 12,207 | 12,063 | 11,067 | |
| (1) Poc | onciliation with Balance Sheet is presented on pages 12 to 13. | | | | | | | | |

⁽¹⁾ Reconciliation with Balance Sheet is presented on pages 12 to 13.

⁽²⁾ A complete list of capital instruments and their main features is now available on the Bank's website at nbc.ca under Investor Relations > Capital & Debt Information > Main Features of Regulatory Capital Instruments.

CC1 – Composition of Regulatory Capital (continued)

| | | 201 | 2019 | | 201 | l8 | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|--------|--------|--------|--------|
| | | Q2 | Q1 | Q4 | Q3 | Q2 | Q1 |
| | | | | | | | |
| | | | | | | | |
| | Total risk-weighted assets | 79,008 | 77,036 | 73,685 | 73,331 | 72,895 | 71,362 |
| 60a | Common Equity Tier 1 Capital RWA (CET1) | 79,008 | 77,036 | 73,654 | 73,268 | 72,834 | 71,179 |
| 60b | Tier 1 Capital RWA | 79,008 | 77,036 | 73,670 | 73,300 | 72,865 | 71,271 |
| 60c | Total capital RWA | 79,008 | 77,036 | 73,685 | 73,331 | 72,895 | 71,362 |
| | Capital ratios | | | | | | |
| 61 | Common Equity Tier 1 (as a percentage of risk weighted assets) | 11.5% | 11.5% | 11.7% | 11.6% | 11.3% | 11.2% |
| 62 | Tier 1 (as a percentage of risk weighted assets) | 15.1% | 15.1% | 15.5% | 15.4% | 15.3% | 15.3% |
| 63 | Total capital (as a percentage of risk weighted assets) | 16.2% | 16.3% | 16.8% | 16.7% | 16.6% | 15.5% |
| 64 | Institution-specific buffer requirement (minimum CET1 requirement plus capital conservation buffer plus G-SIB buffer requirement plus D-SIB buffer requirement | | | | | | |
| | expressed as a percentage of risk weighted assets) | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% |
| 65 | of which: capital conservation buffer requirement | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% |
| 66 | of which: bank-specific countercyclical buffer | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 67 | of which: G-SIB buffer requirement | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 67a | of which: D-SIBs buffer requirement | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| 68 | Common Equity Tier 1 available to meet buffers (as a percentage of risk weighted assets) | 11.5% | 11.5% | 11.7% | 11.6% | 11.3% | 11.2% |
| | OSFI target (minimum + capital conservation buffer + D-SIB buffer)(1) | | | | | | |
| 69 | Common Equity Tier 1 all-in target ratio | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% |
| 70 | Tier 1 capital all-in target ratio | 9.5% | 9.5% | 9.5% | 9.5% | 9.5% | 9.5% |
| 71 | Total capital all-in target ratio | 11.5% | 11.5% | 11.5% | 11.5% | 11.5% | 11.5% |
| | Amounts below the thresholds for deduction (before risk weighting) | | | | | | |
| 72 | Non-significant investments in the capital and other TLAC-eligible instruments of other financials entities | 551 | 549 | 311 | 366 | 481 | 658 |
| 73 | Significant investments in the common stock of financials | 301 | 287 | 270 | 255 | 241 | 235 |
| 74 | Mortgage servicing rights (net of related tax liability) | _ | - | - | - | - | - |
| 75 | Deferred tax assets arising from temporary differences (net of related tax liabilities) | 37 | 42 | 38 | 43 | 58 | 50 |
| | Applicable caps on the inclusion of allowances in Tier 2 | | | | | | |
| 76 | Allowance eligible for inclusion in Tier 2 in respect of exposures subject to standardised approach (prior to application of cap) | 71 | 70 | 67 | 66 | 68 | 61 |
| 77 | Cap on inclusion of allowances in Tier 2 under standardised approach | 102 | 97 | 90 | 89 | 90 | 83 |
| 78 | Allowance eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings-based approach (prior to application of cap) | 114 | 118 | 112 | 89 | 96 | 93 |
| 79 | Cap on inclusion of allowances in Tier 2 under internal ratings-based approach | 336 | 326 | 314 | 307 | 308 | 310 |
| | Capital instruments subject to phase-out arrangements (only applicable between January 1, 2013 and January 1, 2022) | | <u>.</u> | | | | |
| 80 | Current cap on CET1 instruments subject to phase out arrangements | - | - | - | - | _ | _ |
| 81 | Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities) | - | - | - | - | - | - |
| 82 | Current cap on AT1 instruments subject to phase out arrangements | 581 | 581 | 775 | 775 | 775 | 775 |
| 83 | Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities) | _ | - | - | - | - | - |
| 84 | Current cap on T2 instruments subject to phase out arrangements | 715 | 715 | 953 | 953 | 953 | 953 |
| 85 | Amount excluded from T2 due to cap (excess over cap after redemptions and maturities) | _ | _ | _ | _ | _ | _ |
| | not include the domestic stability buffer | | | L | | | |

⁽¹⁾ Do not include the domestic stability buffer.

CC2 – Reconciliation of Regulatory Capital to Balance Sheet⁽¹⁾

| | | Q2 2019 | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------|---------------------------|--|--|--|
| | Cross - Reference to Definition | | Under scope of regulatory | | | |
| | of Capital ⁽² | As in Report to Shareholders | consolidation | | | |
| Assets | | | | | | |
| Cash and deposits with financial institutions | | 10,498 | 10,498 | | | |
| Securities | | 78,621 | 89,325 | | | |
| Non-significant investments in capital of other financial institutions reflected in regulatory capital | L | - | - | | | |
| Other securities | | 78,621 | 89,325 | | | |
| Assets purchased under reverse repurchase agreements and securities borrowed | | 17,193 | 16,180 | | | |
| Loans | | | | | | |
| Residential mortgage | | 54,613 | 33,621 | | | |
| Personal | | 36,738 | 36,738 | | | |
| Credit card | | 2,324 | 759 | | | |
| Business and government | | 48,896 | 48,896 | | | |
| Customers' liability under acceptances | | 6,854 | 6,854 | | | |
| Less: Allowances for credit losses | | (683) | (185) | | | |
| Allowance reflected in Tier 2 regulatory capital | t | _ | (185) | | | |
| Shortfall of allowances to expected loss | i | _ | ` | | | |
| Allowances not reflected in regulatory capital | | _ | (498) | | | |
| Other assets | | | • | | | |
| Derivative financial instruments | | 7,274 | 7,363 | | | |
| Other | | 6,778 | 6,500 | | | |
| Goodwill | e | - | 1,675 | | | |
| Intangibles assets | f | _ | 1,373 | | | |
| Deferred tax assets | | _ | 517 | | | |
| Deferred tax assets excluding those arising from temporary differences | g | _ | - | | | |
| Deferred tax assets arising from temporary differences exceeding regulatory thresholds | 0 | _ | _ | | | |
| Deferred tax assets - realize through loss carrybacks | | _ | 480 | | | |
| Deferred tax assets - other temporary differences | | _ | 37 | | | |
| Defined-benefit pension fund net assets | k | _ | 10 | | | |
| Significant investments in other financial institutions | | _ | 301 | | | |
| Significant investments exceeding regulatory thresholds | m+n | _ | _ | | | |
| Significant investments not exceeding regulatory thresholds | | _ | 301 | | | |
| Other | | _ | 2,624 | | | |
| Total assets | | 269,106 | 256,549 | | | |
| (1) The basis of consolidation used for financial accounting purposes, described in note 1 to the 2018 Annual Report audited consolidated financial s | estaments may differ from regulatory nurnoses. The regula | | • | | | |

⁽¹⁾ The basis of consolidation used for financial accounting purposes, described in note 1 to the 2018 Annual Report audited consolidated financial statements, may differ from regulatory purposes. The regulatory consolidation does not include structured entities, where significant risk has been transferred to third parties nor subsidiaries and associates engaged in insurance activities. Total assets of National Bank Life Insurance Company and other insurance subsidiaries are \$170 million and \$16 million respectively.

⁽²⁾ The references identify balance sheet components which are used in calculation of regulatory capital on pages 9 to 11.

CC2 - Reconciliation of Regulatory Capital to Balance Sheet⁽¹⁾ (continued)

| | | 02 2019 | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------|---------------------------|--|--|
| | Cross - Reference to Definition | | Under scope of regulatory | | |
| | of Capital ⁽²⁾ | As in Report to Shareholders | consolidation | | |
| Liabilities | | | | | |
| Deposits | | 179,419 | 179,419 | | |
| Derivatives financials instruments | | 5,481 | 6,176 | | |
| Other liabilities | | 68,699 | 68,398 | | |
| Gains and losses due to changes in own credit risk on fair value liabilities | j | - | (35) | | |
| Deferred tax liabilities | | - | 156 | | |
| Related to goodwill | w | - | - | | |
| Related to intangibles | х | - | 196 | | |
| Related to pensions | у | - | 3 | | |
| Other deferred tax liabilities | | - | (43) | | |
| Other | | - | 68,277 | | |
| Subordinated debt | | 772 | 772 | | |
| Regulatory capital amortization of maturing debentures | | - | - | | |
| Fair value adjustment and unamortized issuance cost | | - | 13 | | |
| Subordinated debentures not allowed for regulatory capital | s | - | _ | | |
| Subordinated debentures used for regulatory capital | | - | 759 | | |
| Allowed for inclusion in Tier 2 capital | r | _ | 750 | | |
| Subject to phase out | r¹ | - | 9 | | |
| Total liabilities | | 254,371 | 254,765 | | |
| Equity Attributable to Shareholders | | 14,342 | 14,342 | | |
| Common shares | a | - | 2,901 | | |
| Contributed surplus | a¹ | - | 52 | | |
| Retained earnings | b | - | 8,889 | | |
| Accumulated Other Comprehensive Income (loss) | С | _ | 50 | | |
| Net gains (losses) on instruments designated as cash flow hedges | h | - | (6) | | |
| Net foreign currency translation adjustments | | - | 41 | | |
| Other | | - | 15 | | |
| Preferred shares | | _ | 2,450 | | |
| of which: are qualifying | v | - | 2,450 | | |
| of which: are subject to phase out | v¹ | - | · _ | | |
| Non-controlling interest | · | 393 | 386 | | |
| Innovative instruments | | _ | 359 | | |
| of which: are qualifying | | _ | _ | | |
| of which: are subject to phase out | p' | _ | 350 | | |
| Other | • | _ | 9 | | |
| Portion allowed for inclusion into CET1 | d | _ | 18 | | |
| Portion allowed for inclusion into Tier 1 capital | ā | _ | 4 | | |
| Portion allowed for inclusion into Tier 2 capital | s | _ | 5 | | |
| Portion not allowed for regulatory capital | • | _ | _ | | |
| Total Equity | | 14,735 | 14,728 | | |
| Total Liabilities and Equity | | 269,106 | 269,493 | | |
| To the basis of consolidation used for financial accounting purposes, described in note 1 to the 2018 Annual Report audited consolidated financial statements | may differ from regulatory nurneess. The regulat | | | | |

⁽¹⁾ The basis of consolidation used for financial accounting purposes, described in note 1 to the 2018 Annual Report audited consolidated financial statements, may differ from regulatory purposes. The regulatory consolidation does not include structured entities, where significant risk has been transferred to third parties nor subsidiaries and associates engaged in insurance activities. Total assets of National Bank Life Insurance Company and other insurance subsidiaries are \$170 million and \$16 million respectively.

⁽²⁾ The references identify balance sheet components which are used in calculation of regulatory capital on pages 9 to 11.

TLAC1 – TLAC Composition⁽¹⁾

| 2 Additional Tier 1 capital (ATI) before TLAC adjustments 3 ATI incligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ 4 Other adjustments 5 ATI instruments eligible under the TLAC framework 7 Amortised portion of 72 instruments where remaining maturity 1 year 8 To capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ 9 Other adjustments 17 Capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ 9 Other adjustments 18 To capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ 9 Other adjustments 19 To capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ 10 Table ineligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ 11 TLAC arising from regulatory capital 12 Table ineligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ 12 Inactivations the size of directly by the bank and subordinated to excluded liabilities 12 External TLAC instruments issued directly by the bank and subordinated to excluded liabilities to the caps of the caps | | | 20: | 19 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------|---------|---------|
| 1 Common Equily Tier 1 capital (ECF1) 9,902 8,822 2 Additional Tier 1 capital (AT1) before TLAC adjustments 2,804 2,800 3 AT1 ineligible as TLAC as issued out of subsidiaries to third parties ⁵⁰ 2,801 and 1 ineligible as TLAC as issued out of subsidiaries to third parties ⁵⁰ 2,801 and 1 ineligible as TLAC as issued out of subsidiaries to third parties ⁵⁰ 2,801 and 1 ineligible as TLAC as issued out of subsidiaries to third parties ⁵⁰ 9,9 55 4 This instruments eligible under the TLAC framework 2,804 2,800 6 Tier 2 capital (T2) before TLAC adjustments 9,9 9,5 5 4 This instruments eligible under the TLAC framework 9,9 9,5 7 5 Amontised option of 12 instruments where remaining maturity > 1 year 9,9 9,5 (25) 6 Tier 2 capital (T2) before TLAC as issued out of subsidiaries to third parties ⁵⁰ − − − − − − − − − − − − − − − − − − − | | | Q2 | Q1 |
| 2 Additional Tier 1 capital (AT1) before TLAC adjustments 2,804 2,803 AT1 ineligible as TLAC as issued out of subsidiaries to third parties ⁽⁵⁾ Cit of Tier 2 capital (XT1) before TLAC adjustments 2,804 2,800 (1 Fier 2 capital (XT2) before TLAC adjustments 9,94 9,55 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 Amortised portion of 12 instruments where remaining maturity > 1 year 9 9,50 7 (2) 12,54 7 Amortised portion of 12 instruments issued of the Caps 9 12,54 9 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 12,54 1 | | | | |
| 3 ATT ineligible as TLAC as issued out of subsidiaries to third parties ⁽¹⁾ 4 Other adjustments 5 ATT inistruments eligible under the TLAC framework 6 Tler 2 capital (72) before TLAC adjustments 7 Amortised portion of 12 inistruments where remaining maturity 1 year 8 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽²⁾ 9 Other adjustments 9 (55) 9 (21) 10 T2 instruments eligible under the TLAC framework 11 TLAC arising from regulatory capital 12,790 11 TLAC arising from regulatory capital 12,790 12,54 Non-regulatory capital elements of TLAC 13 External TLAC instruments issued directly by the bank and subordinated to excluded liabilities 14 Compared to the capital elements of TLAC 15 External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements 15 External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements 1 Of which as TLAC arising from regulatory capital lements of TLAC 15 External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements 1 Of which as TLAC arising from non-regulatory capital instruments issued by funding wehicles prior to January 1, 2022 15 External TLAC instruments issued by funding wehicles prior to January 1, 2022 16 Eligible ex ante commitments to recapitalise a G-SIB in resolution 17 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC before deductions 1 TLAC before deductions 1 TLAC instruments in own other TLAC liabilities 1 Deductions of exposures between MPEr esolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs) 1 Deduction of investments in own other TLAC liabilities 1 TLAC arising from non-regulatory capital elements of TLAC guitements 1 TLAC series deductions 1 TLAC series adjusted as permitted under the TLAC re | | | ., | 8,822 |
| 4 Other adjustments 5 ATI instruments eligible under the TLAC framework 6 Tier 2 capital (T2) before TLAC adjustments 7 Amortised portion of T2 instruments where remaining maturity > 1 year 8 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽¹⁾ 9 Other adjustments 1 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽²⁾ 1 TAC arising from regulatory capital ineligible and run the TLAC framework 1 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽²⁾ 1 TAC arising from regulatory capital elements of TLAC 1 External TLAC instruments eligible under the TLAC framework 1 TAC arising from regulatory capital elements of TLAC 1 External TLAC instruments issued directly by the bank and subordinated to excluded liabilities 1 Capital ineligible as TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-regulatory capital instruments before adjustments 1 TLAC arising from non-r | | | 2,804 | 2,803 |
| 5 All instruments eligible under the TLAC framework 6 Tier 2 capital (72) before TLAC adjustments 7 Amortised portion of 12 Instruments where remaining maturity 3 tyear 8 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties. 9 Other adjustments 11 TLAC arising from regulatory capital 12 External TLAC instruments issued directly by the bank and subordinated to excluded liabilities 12 External TLAC instruments issued directly by the bank and subordinated to excluded liabilities 14 Of which: amount eligible as TLAC after application of the caps 15 External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements 16 External TLAC instruments issued of winding vehicles prior to January 1, 2022 16 Eligible ex ante commitments to recapitalise a G-SIB in resolution 17 TLAC arising from non-regulatory capital instruments before adjustments 18 TLAC before deductions 19 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs) 13,986 12,54 13 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs) 13,986 12,54 13 Deduction of investments in own other TLAC liabilities 19 Deduction of investments in own other TLAC purposes 11,977 12,54 13 TLAC available after deductions 13 Deduction of investments in own other TLAC purposes 13 TLAC available after deductions 14 Deduction of investments in own other TLAC purposes 15 TLAC available after deductions 15 TLAC available after deductions 16 TLAC available after deductions 17 TLAC available after deductions 18 TLAC available after deductions 19 Deduction of investments in own other TLAC purposes 11 TLAC available after deductions 11 TLAC available after deductions 12 TLAC | | | - | - |
| 6 Tier 2 capital (T2) before TIAC adjustments 7 Amortised portion of T2 instruments where remaining maturity > 1 year 8 To 2 capital ineligible as TIAC as issued out of subsidiaries to third parties ¹²⁹ 9 Other adjustments 10 T2 instruments eligible under the TIAC framework 11 TIAC arising from regulatory capital elements of TIAC 12 External TIAC instruments is issued directly by the bank and subordinated to excluded liabilities 1 External TIAC instruments is sused directly by the bank and subordinated to excluded liabilities 1 Considerable of the considerable of the caps 1 Consid | | | - | (1) |
| 7 Amortised portion of T2 instruments where remaining maturity > 1 year 8 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties ^(C) 9 Other adjustments 10 T2 instruments eligible under the TLAC framework 11 TLAC arising from regulatory capital 11 TLAC arising from regulatory capital 12 (790) 12 (54) Non-regulatory capital elements of TLAC 12 External TLAC instruments issued directly by the bank and subordinated to excluded liabilities 13 External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements 14 Of which: amount eligible as TLAC after application of the caps 15 External TLAC instruments issued of inciting welricles prior to January 1, 2022 16 Eligible ex ante commitments to recapitalise a G-SIB in resolution 17 TLAC arising from non-regulatory capital instruments before adjustments 18 TLAC before deductions 19 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs) 19 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs) 19 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs) 19 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs) 19 Deduction of investments in own other TLAC liabilities 10 Other adjustments to TLAC 20 TLAC available after deductions 20 Deduction of investments in own other TLAC liabilities 21 Other adjustments to TLAC 22 TLAC available after deductions 23 Total risk-weighted assets adjusted as permitted under the TLAC regime 24 Leverage exposure measure 25 TLAC available after deductions 26 TLAC ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime) 27 TLAC ratio (as a percentage of risk-weighted assets | | V | 2,804 | 2,802 |
| 8 72 capital ineligible as TLAC as issued out of subsidiaries to third parties ⁽²⁾ 9 Other adjustments 10 72 instruments eligible under the TLAC framework 10 72 instruments eligible under the TLAC framework 11 TAC arising from regulatory capital elements of TLAC 12 External TLAC instruments issued directly by the bank and subordinated to excluded liabilities 13 External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements 11,196 12 External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements 11,196 12 External TLAC instruments issued by funding vehicles prior to January 1, 2022 13 External TLAC instruments issued by funding vehicles prior to January 1, 2022 14 Eligible ex ante commitments to recapitalise a G-SIB in resolution 15 External TLAC instruments is over a policy and in the capital provided in the capital provi | | | 949 | 951 |
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| Leverage exposure measure TLAC ratios and buffers TLAC ratios and buffers TLAC ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime) TLAC Leverage ratio (as a percentage of leverage exposure) TLAC Leverage ratio (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements Institution-specific buffer requirement (capital conservation buffer plus countercyclical buffer plus higher loss absorbency, expressed as a percentage of risk-weighted assets) 3.5% 3.5% 3.5% 2.5% 2.5% | | | | |
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| TLAC ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime) 17.7% 16.30 17.7% 16.30 17.7% 16.30 17.7% 16.30 17.7% 16.30 17.7% 16.30 17.7% 18.30 18.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19.40 19 | 24 | | 296,118 | 286,655 |
| TLAC Leverage ratio (as a percentage of leverage exposure) 4.7% 4.44 CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements n.a. n.b. 1.5% 3.5% 3.5% 3.5% 3.5% 3.5% 3.5% 3.5% 3.5% | | | | |
| 27 CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements 1. Institution-specific buffer requirement (capital conservation buffer plus countercyclical buffer plus higher loss absorbency, expressed as a percentage of risk-weighted assets) 2.5 Of which: capital conservation buffer 2.5 Of which: capital conservation buffer | | | | 16.3% |
| 28 Institution-specific buffer requirement (capital conservation buffer plus countercyclical buffer plus higher loss absorbency, expressed as a percentage of risk-weighted assets) 3.5% 2.5% 2.5% 2.5% | | | 4.7% | 4.4% |
| 29 Of which: capital conservation buffer 2.5% 2.5% | | | | n.a. |
| | | | | 3.5% |
| 120 L Of which, hank anacific countayouslical huffor | | , | 2.5% | 2.5% |
| | 30 | Of which: bank specific countercyclical buffer | - | - |
| 31 Of which: D-SIB \ G-SIB buffer 1.0% 1.0% | 31 | Of which: D-SIB \ G-SIB buffer | 1.0% | 1.0% |

⁽¹⁾ Minimum TLAC ratios will be required starting November 1st, 2021.

⁽²⁾ AT1 and T2 capital issued out of subsidiaries to third parties will be eligible as TLAC up to January 1st, 2022.

TLAC3 – Creditor Ranking at Legal Entity Level⁽¹⁾

| | | | | Q2 : | 2019 | | - |
|----|---------------------------------------------------------------------------------------|---------------|------------------|-------------------|------------------|------------------------------------------------|--------------|
| | | | | Creditor ranking | | | Sum (1 to 5) |
| | | 1 | | | 4 ⁽²⁾ | 5 ⁽³⁾ | |
| | | Most junior | 2 | 3 | Most | senior | |
| 1 | Description of creditor ranking | Common shares | Preferred shares | Subordinated debt | Bail-in debt | Other liabilities excluding Bail-in debt | |
| 2 | Total capital and liabilities net of credit risk mitigation | 2,901 | 2,450 | | 1,196 | | 7,306 |
| | Subset of row 2 that are excluded liabilities | - | - | _ | 9 | _ | 9 |
| 4 | Total capital and liabilities less excluded liabilities (row 2 minus row 3) | 2,901 | 2,450 | 759 | 1,187 | - | 7,297 |
| 5 | Subset of row 4 that are potentially eligible as TLAC | 2,901 | 2,450 | 759 | 1,187 | _ | 7,297 |
| 6 | Subset of row 5 with 1 year ≤ residual maturity < 2 years | - | _ | - | 696 | _ | 696 |
| 7 | Subset of row 5 with 2 years ≤ residual maturity < 5 years | - | _ | - | 491 | _ | 491 |
| 8 | Subset of row 5 with 5 years ≤ residual maturity < 10 years | - | _ | 750 | - | _ | 750 |
| 9 | Subset of row 5 residual maturity \geq 10 years, but excluding perpetual securities | _ | _ | 9 | _ | _ | 9 |
| 10 | Subset of row 5 that is perpetual securities | 2,901 | 2,450 | _ | _ | _ | 5,351 |

| | | | | Q1 2 | 019 | | |
|----|----------------------------------------------------------------------------------|---------------|------------------|-------------------|------------------|-------------------------------------|--------------|
| | | | | Creditor ranking | | | Sum (1 to 5) |
| | | 1 | | | 4 ⁽²⁾ | 5 ⁽³⁾ | |
| | | Most junior | 2 | 3 | Most : | senior | |
| | | | | | | Other liabilities excluding Bail-in | |
| 1 | Description of creditor ranking | Common shares | Preferred shares | Subordinated debt | Bail-in debt | debt | |
| 2 | Total capital and liabilities net of credit risk mitigation | 2,880 | 2,450 | 759 | _ | - | 6,089 |
| 3 | Subset of row 2 that are excluded liabilities | _ | - | - | _ | - | - |
| 4 | Total capital and liabilities less excluded liabilities (row 2 minus row 3) | 2,880 | 2,450 | 759 | _ | - | 6,089 |
| 5 | Subset of row 4 that are potentially eligible as TLAC | 2,880 | 2,450 | 759 | _ | - | 6,089 |
| 6 | Subset of row 5 with 1 year ≤ residual maturity < 2 years | - | - | - | _ | - | - |
| 7 | Subset of row 5 with 2 years ≤ residual maturity < 5 years | - | - | - | - | - | - |
| 8 | Subset of row 5 with 5 years ≤ residual maturity < 10 years | - | - | 750 | _ | - | 750 |
| 9 | Subset of row 5 residual maturity ≥ 10 years, but excluding perpetual securities | - | - | 9 | - | - | 9 |
| 10 | Subset of row 5 that is perpetual securities | 2,880 | 2,450 | - | _ | - | 5,330 |

⁽¹⁾ This table provides creditors of the legal entity National Bank of Canada with information regarding their ranking in its liabilities structure.

⁽²⁾ Bail-in Debt is reflected as subordinated to Other Liabilities. Under the Bail-in Regime, Bail-in Debt which would ordinarily rank equally to Other Liabilities in liquidation, is subject to conversion under statutory resolution powers whereas Other Liabilities are not subject to such conversion.

⁽³⁾ OSFI doesn't require to complete this column at this time.

LR1 – Summary Comparison of Accounting Assets vs Leverage Ratio Exposure Measure

| | | 20 | 19 | | 20 | 18 | |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|
| | | Q2 | Q1 | Q4 | Q3 | Q2 | Q1 |
| | Accounting assets vs. leverage ratio exposure | _ | | | | | - |
| 1 | Total consolidated assets as per published financial statements | 269,106 | 263,355 | 262,471 | 257,637 | 256,259 | 251,065 |
| 2 | Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of | | | | | | |
| | regulatory consolidation | 4 | (3) | (15) | (33) | (58) | (68) |
| | Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference ⁽¹⁾ | (890) | (904) | - | - | - | - |
| 4 | Adjustment for fiduciary assets recognised on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio | | | | | | |
| | exposure measure | - | _ | - | - | - | - |
| 5 | Adjustment for derivative financial instruments ⁽²⁾ | 5,814 | 3,808 | 2,684 | 2,939 | 3,090 | 3,635 |
| 6 | Adjustment for securities financing transactions (i.e. repos and similar secured lending) ⁽²⁾ | 3,279 | 1,920 | 1,122 | 3,062 | 2,516 | (487) |
| 7 | Adjustment for off-balance sheet items (i.e. conversion to credit equivalent amounts of off-balance sheet exposures) | 22,941 | 23,050 | 22,162 | 21,492 | 21,796 | 20,713 |
| 8 | Other adjustments | (4,136) | (4,571) | (4,087) | (4,401) | (4,777) | (5,299) |
| 9 | Leverage Ratio Exposure | 296,118 | 286,655 | 284,337 | 280,696 | 278,826 | 269,559 |

⁽¹⁾ OSFI's October 2018 Leverage Requirements Guideline now allows for the exclusion of securitized exposures that meet the operational requirements for risk transference. This exclusion is not applicable for prior quarters.

⁽²⁾ Adjustments due to differences between accounting and regulatory netting standards.

LR2 - Leverage Ratio Common Disclosure Template

| Page | | | 20 | 19 | | 20 | 18 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|
| Doublaince sheet exousures | | | Q2 | Q1 | Q4 | Q3 | Q2 | Q1 |
| On-balance sheet items (excluding derivatives, STS and grandfathered securitization exposures but including collateral provided where deducted from balance sheet assets pursuant to the operative accounting framework | | Leverage ratio common disclosure | | | | | | |
| Company Comp | | On-balance sheet exposures | | | | | | |
| 3 Cleductions of receivables assets for cash variation margin provided in derivative transactions) Clear | | | 242,471 | 238,422 | 234,603 | 232,327 | 228,798 | 223,550 |
| A sest amounts deducted in determining Basel III Tier 1 capital) (2,852) (2,855) (3,003) (3,003) (2,914) (2,897) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) (3,097) | 2 | | - | _ | - | - | - | , - I |
| Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of rows 1 to 4) 239,519 231,600 229,324 220,683 220,653 220 229,324 220,653 220,653 220 229,324 220,653 220,633 230,007 2,483 3,897 4,034 4,270 3,991 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 4,040 | 3 | | - | _ | - | - | _ | - |
| Derivative exposures | 4 | | ` ' ' | ` , , | ` , | | | . , . , |
| 6 Replacement cost associated with all derivative transactions (where applicable net of eligible cash variation margin and/or with bilateral netting) 3,007 2,483 3,897 4,034 4,270 3,991 7 Add-on amounts for PFE associated with all derivative transactions 10,058 8,463 7,373 6,020 6,725 8,166 8 (Exempted CCP leg of client-cleared trade exposures) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -< | 5 | Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of rows 1 to 4) | 239,619 | 235,557 | 231,600 | 229,324 | 225,884 | 220,653 |
| 7 Add-on amounts for PFE associated with all derivative transactions 10,058 8,463 7,373 6,502 6,725 8,166 8 (Exempted CCP leg of client-cleared trade exposures) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | | | | | | | | |
| 8 Exempted CCP leg of client-cleared trade exposures) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | | |
| 9 Adjusted effective notional amount of written credit derivatives 23 20 22 29 - 4 10 (Adjusted effective notional amount of written credit derivatives) 1.0 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <th></th> <th></th> <th>10,058</th> <th>8,463</th> <th>7,373</th> <th>6,502</th> <th>6,725</th> <th>8,166</th> | | | 10,058 | 8,463 | 7,373 | 6,502 | 6,725 | 8,166 |
| 10 Adjusted effective notional offsets and add-on deductions for written credit derivatives) 1 Total derivative exposures (sum of rows 6 to 10) 1 3,088 10,966 11,292 10,505 10,995 12,161 Securities financing transaction exposures 12 Gross SFT assets (with no recognition of netting), after adjusting for sale accounting transactions 17,193 15,162 18,159 16,253 17,636 16,520 13 (Metted amounts of cash payables and cash receivables of gross SFT assets) (662) (2,063) (2,974) (1,127) (2,196) (4,637) 14 CCR exposure for SFTs assets 3,940 3,983 4,07 4,189 4,712 4,149 15 Agent transaction exposures 20,471 17,082 19,282 19,315 20,152 16,032 Off-balance sheet exposures 16 Total securities financing transaction exposures (sum of rows 12 to 15) 20,471 17,082 19,282 19,315 20,152 16,032 Off-balance sheet exposure at gross notional amount 71,962 71,961 70,091 68,194 66,194 4 (Justration exposures 22,940 23,050 <th></th> <th></th> <th>-</th> <th>_</th> <th>-</th> <th>-</th> <th>_</th> <th>- </th> | | | - | _ | - | - | _ | - |
| 1 Total derivative exposures (sum of rows 6 to 10) 13,088 10,966 11,292 10,565 10,995 12,161 Securities financing transaction exposures | | | 23 | 20 | 22 | 29 | _ | 4 |
| Securities financing transaction exposures 17,193 15,162 18,159 16,253 17,636 16,520 13 (Netted amounts of cash payables and cash receivables of gross SFT assets) (662) (2,063) (2,974) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,637) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) (1,127) (2,196) (4,197) | | , | - | _ | _ | - | - | - |
| 17. Gross SFT assets (with no recognition of netting), after adjusting for sale accounting transactions 17. (Netted amounts of cash payables and cash receivables of gross SFT assets) 18. (Netted amounts of cash payables and cash receivables of gross SFT assets) 19. (CR exposure for SFTs assets) 19. (CR exposure for SFTs assets) 19. (Agent transaction exposures) 19. (Total securities financing transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 12 to 15) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent transaction exposures (sum of rows 5, 11, 16 and 19) 29. (Agent tr | 11 | | 13,088 | 10,966 | 11,292 | 10,565 | 10,995 | 12,161 |
| 13 (Netted amounts of cash payables and cash receivables of gross SFT assets) (662) (2,063) (2,974) (1,127) (2,196) (4,637) 14 CCR exposure for SFTs assets 3,940 3,983 4,097 4,189 4,712 4,149 15 Agent transaction exposures - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <th></th> <th></th> <th>•</th> <th>•</th> <th></th> <th></th> <th></th> <th></th> | | | • | • | | | | |
| 14 CCR exposure for SFTs assets 3,940 3,983 4,097 4,189 4,712 4,149 15 Agent transaction exposures | | | | | | | | |
| 15 Agent transaction exposures — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<> | | | | | | | | |
| 16 Total securities financing transaction exposures (sum of rows 12 to 15) 20,471 17,082 19,282 19,315 20,152 16,032 Other off-balance sheet exposures 17 Off-balance sheet exposure at gross notional amount (Adjustments for conversion to credit equivalent amounts) 71,962 71,491 70,091 68,195 68,811 66,194 18 (Adjustments for conversion to credit equivalent amounts) (49,022) (48,441) (47,928) (46,703) (47,016) (45,481) 19 Off-balance sheet items (sum of rows 17 and 18) 22,940 23,050 22,163 21,492 21,795 20,713 Capital and Total Exposures 11,896 11,624 11,410 11,290 11,137 10,903 21 Total Exposures (sum of rows 5, 11, 16 and 19) 296,118 286,655 284,337 280,696 278,826 269,559 Leverage Ratio | | · · | 3,940 | 3,983 | 4,097 | 4,189 | 4,712 | 4,149 |
| Other off-balance sheet exposures 17 Off-balance sheet exposure at gross notional amount (Adjustments for conversion to credit equivalent amounts) 71,962 71,491 70,091 68,195 68,811 66,194 (47,928) (46,703) (47,016) (45,481) 19 Off-balance sheet items (sum of rows 17 and 18) 22,940 23,050 22,163 21,492 21,795 20,713 Capital and Total Exposures 11,896 11,624 11,410 11,290 11,137 10,903 21 Total Exposures (sum of rows 5, 11, 16 and 19) 296,118 286,655 284,337 280,696 278,826 269,559 Leverage Ratio | | · · | _ | - | _ | - | - | _ |
| 17 Off-balance sheet exposure at gross notional amount (Adjustments for conversion to credit equivalent amounts) 71,962 71,491 70,091 68,195 68,811 66,194 (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) (47,016) | 16 | | 20,471 | 17,082 | 19,282 | 19,315 | 20,152 | 16,032 |
| 18 (Adjustments for conversion to credit equivalent amounts) (49,022) (48,441) (47,928) (46,703) (47,016) (45,481) 19 Off-balance sheet items (sum of rows 17 and 18) 22,940 23,050 22,163 21,492 21,795 20,713 Capital and Total Exposures 20 Tier 1 capital Total Exposures (sum of rows 5, 11, 16 and 19) 11,896 11,624 11,410 11,290 11,137 10,903 296,118 286,655 284,337 280,696 278,826 269,559 Leverage Ratio Leverage Ratio | | | | 1 | | | | |
| 19 Off-balance sheet items (sum of rows 17 and 18) 22,940 23,050 21,492 21,795 20,713 Capital and Total Exposures 20 Tier 1 capital Total Exposures (sum of rows 5, 11, 16 and 19) 11,896 11,624 11,410 11,290 11,137 10,903 21 Total Exposures (sum of rows 5, 11, 16 and 19) 296,118 286,655 284,337 280,696 278,826 269,559 Leverage Ratio | | | | | | | , | |
| Capital and Total Exposures | | | | | | | | |
| 20 Tier 1 capital 11,896 11,624 11,410 11,290 11,137 10,903 21 Total Exposures (sum of rows 5, 11, 16 and 19) 296,118 286,655 284,337 280,696 278,826 269,559 Leverage Ratio | 19 | | 22,940 | 23,050 | 22,163 | 21,492 | 21,795 | 20,713 |
| 21 Total Exposures (sum of rows 5, 11, 16 and 19) 286,655 284,337 280,696 278,826 269,559 Leverage Ratio | | | | | | | | |
| Leverage Ratio | | | | | , | | | • |
| | 21 | | 296,118 | 286,655 | 284,337 | 280,696 | 278,826 | 269,559 |
| 22 Basel III leverage ratio 4.0% 4.1% 4.0% 4.0% 4.0% 4.0% 4.0% 4.0% 4.0% 4.0 | | | | 1 | | | | |
| | 22 | Basel III leverage ratio | 4.0% | 4.1% | 4.0% | 4.0% | 4.0% | 4.0% |

CR1 – Credit Quality of Assets⁽¹⁾

(unaudited) (millions of Canadian dollars)

The following tables provide a comprehensive picture of the credit quality of a bank's (on- and off-balance sheet) assets.

| | | | Q2 2 | 019 | | | Q1 2 | 019 | |
|---|----------------------------------------------|--------------------------------------------------------|---------|-----------------------|------------|-----------------------------------------|-----------------------|-----------------------|------------|
| | | a | b | С | d | a | b | С | d |
| | | Gross carrying values ⁽²⁾ of Allo | | Allowances for credit | Net values | Gross carrying values ⁽²⁾ of | | Allowances for credit | Net values |
| | | Default exposures ⁽³⁾ Non-default exposures | | losses ⁽⁴⁾ | (a+b-c) | Default exposures(3) | Non-default exposures | losses ⁽⁴⁾ | (a+b-c) |
| 1 | Loans ⁽⁵⁾ | 596 | 129,857 | 684 | 129,769 | 572 | 129,558 | 665 | 129,465 |
| 2 | Debt Securities | - | 16,360 | 1 | 16,359 | _ | 16,791 | 1 | 16,790 |
| 3 | Off-balance-sheet commitments ⁽⁶⁾ | 24 | 69,391 | 62 | 69,353 | 22 | 68,892 | 62 | 68,852 |
| 4 | Total | 620 | 215,608 | 747 | 215,481 | 594 | 215,241 | 728 | 215,107 |

| | | | Q4 2 | 018 | |
|---|----------------------------------------------|----------------------|----------------------------------------|-----------------------|------------|
| | | a | b | С | d |
| | | Gı | ross carrying values ⁽²⁾ of | Allowances for credit | Net values |
| | | Default exposures(3) | Non-default exposures | losses ⁽⁴⁾ | (a+b-c) |
| 1 | Loans ⁽⁵⁾ | 593 | 129,888 | 659 | 129,822 |
| 2 | Debt Securities | - | 15,723 | 1 | 15,722 |
| 3 | Off-balance-sheet commitments ⁽⁶⁾ | 19 | 67,419 | 54 | 67,384 |
| 4 | Total | 612 | 213,030 | 714 | 212,928 |

⁽¹⁾ Excludes insurances subsidiaries and securitization exposures.

⁽²⁾ Gross carrying values of on- and off-balance sheet items that give rise to a credit risk exposure according to the Basel framework (gross of CCF or CRM techniques).

⁽³⁾ Definition of default as per the CAR guidelines.

⁽⁴⁾ Represent allowances for credit losses according to IFRS 9.

⁽⁵⁾ Includes deposits with financial institutions.

⁽⁶⁾ For completeness purposes, revocable commitments are included.

CR2 – Changes in Stock of Defaulted Loans and Debt Securities

(unaudited) (millions of Canadian dollars)

The following table identifies the change in a bank's stock of defaulted exposures, the flows between non-defaulted and defaulted exposure categories and reductions in the stock of defaulted exposures due to write-offs.

| | | Q2 2019 | Q1 2019 |
|---|-------------------------------------------------------------------------------|---------|---------|
| | | a | a |
| 1 | Defaulted loans ⁽¹⁾ and debt securities at beginning | 572 | 593 |
| 2 | Loans and debt securities that have defaulted since the last reporting period | 200 | 226 |
| 3 | Returned to non-defaulted status since the last reporting period | (32) | (47) |
| 4 | Amounts written off | (80) | (85) |
| 5 | Other changes ⁽²⁾ | (64) | (115) |
| 6 | Defaulted loans ⁽¹⁾ and debt securities at end | 596 | 572 |

⁽¹⁾ Includes deposits with financial institutions

⁽²⁾ Includes net repayments and foreign exchange movements.

CR3 – Credit Risk Mitigation Techniques - Overview

(unaudited) (millions of Canadian dollars)

The following tables disclose the extent of use of credit risk mitigation techniques.

| | | | | Q2 2019 | | |
|---|----------------------|-------------------------------|--------------------------------------|---------------------------------|--------------------------------|-----------------------------|
| | | a | b1 | b | d | f |
| | | Exposures unsecured: carrying | Exposures subject to risk | | Exposures secured by financial | Exposures secured by credit |
| | | amount ⁽¹⁾ | mitigation techniques ⁽¹⁾ | Exposures secured by collateral | guarantees | derivatives |
| 1 | Loans ⁽²⁾ | 68,496 | 61,937 | 56,564 | 5,279 | - |
| 2 | Debt securities | 16,360 | - | - | - | - |
| 3 | Total | 84,856 | 61,937 | 56,564 | 5,279 | _ |
| 4 | Of which defaulted | 332 | 239 | 206 | 31 | _ |

| | | | | Q1 2019 | | |
|---|----------------------|-------------------------------|--------------------------------------|---------------------------------|--------------------------------|-----------------------------|
| | | a | b1 | b | d | f |
| | | Exposures unsecured: carrying | Exposures subject to risk | | Exposures secured by financial | Exposures secured by credit |
| | | amount ⁽¹⁾ | mitigation techniques ⁽¹⁾ | Exposures secured by collateral | guarantees | derivatives |
| 1 | Loans ⁽²⁾ | 68,659 | 61,438 | 56,140 | 5,220 | - |
| 2 | Debt securities | 16,791 | - | ı | _ | - |
| 3 | Total | 85,450 | 61,438 | 56,140 | 5,220 | - |
| 4 | Of which defaulted | 290 | 243 | 204 | 36 | _ |

| | | | | Q4 2018 | | |
|---|----------------------|-------------------------------|--------------------------------------|---------------------------------|--------------------------------|-----------------------------|
| | | a | b1 | b | d | f |
| | | Exposures unsecured: carrying | Exposures subject to risk | | Exposures secured by financial | Exposures secured by credit |
| | | amount ⁽¹⁾ | mitigation techniques ⁽¹⁾ | Exposures secured by collateral | guarantees | derivatives |
| 1 | Loans ⁽²⁾ | 69,401 | 61,049 | 55,526 | 5,436 | _ |
| 2 | Debt securities | 15,723 | - | ı | _ | _ |
| 3 | Total | 85,124 | 61,049 | 55,526 | 5,436 | - |
| 4 | Of which defaulted | 255 | 299 | 260 | 37 | _ |

⁽¹⁾ Carrying amounts of on-balance sheet exposures are net of all three ECL Stages.

⁽²⁾ Includes deposits with financial institutions.

Distribution of Gross Credit Risk Exposure (Non-Retail Portfolio by Industries)

| | | 2019 2018 | | | | | | | | | | | | | | | | |
|------------------------------------------------|--------|-------------|-------|--------------|-------------|---------|--------|-------------|-------------|---------------------------|-------------|---------|--------|-------------|-------|--------------|-------------|---------|
| | | | C |)2 | | | | | (| Q1 | | | | | (| Q4 | | |
| | | | | | | | | | EAD - Gross | s Exposure ⁽¹⁾ | | | | | | | | |
| | | Undrawn | | Repo-style | OTC | | | Undrawn | | Repo-style | ОТС | | | Undrawn | | Repo-style | | |
| | Drawn | commitments | Other | transactions | Derivatives | Total | Drawn | commitments | Other | transactions | Derivatives | Total | Drawn | commitments | Other | transactions | Derivatives | Total |
| Non-Retail Portfolio | | | | | | | | | | | | | | | | | | |
| Agriculture | 5,080 | 316 | 4 | - | _ | 5,400 | 4,919 | 288 | 4 | _ | - | 5,211 | 4,794 | 321 | 4 | _ | _ | 5,119 |
| Oil & Gas and Pipelines ⁽²⁾ | 3,974 | 3,557 | 275 | - | _ | 7,806 | 4,445 | 3,402 | 253 | _ | - | 8,100 | 4,131 | 3,384 | 245 | - | - | 7,760 |
| Oil and Gas | 2,659 | 2,158 | 147 | - | - | 4,964 | 2,792 | 2,035 | 147 | - | - | 4,974 | 2,582 | 2,058 | 151 | - | - | 4,791 |
| Pipelines & Other | 1,315 | 1,399 | 128 | - | - | 2,842 | 1,653 | 1,367 | 106 | - | - | 3,126 | 1,549 | 1,326 | 94 | - | - | 2,969 |
| Mining | 687 | 937 | 135 | - | _ | 1,759 | 915 | 976 | 146 | - | - | 2,037 | 959 | 878 | 137 | - | - | 1,974 |
| Utilities | 3,672 | 2,169 | 790 | - | _ | 6,631 | 3,239 | 1,910 | 774 | _ | - | 5,923 | 3,145 | 1,861 | 754 | - | - | 5,760 |
| Construction Non-Real Estate ⁽²⁾⁽³⁾ | 1,393 | 867 | 118 | - | _ | 2,378 | 1,215 | 585 | 109 | _ | - | 1,909 | 1,236 | 427 | 122 | - | - | 1,785 |
| Manufacturing ⁽²⁾ | 5,878 | 2,151 | 218 | - | _ | 8,247 | 5,294 | 1,999 | 217 | _ | - | 7,510 | 5,283 | 1,878 | 233 | - | - | 7,394 |
| Wholesale | 2,593 | 603 | 56 | - | - | 3,252 | 2,092 | 700 | 55 | _ | - | 2,847 | 2,102 | 693 | 52 | - | - | 2,847 |
| Retail | 3,333 | 1,162 | 44 | - | - | 4,539 | 3,349 | 1,018 | 46 | _ | - | 4,413 | 2,970 | 1,052 | 43 | - | - | 4,065 |
| Transportation ⁽²⁾ | 1,537 | 775 | 71 | 8 | - | 2,391 | 1,514 | 1,066 | 69 | 19 | - | 2,668 | 1,488 | 1,070 | 71 | 31 | - | 2,660 |
| Communications | 1,394 | 882 | 627 | - | _ | 2,903 | 1,560 | 816 | 819 | _ | - | 3,195 | 1,608 | 644 | 193 | - | - | 2,445 |
| Finance and Insurance | 23,261 | 3,706 | 1,732 | 113,243 | 1,572 | 143,514 | 26,530 | 3,665 | 1,444 | 105,098 | 3,418 | 140,155 | 28,673 | 3,606 | 1,118 | 113,436 | 4,138 | 150,971 |
| Real Estate and Construction | | | | | | | | | | | | | | | | | | |
| Real Estate ⁽²⁾⁽⁴⁾ | 11,092 | 2,813 | 236 | - | _ | 14,141 | 10,484 | 2,747 | 244 | _ | - | 13,475 | 11,107 | 2,748 | 204 | - | - | 14,059 |
| Professional Services | 1,668 | 623 | 354 | - | _ | 2,645 | 1,519 | 774 | 360 | _ | - | 2,653 | 1,384 | 704 | 372 | - | - | 2,460 |
| Education & Health Care ⁽²⁾ | 3,242 | 1,401 | 8 | 2 | _ | 4,653 | 3,326 | 1,318 | 7 | 2 | - | 4,653 | 3,153 | 1,219 | 8 | 3 | - | 4,383 |
| Other Services | 4,420 | 1,406 | 356 | - | _ | 6,182 | 4,497 | 1,473 | 348 | 15 | - | 6,333 | 4,481 | 1,320 | 350 | 1 | 1 | 6,153 |
| Government | 4,596 | 1,353 | 3 | 15,269 | 197 | 21,418 | 4,489 | 1,438 | 3 | 20,389 | 232 | 26,551 | 2,119 | 1,288 | 3 | 19,979 | 46 | 23,435 |
| Other | 4,726 | 33 | 128 | 1,268 | - | 6,155 | 3,839 | 32 | 482 | 822 | _ | 5,175 | 3,355 | 32 | 471 | 410 | 13 | 4,281 |
| Total – Non-retail ⁽⁵⁾ | 82,546 | 24,754 | 5,155 | 129,790 | 1,769 | 244,014 | 83,226 | 24,207 | 5,380 | 126,345 | 3,650 | 242,808 | 81,988 | 23,125 | 4,380 | 133,860 | 4,198 | 247,551 |

⁽¹⁾ EAD amounts are after securitization and exclude trading related portfolio.

⁽²⁾ The presentation of certain borrower categories has been changed in Q1 2019. Comparative figures have been revised.

⁽³⁾ Includes civil engineering, public private partnership and project finance loans.

⁽⁴⁾ Includes residential mortgages 5 units and more.

⁽⁵⁾ This total excludes SME retail exposure.

Distribution of Gross Credit Risk Exposure (Non-Retail Portfolio by Industries) (continued)

| | | | | | | | | | 20 | 018 | | | | | | | | |
|------------------------------------------------|--------|-------------|-------|--------------|-------------|---------|--------|-------------|-------------|---------------------------|-------------|---------|--------|-------------|-------|--------------|-------------|---------|
| | | | Q | 13 | | | | | (| Q2 | | | | | (| Q1 | | |
| | | | | | | | | | EAD - Gross | s Exposure ⁽¹⁾ | | | | | | | | |
| | | Undrawn | | Repo-style | OTC | | | Undrawn | | Repo-style | | | | Undrawn | | Repo-style | | |
| | Drawn | commitments | Other | transactions | Derivatives | Total | Drawn | commitments | Other | transactions | Derivatives | Total | Drawn | commitments | Other | transactions | Derivatives | Total |
| Non-Retail Portfolio | | | | | | | | | | | | | | | | | | |
| Agriculture | 4,657 | 327 | 6 | _ | - | 4,990 | 4,338 | 417 | 6 | _ | - | 4,761 | 4,156 | 268 | 7 | _ | - | 4,431 |
| Oil & Gas and Pipelines ⁽²⁾ | 3,850 | 3,490 | 225 | 8 | - | 7,573 | 3,457 | 3,874 | 217 | _ | - | 7,548 | 3,410 | 3,430 | 185 | _ | - | 7,025 |
| Oil and Gas | 2,458 | 2,148 | 131 | 8 | - | 4,745 | 2,302 | 2,146 | 129 | _ | - | 4,577 | 2,244 | 1,972 | 117 | _ | - | 4,333 |
| Pipelines & Other | 1,392 | 1,342 | 94 | - | - | 2,828 | 1,155 | 1,728 | 88 | - | - | 2,971 | 1,166 | 1,458 | 68 | - | - | 2,692 |
| Mining | 808 | 838 | 120 | _ | - | 1,766 | 764 | 861 | 120 | _ | - | 1,745 | 385 | 833 | 45 | _ | - | 1,263 |
| Utilities | 2,905 | 1,866 | 720 | _ | 1 | 5,492 | 2,544 | 1,964 | 677 | _ | 1 | 5,186 | 2,604 | 1,848 | 601 | _ | - | 5,053 |
| Construction Non-Real Estate ⁽²⁾⁽³⁾ | 1,388 | 370 | 91 | _ | - | 1,849 | 1,502 | 449 | 96 | _ | - | 2,047 | 1,403 | 311 | 109 | _ | - | 1,823 |
| Manufacturing ⁽²⁾ | 5,029 | 1,751 | 242 | _ | - | 7,022 | 4,614 | 1,919 | 256 | _ | - | 6,789 | 4,336 | 2,049 | 235 | _ | - | 6,620 |
| Wholesale | 2,128 | 578 | 56 | _ | - | 2,762 | 2,090 | 580 | 43 | _ | - | 2,713 | 1,936 | 589 | 37 | _ | - | 2,562 |
| Retail | 2,973 | 1,128 | 41 | _ | - | 4,142 | 3,068 | 1,119 | 46 | _ | - | 4,233 | 3,126 | 1,106 | 45 | _ | - | 4,277 |
| Transportation ⁽²⁾ | 1,446 | 1,013 | 67 | 30 | - | 2,556 | 1,487 | 835 | 66 | 32 | - | 2,420 | 1,467 | 793 | 65 | 29 | - | 2,354 |
| Communications | 1,627 | 646 | 194 | _ | - | 2,467 | 1,567 | 778 | 193 | _ | - | 2,538 | 1,408 | 832 | 190 | _ | - | 2,430 |
| Finance and Insurance | 25,243 | 3,295 | 846 | 115,720 | 3,614 | 148,718 | 23,236 | 3,494 | 601 | 125,811 | 4,167 | 157,309 | 22,533 | 3,222 | 597 | 127,147 | 4,427 | 157,926 |
| Real Estate and Construction | | | | | | | | | | | | | | | | | | |
| Real Estate ⁽²⁾⁽⁴⁾ | 10,312 | 2,405 | 194 | _ | - | 12,911 | 10,431 | 2,329 | 202 | 51 | - | 13,013 | 10,189 | 2,233 | 156 | 58 | - | 12,636 |
| Professional Services | 1,365 | 653 | 345 | _ | - | 2,363 | 1,315 | 653 | 360 | _ | - | 2,328 | 1,210 | 661 | 360 | _ | - | 2,231 |
| Education & Health Care ⁽²⁾ | 3,175 | 1,030 | 7 | 6 | - | 4,218 | 3,042 | 1,264 | 8 | 3 | - | 4,317 | 3,092 | 1,162 | 9 | 5 | - | 4,268 |
| Other Services | 4,602 | 1,236 | 331 | 3 | - | 6,172 | 4,621 | 1,199 | 279 | 3 | - | 6,102 | 4,427 | 1,248 | 285 | - | - | 5,960 |
| Government | 5,448 | 1,183 | 12 | 19,611 | 447 | 26,701 | 4,480 | 1,349 | 18 | 18,584 | - | 24,431 | 4,450 | 1,376 | 16 | 19,100 | - | 24,942 |
| Other | 3,089 | 32 | 505 | 1,081 | - | 4,707 | 2,966 | 32 | 566 | 1,542 | 22 | 5,128 | 2,652 | 34 | 584 | 112 | 5 | 3,387 |
| Total – Non-retail ⁽⁵⁾ | 80,045 | 21,841 | 4,002 | 136,459 | 4,062 | 246,409 | 75,522 | 23,116 | 3,754 | 146,026 | 4,190 | 252,608 | 72,784 | 21,995 | 3,526 | 146,451 | 4,432 | 249,188 |

⁽¹⁾ EAD amounts are after securitization and exclude trading related portfolio.

⁽²⁾ The presentation of certain borrower categories has been changed in Q1 2019. Comparative figures have been revised.

⁽³⁾ Includes civil engineering, public private partnership and project finance loans.

⁽⁴⁾ Includes residential mortgages 5 units and more.

⁽⁵⁾ This total excludes SME retail exposure.

Gross Credit Risk Exposure at Default in Europe⁽¹⁾

(unaudited) (millions of Canadian dollars)

Drawn commitments

157

869

for collateral

Total – Net Credit Risk(4)

| | | | | | | 20 | 19 | | | | | | | | 201 | .8 | | |
|------------------------|-------|-------------|-----------------------------|--------------|----------------|--------|-------|-------------|-----------------|--------------|----------------|--------|-------|-------------|-----------------------------|--------------|----------------------------|--------|
| | | | Q | 2 | | | | | Q | l | | | | | Q4 | ì | | |
| | | | | | Other | | | | | | Other | | | | | | Other | |
| | | Undrawn | Repo-style | OTC | off-balance | | | Undrawn | Repo-style | OTC | off-balance | | | Undrawn | Repo-style | OTC | off-balance | ł |
| | Drawn | commitments | transactions ⁽²⁾ | derivatives | sheet items(3) | Total | Drawn | commitments | transactions(2) | derivatives | sheet items(3) | Total | Drawn | commitments | transactions ⁽²⁾ | derivatives | sheet items ⁽³⁾ | Tota |
| Greece | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ireland | 61 | 37 | 257 | - | - | 355 | 52 | 22 | 317 | - | 1 | 392 | 54 | 19 | 6,578 | 6 | - | 6,657 |
| Italy | - | _ | _ | - | 2 | 2 | - | _ | - | - | - | - | - | - | 99 | - | 1 | 100 |
| Portugal | - | _ | _ | - | - | _ | - | _ | - | - | 40 | 40 | - | - | - | - | - | - |
| Spain | - | _ | 14 | - | 40 | 54 | 1 | _ | 14 | - | - | 15 | 1 | - | - | 1 | 42 | 44 |
| Total GIIPS | 61 | 37 | 271 | _ | 42 | 411 | 53 | 22 | 331 | I | 41 | 447 | 55 | 19 | 6,677 | 7 | 43 | 6,801 |
| France | 25 | 52 | 1,325 | 1 | 49 | 1,452 | 22 | 36 | 1,349 | 1 | 29 | 1,437 | 14 | 39 | 1,579 | 2 | 262 | 1,896 |
| Germany | 152 | 44 | 19 | 28 | 23 | 266 | 148 | 45 | - | 24 | 253 | 470 | 143 | 51 | - | 8 | 27 | 229 |
| United Kingdom | 513 | 21 | 17,154 | 1,722 | 1 | 19,411 | 786 | _ | 16,612 | 941 | 4 | 18,343 | 538 | _ | 18,101 | 3,015 | 3 | 21,657 |
| Other Europe | 118 | 3 | 1,999 | 176 | 11 | 2,307 | 100 | 4 | 1,643 | 169 | 9 | 1,925 | 87 | 4 | 1,837 | 102 | 9 | 2,039 |
| Total – Credit Risk | 869 | 157 | 20,768 | 1,927 | 126 | 23,847 | 1,109 | 107 | 19,935 | 1,135 | 336 | 22,622 | 837 | 113 | 28,194 | 3,134 | 344 | 32,622 |
| | _ | | | | | | | | | | | | | | | | | |
| | | | Ne | t Repo-Style | Other | | | | Ne | t Repo-Style | Other | | | | Ne | t Repo-Style | Other | ĺ |
| Adjustment to exposure | | Undrawn | transacti | ons and OTC | off-balance | | | Undrawn | transacti | ons and OTC | off-balance | | | Undrawn | transactio | ons and OTC | off-balance | ı |

derivatives sheet items(3)

587

Drawn commitments

113

837

Total

2,139

336

derivatives sheet items(3)

2,185

| | | | | | | | | | 201 | 18 | | | | | | | | |
|---------------------|-------|---------|-----------------------------|-------|----------------------|--------|-------|---------|-----------------------------|-------|----------------------|--------|-------|---------|-----------------------------|-------|----------------------|--------|
| | | | Q: | 3 | | | | | Q | 2 | | | | | Q: | l | | |
| | | Undrawn | Repo-style | ОТС | Other off-balance | | | Undrawn | Repo-style | ОТС | Other off-balance | | | Undrawn | Repo-style | ОТС | Other off-balance | |
| | Drawn | | transactions ⁽²⁾ | | | Total | Drawn | | transactions ⁽²⁾ | | | Total | Drawn | | transactions ⁽²⁾ | | | |
| Greece | - | - | _ | _ | _ | - | - | - | _ | - | - | - | - | - | - | - | - | - |
| Ireland | 49 | 14 | 6,135 | 3 | - | 6,201 | 66 | - | 6,232 | 10 | - | 6,308 | - | - | 4,467 | 4 | - | 4,471 |
| Italy | - | _ | 200 | - | 1 | 201 | - | - | 100 | - | 1 | 101 | - | - | - | - | - | - |
| Portugal | - | _ | - | - | - | - | - | - | - | - | - | _ | - | - | - | - | - | - |
| Spain | 1 | _ | - | 3 | 40 | 44 | 2 | - | ı | 1 | 47 | 50 | - | - | - | 7 | 46 | 53 |
| Total GIIPS | 50 | 14 | 6,335 | 6 | 41 | 6,446 | 68 | - | 6,332 | 11 | 48 | 6,459 | _ | - | 4,467 | 11 | 46 | 4,524 |
| France | 13 | 41 | 1,300 | 2 | 250 | 1,606 | 31 | 43 | 1,326 | 207 | 243 | 1,850 | 147 | 34 | 768 | 206 | 315 | 1,470 |
| Germany | 140 | 59 | - | 8 | 37 | 244 | 141 | 64 | - | 7 | 41 | 253 | - | - | - | 2 | 37 | 39 |
| United Kingdom | 384 | _ | 18,156 | 1,733 | 2 | 20,275 | 565 | 1 | 16,137 | 1,837 | 2 | 18,542 | 721 | 7 | 16,657 | 1,510 | 4 | 18,899 |
| Other Europe | 51 | 4 | 153 | 98 | 9 | 315 | 86 | 4 | 2,182 | 112 | 9 | 2,393 | 45 | 4 | 2,388 | 140 | 53 | 2,630 |
| Total – Credit Risk | 638 | 118 | 25,944 | 1,847 | 339 | 28,886 | 891 | 112 | 25,977 | 2,174 | 343 | 29,497 | 913 | 45 | 24,280 | 1,869 | 455 | 27,562 |

| | | | Net Repo-Style | Other | | | | Net Repo-Style | Other | | | | Net Repo-Style | Other | |
|----------------------------|-------|-------------|----------------------|----------------|-------|-------|-------------|----------------------|----------------|-------|-------|-------------|----------------------|----------------|-------|
| Adjustment to exposure | | Undrawn | transactions and OTC | off-balance | | | Undrawn | transactions and OTC | off-balance | | | Undrawn | transactions and OTC | off-balance | |
| for collateral | Drawn | commitments | derivatives | sheet items(3) | Total | Drawn | commitments | derivatives | sheet items(3) | Total | Drawn | commitments | derivatives | sheet items(3) | Total |
| Total – Net Credit Risk(4) | 638 | 118 | 1,291 | 339 | 2,386 | 891 | 112 | 2,088 | 343 | 3,434 | 913 | 45 | 1,575 | 455 | 2,988 |

⁽¹⁾ Exposure at default is the expected gross exposure upon the default of an obligor. This amount is before any specific allowance or partial write-offs and does not reflect the impact of credit risk mitigation and collateral held. This table excludes Equity exposures.

derivatives sheet items(3)

671

Total

1,823

126

Drawn commitments

107

1,109

⁽²⁾ Represents securities purchased under reverse repurchase agreements and sold under repurchase agreements, and securities borrowed and loaned.

⁽³⁾ Letters of guarantee and credit that represent the Bank's commitment to make payments in the event that a client cannot meet its financial obligations to third parties.

⁽⁴⁾ For drawn, undrawn and Other off-balance sheet exposures, eligible financial collateral is taken into account in the Bank's Loss Given Default (LGD) models.

CR4 – Standardised Approach - Credit Risk Exposure and Credit Risk Mitigation (CRM) Effects⁽¹⁾

(unaudited) (millions of Canadian dollars)

The following tables illustrate the effect of CRM on standardised approach capital requirements' calculations. RWA density provides a synthetic metric on riskiness of each portfolio.

| | | | | Q2 2019 | | | |
|----|-----------------------------------------------|-------------------------|----------------------------|-------------------------|---------------------------|--------|-------------|
| | | a | b | С | d | e | f |
| | | Exp | oosures before CCF and CRM | E | xposures post-CCF and CRM | | |
| | Assets classes | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| 1 | Sovereigns and their central banks | 1,293 | 47 | 1,293 | - | 786 | 61% |
| 2 | Non-central government public sector entities | - | - | - | - | - | 0% |
| 3 | Multilateral development banks | 20 | - | 20 | - | - | 0% |
| 4 | Financial institutions | 444 | 2,546 | 444 | 202 | 496 | 77% |
| 5 | Securities firms | - | - | - | - | - | 0% |
| 6 | Corporates | 3,022 | 570 | 3,022 | 95 | 1,933 | 62% |
| 7 | Regulatory retail portfolios | 4,943 | 86 | 4,943 | 17 | 2,000 | 40% |
| 8 | Secured by residential property | 4,406 | 39 | 4,406 | 19 | 1,669 | 38% |
| 9 | Secured by commercial real estate | 108 | - | 108 | _ | 108 | 100% |
| 10 | Equity | - | - | - | _ | - | 0% |
| 11 | Past-due loans | 32 | 16 | 32 | _ | 21 | 66% |
| 12 | Higher-risk categories | 4 | - | 4 | _ | 7 | 175% |
| 13 | Other assets ⁽²⁾ | 13,557 | _ | 13,557 | _ | 3,231 | 24% |
| 14 | Total | 27,829 | 3,304 | 27,829 | 333 | 10,251 | 36% |

| | 1 | | | Q1 2019 | | <u>.</u> | |
|----|-----------------------------------------------|-------------------------|----------------------------|-------------------------|---------------------------|----------|-------------|
| | | a | b | С | d | e | f |
| | | Exp | posures before CCF and CRM | E | xposures post-CCF and CRM | | |
| | Assets classes | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| 1 | Sovereigns and their central banks | 998 | 48 | 998 | 1 | 648 | 65% |
| 2 | Non-central government public sector entities | - | - | - | - | - | 0% |
| 3 | Multilateral development banks | 20 | - | 20 | - | - | 0% |
| 4 | Financial institutions | 433 | 2,752 | 433 | 364 | 635 | 80% |
| 5 | Securities firms | - | - | - | - | - | 0% |
| 6 | Corporates | 2,817 | 474 | 2,817 | 39 | 1,700 | 60% |
| 7 | Regulatory retail portfolios | 5,150 | - | 5,150 | _ | 2,102 | 41% |
| 8 | Secured by residential property | 4,049 | 39 | 4,049 | 20 | 1,548 | 38% |
| 9 | Secured by commercial real estate | 75 | - | 75 | - | 75 | 100% |
| 10 | Equity | - | - | - | _ | - | 0% |
| 11 | Past-due loans | 33 | 14 | 33 | _ | 21 | 64% |
| 12 | Higher-risk categories | 4 | - | 4 | - | 6 | 150% |
| 13 | Other assets ⁽²⁾ | 13,078 | _ | 13,078 | _ | 2,853 | 22% |
| 14 | Total | 26,657 | 3,327 | 26,657 | 423 | 9,588 | 35% |

⁽¹⁾ Excludes items subject to securitization and counterparty credit risk frameworks.

⁽²⁾ For completeness purposes, row 13 "Other assets" is populated with all other assets except the ones involved in settlement risk, CVA, CCPs and non-significant investments in financials.

CR4 – Standardised Approach - Credit Risk Exposure and Credit Risk Mitigation (CRM) Effects⁽¹⁾ (continued)

| | ŕ | | | | - | - | |
|----|-----------------------------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------|-------------|
| | | | | Q4 2018 | | | |
| | | a | b | С | d | е | f |
| | | Exp | oosures before CCF and CRM | E | Exposures post-CCF and CRM | | |
| | Assets classes | On-balance sheet amount | Off-balance sheet amount | On-balance sheet amount | Off-balance sheet amount | RWA | RWA density |
| 1 | Sovereigns and their central banks | 800 | 46 | 800 | - | 516 | 65% |
| 2 | Non-central government public sector entities | - | _ | - | - | - | 0% |
| 3 | Multilateral development banks | 20 | _ | 20 | - | - | 0% |
| 4 | Financial institutions | 257 | 3,235 | 257 | 503 | 623 | 82% |
| 5 | Securities firms | - | - | - | - | - | 0% |
| 6 | Corporates | 2,221 | 545 | 2,221 | 87 | 1,511 | 65% |
| 7 | Regulatory retail portfolios | 5,837 | - | 5,837 | - | 2,301 | 39% |
| 8 | Secured by residential property | 3,875 | 39 | 3,875 | 20 | 1,486 | 38% |
| 9 | Secured by commercial real estate | 70 | - | 70 | - | 70 | 100% |
| 10 | Equity | - | - | - | - | - | 0% |
| 11 | Past-due loans | 38 | 11 | 38 | - | 26 | 68% |
| 12 | Higher-risk categories | 4 | - | 4 | - | 6 | 150% |
| 13 | Other assets ⁽²⁾ | 14,495 | - | 14,495 | _ | 2,802 | 19% |
| 14 | Total | 27,617 | 3,876 | 27,617 | 610 | 9,341 | 33% |

⁽¹⁾ Excludes items subject to securitization and counterparty credit risk frameworks.

⁽²⁾ For completeness purposes, row 13 "Other assets" is populated with all other assets except the ones involved in settlement risk, CVA, CCPs and non-significant investments in financials.

CR5 – Standardised Approach - Exposures by Asset Classes and Risk Weights⁽¹⁾

(unaudited) (millions of Canadian dollars)

The following tables present the breakdown of credit risk exposures under the standardised approach by asset class and risk weight (corresponding to the riskiness attributed to the exposure according to standardised approach).

| | | | | | | C | 2 2019 | | | | |
|----|-----------------------------------------------|--------|------|------|-------|------|--------|-------|------|--------|-----------------------------------------------|
| | | a | b | С | d | e | f | g | h | i | j |
| | Risk weight | 09/ | 109/ | 208/ | 250/ | F09/ | 75% | 100% | 150% | Othore | Total credit exposures amount (post-CCF |
| _ | Asset classes | 0% | 10% | 20% | 35% | 50% | /5% | 100% | 150% | Others | |
| 1 | Sovereigns and their central banks | 507 | _ | _ | _ | - | _ | 786 | _ | _ | 1,293 |
| 2 | Non-central government public sector entities | - | - | _ | _ | _ | _ | _ | _ | _ | - |
| 3 | Multilateral development banks | 20 | - | _ | - | - | - | - | - | - | 20 |
| 4 | Financial institutions | _ | _ | 188 | - | - | - | 458 | _ | - | 646 |
| 5 | Securities firms | _ | _ | _ | _ | _ | - | - | - | - | - |
| 6 | Corporates | 1,183 | _ | _ | _ | - | _ | 1,934 | _ | _ | 3,117 |
| 7 | Regulatory retail portfolios | 2,292 | _ | _ | _ | _ | 2,668 | - | _ | - | 4,960 |
| 8 | Secured by residential property | 620 | _ | _ | 2,986 | 11 | 758 | 50 | _ | - | 4,425 |
| 9 | Secured by commercial real estate | _ | _ | _ | _ | _ | - | 108 | _ | - | 108 |
| 10 | Equity | _ | _ | _ | _ | _ | - | _ | _ | - | - |
| 11 | Past-due loans | 11 | _ | _ | _ | _ | - | 20 | 1 | - | 32 |
| | Higher-risk categories | _ | _ | _ | _ | _ | _ | _ | 4 | _ | 4 |
| 13 | Other assets ⁽²⁾ | 10,832 | _ | _ | _ | _ | _ | 2,387 | _ | 338 | 13,557 |
| 14 | Total | 15,465 | _ | 188 | 2,986 | 11 | 3,426 | 5,743 | 5 | 338 | 28,162 |

| | | | | | | | Q1 2019 | - | - | | |
|----|-----------------------------------------------|--------|-----|-----|-------|-----|---------|-------|------|--------|----------------------------------------------------------------|
| | _ | a | b | С | d | e | f | g | h | i | j |
| | Risk weight Asset classes | 0% | 10% | 20% | 35% | 50% | 75% | 100% | 150% | Others | Total credit exposures amount (post-CCF and post-CRM) |
| | Sovereigns and their central banks | 347 | - | - | - | 5 | - | 646 | - | - | 998 |
| | Non-central government public sector entities | - | _ | _ | _ | - | _ | - | _ | _ | - |
| | Multilateral development banks | 20 | _ | _ | _ | _ | _ | _ | _ | _ | 20 |
| 4 | Financial institutions | _ | - | 202 | _ | _ | _ | 595 | _ | _ | 797 |
| 5 | Securities firms | _ | - | _ | _ | _ | _ | _ | _ | _ | _ |
| 6 | Corporates | 1,156 | - | _ | _ | - | - | 1,700 | - | _ | 2,856 |
| 7 | Regulatory retail portfolios | 2,347 | - | _ | _ | - | 2,803 | - | - | _ | 5,150 |
| 8 | Secured by residential property | 547 | - | _ | 2,751 | 11 | 721 | 39 | _ | - | 4,069 |
| 9 | Secured by commercial real estate | - | - | _ | - | _ | - | 75 | - | _ | 75 |
| 10 | Equity | - | - | _ | - | - | - | - | _ | - | - |
| 11 | Past-due loans | 12 | - | _ | - | _ | - | 20 | 1 | _ | 33 |
| 12 | Higher-risk categories | - | - | _ | - | _ | _ | _ | 4 | - | 4 |
| 13 | Other assets ⁽²⁾ | 10,718 | _ | _ | _ | _ | _ | 2,031 | _ | 329 | 13,078 |
| 14 | Total | 15,147 | _ | 202 | 2,751 | 16 | 3,524 | 5,106 | 5 | 329 | 27,080 |

⁽¹⁾ Excludes items subject to securitization and counterparty credit risk frameworks.

⁽²⁾ For completeness purposes, row 13 "Other assets" is populated with all other assets except the ones involved in settlement risk, CVA, CCPs and non-significant investments in financials.

CR5 – Standardised Approach - Exposures by Asset Classes and Risk Weights⁽¹⁾ (continued)

| | | | | | | | Q4 2018 | • | _ | • | |
|----|-----------------------------------------------|--------|-----|-----|-------|-----|---------|-------|------|--------|-----------------------------------------------|
| | | a | b | С | d | e | f | g | h | i | j |
| | Risk weight | | | | | | | | | | Total credit exposures amount (post-CCF |
| | Asset classes | 0% | 10% | 20% | 35% | 50% | 75% | | 150% | Others | |
| 1 | Sovereigns and their central banks | 283 | - | - | _ | 4 | _ | 513 | _ | _ | 800 |
| | Non-central government public sector entities | - | - | - | _ | - | _ | - | _ | - | - |
| 3 | Multilateral development banks | 20 | - | - | _ | - | _ | _ | _ | - | 20 |
| 4 | Financial institutions | - | - | 170 | _ | 1 | _ | 589 | _ | _ | 760 |
| 5 | Securities firms | - | - | _ | _ | - | _ | _ | _ | - | _ |
| 6 | Corporates | 797 | - | _ | _ | - | _ | 1,511 | _ | - | 2,308 |
| 7 | Regulatory retail portfolios | 2,769 | - | _ | _ | - | 3,068 | _ | _ | - | 5,837 |
| 8 | Secured by residential property | 608 | - | _ | 2,465 | 13 | 770 | 39 | _ | - | 3,895 |
| 9 | Secured by commercial real estate | - | - | _ | _ | - | _ | 70 | _ | - | 70 |
| 10 | Equity | - | - | _ | _ | - | _ | _ | _ | - | - |
| 11 | Past-due loans | 12 | - | - | _ | _ | _ | 25 | 1 | _ | 38 |
| 12 | Higher-risk categories | - | - | - | _ | _ | _ | _ | 4 | _ | 4 |
| 13 | Other assets ⁽²⁾ | 12,155 | - | _ | _ | - | _ | 2,032 | _ | 308 | 14,495 |
| 14 | Total | 16,644 | - | 170 | 2,465 | 18 | 3,838 | 4,779 | 5 | 308 | 28,227 |

⁽¹⁾ Excludes items subject to securitization and counterparty credit risk frameworks.

⁽²⁾ For completeness purposes, row 13 "Other assets" is populated with all other assets except the ones involved in settlement risk, CVA, CCPs and non-significant investments in financials.

CR6 - IRB - Credit Risk Exposures by Portfolio and PD Range

(unaudited) (millions of Canadian dollars)

The following tables provide the main parameters used for the calculation of capital requirements for IRB models. The purpose of disclosing these parameters is to enhance the transparency of banks' RWA calculations and the reliability of regulatory measures.

| | | | | | | | Q2 2019 | | | | | | |
|-----------------------------|---------------------------------------|----------------|-------------------------------------|----------------------------|------------------------------|---------------------------|-----------------------------------|----------------------------|------------------------------------|--------------------|----------------------------|--------------------|---------------------------------|
| | | a | b | С | d | e | f | g | h | i | j | k | l |
| | | | Off-balance sheet | | | | | | | | | | |
| | PD scale ⁽¹⁾ | balance sheet | exposures pre CCF ⁽²⁾ | Average CCF ⁽³⁾ | EAD post CRM and post-CCF | Average PD ⁽⁴⁾ | Number of obligors ⁽⁵⁾ | Average LGD ⁽⁶⁾ | Average maturity ⁽⁷⁾ | RWA ⁽⁸⁾ | RWA density ⁽⁹⁾ | EL ⁽¹⁰⁾ | Allowances for credit losses |
| | | gross exposure | pre ccr | Average CCF** | | - | ű | Ŭ | <i>,</i> | RWA** | | EL | credit losses |
| and UELOCa | 0.00 to < 0.15 | 674 | - | - | 674 | 0.08% | 52,553 | 5.8% | | 7 | 1.1% | _ | |
| insured | 0.15 to < 0.25 | 296 | - | - | 296 | 0.20% | 19,509 | 5.7% | | 7 | 2.3% | _ | |
| | 0.25 to < 0.50 | 404 | - | - | 404 | 0.36% | 21,933 | 4.8% | | 12 | 2.9% | _ | |
| | 0.50 to < 0.75 | 207 | - | - | 207 | 0.60% | 9,169 | 4.6% | | 8 | 4.0% | _ | |
| | 0.75 to < 2.50 | 301 | - | - | 301 | 1.31% | 14,418 4,096 | 3.5% | | 15 | 5.1% 9.8% | _ | |
| | 2.50 to < 10.00 | 103 | - | - | 103 | 4.85% | - | 3.1% | | 10 | | | |
| | 10.00 to < 100.00 100.00 (Default) | 66 41 | - | - | 66 41 | 28.89% | 1,520 635 | 3.0% 2.8% | | 11 5 | 16.2% 12.3% | 1 | |
| | , , | - | - | _ | · | 100.00% | | | | , | | 2 | - |
| Residential Mortgages | Sub-total | 2,092 | - | | 2,092 | 3.48% | 123,833 | 4.9% | | 75 | 3.6% | 2 | 5 |
| and HELOCA tentanend | 0.00 to < 0.15 | 23,293 | 14,054 | 50% | 30,250 | 0.07% | 192,715 | 20.4% | | 1,072 | 3.5% | 4 | |
| | 0.15 to < 0.25 | 6,099 | 947 | 68% | 6,739 | 0.19% | 30,341 | 23.0% | | 614 | 9.1% | 3 | |
| | 0.25 to < 0.50 | 5,705 | 875 | 70% | 6,316 | 0.34% | 25,886 | 23.3% | | 861 | 13.6% | 5 | |
| | 0.50 to < 0.75 | 2,226 | 183 | 72% | 2,358 | 0.61% | 9,621 | 23.5% | | 496 | 21.0% | 3 | |
| | 0.75 to < 2.50 | 2,262 | 222 | 67% | 2,412 | 1.28% | 11,035 | 23.0% | | 804 | 33.3% | / | |
| | 2.50 to < 10.00 | 680 | 44 | 66% | 710 | 4.60% | 3,874 | 22.6% | | 493 | 69.5% | 7 | |
| | 10.00 to < 100.00 | 188 | 2 | 143% | 190 | 23.67% | 1,261 | 23.1% | | 233 | 122.2% | 11 | |
| | 100.00 (Default) Sub-total | 98 40,551 | 16,329 | 138% 52% | 101 49,076 | 100.00% | 704 275,437 | 22.2% 21.4% | | 156 4,729 | 155.0% 9.6% | 12 | 30 |
| Qualifying revolving retail | | | | | | 0.57% | | | | | | 52 | 50 |
| 1 , , , | 0.00 to < 0.15 | 733 | 5,477 | 39% 51% | 2,858 | 0.05% | 881,158 | 79.2% 79.7% | | 72 28 | 2.5% 8.6% | 1 | |
| | 0.15 to < 0.25 0.25 to < 0.50 | 194 309 | 268 297 | 54% | 331 469 | 0.20% | 117,918 | 79.7% 80.0% | | 64 | | 1 | |
| | 0.50 to < 0.75 | 230 | 147 | 63% | 322 | 0.36% 0.63% | 146,352 70,356 | 77.8% | | 67 | 13.5% 20.8% | 1 | |
| | 0.75 to < 2.50 | 642 | 206 | 65% | 776 | 1.44% | 230,741 | 82.8% | | 324 | 41.8% | 9 | |
| | 2.50 to < 10.00 | 383 | 43 | 95% | 424 | 4.47% | 223,202 | 84.8% | | 394 | 93.0% | 16 | |
| | 10.00 to < 100.00 | 67 | 3 | 69% | 69 | 23.33% | 30,571 | 83.0% | | 146 | 210.6% | 14 | |
| | 100.00 (Default) | 24 | _ | 16% | 24 | 100.00% | 4,158 | 72.7% | | 35 | 145.9% | 15 | |
| | Sub-total | 2,582 | 6,441 | 42% | 5,273 | 1.44% | 1,704,456 | 80.2% | | 1,130 | 21.4% | 59 | 195 |
| Other retail | 0.00 to < 0.15 | 2,160 | 1,937 | 43% | 2,992 | 0.06% | 112,317 | 49.6% | | 258 | 8.6% | 1 | _,, |
| | 0.15 to < 0.25 | 827 | 180 | 68% | 950 | 0.20% | 44,094 | 53.6% | | 209 | 22.0% | 1 | |
| | 0.25 to < 0.50 | 1,346 | 237 | 71% | 1,514 | 0.36% | 76,515 | 57.1% | | 511 | 33.7% | 3 | |
| | 0.50 to < 0.75 | 1,039 | 206 | 81% | 1,207 | 0.63% | 53,175 | 58.5% | | 577 | 47.8% | 4 | |
| | 0.75 to < 2.50 | 3,004 | 281 | 74% | 3,213 | 1.39% | 206,817 | 63.2% | | 2,295 | 71.5% | 29 | |
| | 2.50 to < 10.00 | 913 | 65 | 74% | 961 | 4.34% | 68,656 | 66.0% | | 917 | 95.4% | 28 | |
| | 10.00 to < 100.00 | 263 | 5 | 56% | 265 | 18.84% | 14,900 | 64.5% | | 356 | 134.3% | 33 | |
| | 100.00 (Default) | 105 | 2 | 62% | 106 | 100.00% | 6,890 | 57.4% | | 178 | 166.8% | 50 | |
| | Sub-total | 9,657 | 2,913 | 53% | 11,208 | 2.32% | 583,364 | 57.6% | | 5,301 | 47.3% | 149 | 135 |

⁽¹⁾ Prescribed PD bands based on BIS document on Revised Pillar 3 disclosure requirements issued in January 2015.

⁽²⁾ Represents the exposure value without taking into account value adjustments and provisions, conversion factors and the effect of credit risk mitigation techniques.

⁽³⁾ Represents the EAD post-credit conversion factor (CCF) for off-balance sheet exposure to total off-balance sheet exposure pre CCF.

⁽⁴⁾ Represents the obligor grade PD weighted by EAD.

⁽⁵⁾ Represents the number of retail accounts.

⁽⁶⁾ Represents the obligor grade LGD (net of any CRM effect) weighted by EAD.

⁽⁷⁾ Represents the obligor maturity in years weighted by EAD. This parameter needs to be filled in only when it is used for the RWA calculation.

⁽⁸⁾ Risk weighted assets before applying the 1.06 scaling factor.

⁽⁹⁾ Total risk-weighted assets to EAD post-CRM.

⁽¹⁰⁾ The expected losses (EL) as calculated according to paragraphs 375 - 379 of the Basel framework.

CR6 - IRB - Credit Risk Exposures by Portfolio and PD Range (continued)

| | | | | | | | Q2 2019 | | | | | | |
|------------------------|---------------------------------------|-------------------------------------------------|----------------------------------------------------------|----------------------------|------------------------------|---------------------------|-----------------------------------|----------------------------|------------------------------------|--------------------|----------------------------|--------------------|------------------------------|
| | | a | b | С | d | e | f | g | h | i | j | k | l |
| | PD scale ⁽¹⁾ | Original on- balance sheet gross exposure | Off-balance sheet exposures pre CCF ⁽²⁾ | Average CCF ⁽³⁾ | EAD post CRM and post-CCF | Average PD ⁽⁴⁾ | Number of obligors ⁽⁵⁾ | Average LGD ⁽⁶⁾ | Average maturity ⁽⁷⁾ | RWA ⁽⁸⁾ | RWA density ⁽⁹⁾ | EL ⁽¹⁰⁾ | Allowances for credit losses |
| Corporate | 0.00 to < 0.15 | 1,341 | 3,006 | 74% | 4,611 | 0.08% | 758 | 46.6% | 2.33 | 1,118 | 24.2% | 2 | |
| | 0.15 to < 0.25 | 12,368 | 9,669 | 82% | 24,010 | 0.21% | 3,592 | 36.3% | 2.66 | 7,521 | 31.3% | 18 | |
| | 0.25 to < 0.50 | 9,672 | 4,782 | 81% | 15,587 | 0.36% | 2,359 | 35.6% | 2.42 | 6,098 | 39.1% | 20 | |
| | 0.50 to < 0.75 | 7,333 | 1,916 | 89% | 9,852 | 0.56% | 2,596 | 33.0% | 2.28 | 4,165 | 42.3% | 18 | |
| | 0.75 to < 2.50 | 13,444 | 2,451 | 84% | 17,053 | 1.13% | 6,157 | 33.7% | 1.95 | 9,428 | 55.3% | 65 | |
| | 2.50 to < 10.00 | 2,160 | 272 | 69% | 2,595 | 4.80% | 1,240 | 29.4% | 1.69 | 1,980 | 76.3% | 38 | |
| | 10.00 to < 100.00 | 196 | 17 | 73% | 212 | 17.25% | 55 | 30.2% | 1.02 | 275 | 129.6% | 11 | |
| | 100.00 (Default) | 303 | 2 | 40% | 309 | 100.00% | 211 | 26.2% | 1.19 | 252 | 81.6% | 120 | |
| | Sub-total | 46,817 | 22,115 | 81% | 74,229 | 1.11% | 16,968 | 35.5% | 2.33 | 30,837 | 41.5% | 292 | 322 |
| Sovereign | 0.00 to < 0.15 | 23,582 | 4,439 | 97% | 29,478 | 0.01% | 579 | 8.9% | 2.57 | 487 | 1.7% | - | |
| | 0.15 to < 0.25 | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | - | |
| | 0.25 to < 0.50 | _ | _ | _ | _ | _ | _ | - | _ | _ | - | _ | |
| | 0.50 to < 0.75 | _ | _ | - | _ | _ | - | - | _ | _ | - | - | |
| | 0.75 to < 2.50 | - | | - | - | - | - | - | - | - | - | - | |
| | 2.50 to < 10.00 | 68 | 21 | 95% | 90 | 5.61% | 5 | 14.8% | 1.66 | 41 | 45.6% | 1 | |
| | 10.00 to < 100.00 | - | - | - | - | - | - | - | - | - | - | - | |
| | 100.00 (Default) | _ | _ | _ | _ | _ | _ | - | _ | _ | _ | - | |
| | Sub-total | 23,650 | 4,460 | 97% | 29,568 | 0.03% | 584 | 8.9% | 2.57 | 528 | 1.8% | 1 | 2 |
| Financial institutions | 0.00 to < 0.15 | 1,362 | 348 | - | 1,823 | 0.05% | 70 | 42.1% | 1.95 | 279 | 15.3% | - | |
| | 0.15 to < 0.25 | 1,163 | 5 | 10% | 1,168 | 0.23% | 14 | 23.0% | 1.01 | 258 | 22.1% | 1 | |
| | 0.25 to < 0.50 | 34 | 342 | 95% | 426 | 0.36% | 13 | 11.4% | 2.04 | 63 | 14.7% | - | |
| | 0.50 to < 0.75 | 3 | 13 | 100% | 16 | 0.56% | 2 | 48.3% | 1.00 | 9 | 59.4% | - | |
| | 0.75 to < 2.50 | 14 | 8 | 100% | 21 | 0.86% | 11 | 46.7% | 1.00 | 16 | 77.7% | - | |
| | 2.50 to < 10.00 10.00 to < 100.00 | _ | - | - | - | 3.16% | 3 | 39.5% | 1.00 | - | 119.2% | _ | |
| | 10.00 to < 100.00 100.00 (Default) | _ | - | - | - | - | - | _ | _ | - | _ | _ | |
| | Sub-total | 2,576 | 716 | 48% | 3,454 | 0.16% | 113 | 31.9% | 1.64 | 625 | 18.1% | 1 | 1 |
| T-4-1 (-1146-1) \ | | | | | | | | | | | | | |
| Total (all portfolio) | | 127,925 | 52,974 | 67% | 174,900 | 0.87% | 2,704,755 | 29.4% | 2.40 | 43,225 | 24.7% | 556 | 690 |

⁽¹⁾ Prescribed PD bands based on BIS document on Revised Pillar 3 disclosure requirements issued in January 2015.

⁽²⁾ Represents the exposure value without taking into account value adjustments and provisions, conversion factors and the effect of credit risk mitigation techniques.

⁽³⁾ Represents the EAD post-credit conversion factor (CCF) for off-balance sheet exposure to total off-balance sheet exposure pre CCF.

⁽⁴⁾ Represents the obligor grade PD weighted by EAD.

⁽⁵⁾ Represents the number of individual borrowers.

⁽⁶⁾ Represents the obligor grade LGD (net of any CRM effect) weighted by EAD.

⁽⁷⁾ Represents the obligor maturity in years weighted by EAD. This parameter needs to be filled in only when it is used for the RWA calculation.

⁽⁸⁾ Risk weighted assets before applying the 1.06 scaling factor.

⁽⁹⁾ Total risk-weighted assets to EAD post-CRM.

⁽¹⁰⁾ The expected losses (EL) as calculated according to paragraphs 375 - 379 of the Basel framework.

CR6 – IRB - Credit Risk Exposures by Portfolio and PD Range (continued)

| | | | | | | | Q4 2018 | | _ | | | | |
|----------------------|-------------------------|----------------|------------------------|----------------------------|--------------|---------------------------|-------------------------|----------------------------|-------------------------|--------------------|----------------------------|--------------------|----------------|
| | | a | b | С | d | e | f | g | h | i | j | k | l |
| | | Original on- | Off-balance | | | | | | | | | | |
| | PD scale ⁽¹⁾ | | sheet exposures | A CCF(3) | EAD post CRM | A DD(4) | Number of | A I CD(6) | Average | D)4/4(8) | DIA(A t- (9) | EL ⁽¹⁰⁾ | Allowances for |
| | | gross exposure | pre CCF ⁽²⁾ | Average CCF ⁽³⁾ | and post-CCF | Average PD ⁽⁴⁾ | obligors ⁽⁵⁾ | Average LGD ⁽⁶⁾ | maturity ⁽⁷⁾ | RWA ⁽⁸⁾ | RWA density ⁽⁹⁾ | EL | credit losses |
| 1 | 0.00 to < 0.15 | 781 | _ | - | 781 | 0.08% | 51,552 | 6.8% | | 10 | 1.3% | _ | |
| | 0.15 to < 0.25 | 368 | _ | - | 368 | 0.20% | 19,669 | 6.9% | | 10 | 2.8% | - | |
| | 0.25 to < 0.50 | 505 | - | - | 505 | 0.36% | 22,937 | 6.2% | | 19 | 3.7% | - | |
| | 0.50 to < 0.75 | 293 | - | - | 293 | 0.61% | 10,021 | 5.3% | | 14 | 4.7% | - | |
| | 0.75 to < 2.50 | 455 | - | - | 455 | 1.34% | 16,044 | 4.0% | | 26 | 5.8% | - | |
| | 2.50 to < 10.00 | 157 | - | - | 157 | 4.58% | 4,588 | 3.4% | | 16 | 10.3% | _ | |
| | 10.00 to < 100.00 | 73 | - | - | 73 | 29.33% | 1,618 | 3.0% | | 12 | 16.3% | 1 | |
| | 100.00 (Default) | 45 | - | _ | 45 | 100.00% | 741 | 2.8% | | 4 | 7.9% | 2 | |
| | Sub-total | 2,677 | - | - | 2,677 | 3.17% | 127,170 | 5.7% | | 111 | 4.2% | 3 | 7 |
| | 0.00 to < 0.15 | 22,074 | 13,509 | 50% | 28,788 | 0.07% | 186,609 | 23.0% | | 1,148 | 4.0% | 5 | |
| | 0.15 to < 0.25 | 6,131 | 909 | 68% | 6,749 | 0.19% | 30,702 | 24.5% | | 653 | 9.7% | 3 | |
| uninsured | 0.25 to < 0.50 | 5,675 | 850 | 70% | 6,274 | 0.35% | 26,260 | 24.6% | | 908 | 14.5% | 5 | |
| | 0.50 to < 0.75 | 2,226 | 201 | 72% | 2,371 | 0.61% | 9,714 | 25.0% | | 531 | 22.4% | 4 | |
| | 0.75 to < 2.50 | 2,281 | 220 | 71% | 2,436 | 1.27% | 11,040 | 24.6% | | 864 | 35.4% | 8 | |
| | 2.50 to < 10.00 | 680 | 42 | 76% | 712 | 4.54% | 3,891 | 23.8% | | 513 | 71.9% | 8 | |
| | 10.00 to < 100.00 | 195 | 2 | 111% | 197 | 23.95% | 1,355 | 25.0% | | 266 | 135.0% | 11 | |
| | 100.00 (Default) | 90 | 2 | 138% | 92 | 100.00% | 655 | 22.6% | | 150 | 162.8% | 10 | |
| | Sub-total | 39,352 | 15,735 | 53% | 47,619 | 0.57% | 270,226 | 23.6% | | 5,033 | 10.6% | 54 | 32 |
| Qualifying revolving | 0.00 to < 0.15 | 768 | 5,966 | 43% | 3,332 | 0.05% | 895,632 | 81.5% | | 88 | 2.6% | 1 | |
| retail | 0.15 to < 0.25 | 208 | 413 | 55% | 435 | 0.20% | 117,492 | 83.7% | | 39 | 9.0% | 1 | |
| | 0.25 to < 0.50 | 350 | 495 | 58% | 636 | 0.36% | 148,785 | 83.6% | | 89 | 14.0% | 2 | |
| | 0.50 to < 0.75 | 241 | 184 | 64% | 359 | 0.63% | 71,453 | 79.5% | | 76 | 21.2% | 2 | |
| | 0.75 to < 2.50 | 701 | 282 | 67% | 889 | 1.45% | 236,145 | 84.1% | | 379 | 42.7% | 11 | |
| | 2.50 to < 10.00 | 455 | 62 | 99% | 516 | 4.47% | 234,061 | 86.5% | | 491 | 95.1% | 20 | |
| | 10.00 to < 100.00 | 83 | 4 | 84% | 86 | 24.58% | 32,158 | 85.7% | | 189 | 219.3% | 19 | |
| | 100.00 (Default) | 23 | _ | 2% | 23 | 100.00% | 3,898 | 69.2% | | 33 | 142.1% | 14 | |
| | Sub-total | 2,829 | 7,406 | 47% | 6,276 | 1.39% | 1,739,624 | 82.6% | | 1,384 | 22.0% | 70 | 188 |
| Other retail | 0.00 to < 0.15 | 2,153 | 1,871 | 44% | 2,986 | 0.07% | 109,622 | 48.4% | | 252 | 8.4% | 1 | |
| | 0.15 to < 0.25 | 807 | 198 | 70% | 946 | 0.20% | 43,211 | 52.7% | | 204 | 21.6% | 1 | |
| | 0.25 to < 0.50 | 1,358 | 241 | 72% | 1,531 | 0.37% | 75,981 | 56.9% | | 517 | 33.8% | 3 | |
| | 0.50 to < 0.75 | 1,075 | 197 | 81% | 1,235 | 0.63% | 53,529 | 58.2% | | 589 | 47.7% | 5 | |
| | 0.75 to < 2.50 | 2,929 | 327 | 76% | 3,172 | 1.38% | 206,716 | 63.4% | | 2,263 | 71.3% | 28 | |
| | 2.50 to < 10.00 | 958 | 67 | 74% | 1,008 | 4.33% | 70,018 | 65.3% | | 954 | 94.6% | 29 | |
| | 10.00 to < 100.00 | 213 | 4 | 65% | 216 | 20.39% | 13,355 | 66.5% | | 309 | 143.2% | 29 | |
| | 100.00 (Default) | 105 | 2 | 56% | 106 | 100.00% | 7,063 | 58.0% | | 197 | 186.4% | 49 | |
| | Sub-total | 9,598 | 2,907 | 55% | 11,200 | 2.27% | 579,495 | 57.2% | | 5,285 | 47.2% | 145 | 137 |

⁽¹⁾ Prescribed PD bands based on BIS document on Revised Pillar 3 disclosure requirements issued in January 2015.

⁽²⁾ Represents the exposure value without taking into account value adjustments and provisions, conversion factors and the effect of credit risk mitigation techniques.

⁽³⁾ Represents the EAD post-credit conversion factor (CCF) for off-balance sheet exposure to total off-balance sheet exposure pre CCF.

⁽⁴⁾ Represents the obligor grade PD weighted by EAD.

⁽⁵⁾ Represents the number of retail accounts.

⁽⁶⁾ Represents the obligor grade LGD (net of any CRM effect) weighted by EAD.

⁽⁷⁾ Represents the obligor maturity in years weighted by EAD. This parameter needs to be filled in only when it is used for the RWA calculation.

⁽⁸⁾ Risk weighted assets before applying the 1.06 scaling factor.

⁽⁹⁾ Total risk-weighted assets to EAD post-CRM.

⁽¹⁰⁾ The expected losses (EL) as calculated according to paragraphs 375 - 379 of the Basel framework.

CR6 – IRB - Credit Risk Exposures by Portfolio and PD Range (continued)

| | | _ | - | | | _ | Q4 2018 | | _ | | _ | _ | |
|------------------------|-------------------------|-------------------------------------------------|-----------------|----------------------------|------------------------------|---------|-----------------------------------|----------------------------|------------------------------------|--------------------|----------------------------|--------------------|---------------|
| | | а | b | С | d | e | f | g | h | i | j | k | l |
| | PD scale ⁽¹⁾ | Original on- balance sheet gross exposure | sheet exposures | Average CCF ⁽³⁾ | EAD post CRM and post-CCF | | Number of obligors ⁽⁵⁾ | Average LGD ⁽⁶⁾ | Average maturity ⁽⁷⁾ | RWA ⁽⁸⁾ | RWA density ⁽⁹⁾ | EL ⁽¹⁰⁾ | Allowances fo |
| Corporate | 0.00 to < 0.15 | 1,813 | 2,117 | 81% | 4,153 | 0.09% | 749 | 48.3% | 2.04 | 967 | 23.3% | 2 | |
| | 0.15 to < 0.25 | 12,930 | 8,423 | 87% | 23,291 | 0.20% | 3,664 | 36.7% | 2.84 | 7,426 | 31.9% | 17 | |
| | 0.25 to < 0.50 | 8,489 | 4,884 | 76% | 14,395 | 0.36% | 2,234 | 36.0% | 2.39 | 5,651 | 39.3% | 19 | |
| | 0.50 to < 0.75 | 6,108 | 1,698 | 86% | 8,309 | 0.56% | 2,493 | 33.9% | 2.08 | 3,525 | 42.4% | 16 | |
| | 0.75 to < 2.50 | 12,836 | 2,358 | 87% | 16,258 | 1.14% | 6,221 | 34.9% | 2.00 | 9,377 | 57.7% | 64 | |
| | 2.50 to < 10.00 | 2,021 | 291 | 67% | 2,467 | 4.80% | 1,163 | 28.7% | 1.95 | 1,933 | 78.4% | 36 | |
| | 10.00 to < 100.00 | 194 | 10 | 97% | 205 | 16.72% | 69 | 32.9% | 1.12 | 281 | 137.3% | 11 | |
| | 100.00 (Default) | 356 | 5 | 70% | 367 | 100.00% | 202 | 21.1% | 1.24 | 221 | 60.4% | 104 | |
| | Sub-total | 44,747 | 19,786 | 83% | 69,445 | 1.23% | 16,795 | 36.1% | 2.36 | 29,381 | 42.3% | 269 | 277 |
| Sovereign | 0.00 to < 0.15 | 26,125 | 4,487 | 97% | 31,607 | 0.01% | 583 | 9.2% | 2.38 | 502 | 1.6% | - | |
| | 0.15 to < 0.25 | _ | - | _ | _ | _ | _ | _ | _ | _ | - | - | |
| | 0.25 to < 0.50 | _ | - | _ | _ | _ | _ | _ | _ | _ | - | - | |
| | 0.50 to < 0.75 | - | - | - | _ | - | - | - | - | _ | - | - | |
| | 0.75 to < 2.50 | - | - | - | - | - | - | - | - | - | - | - | |
| | 2.50 to < 10.00 | 74 | 2 | 62% | 77 | 5.07% | 1 | 14.1% | 1.00 | 32 | 41.5% | 1 | |
| | 10.00 to < 100.00 | - | - | - | _ | - | _ | _ | - | _ | - | - | |
| | 100.00 (Default) | - | - | _ | _ | _ | - | - | _ | _ | _ | _ | |
| | Sub-total | 26,199 | 4,489 | 97% | 31,684 | 0.02% | 584 | 9.2% | 2.37 | 534 | 1.7% | 1 | 2 |
| Financial institutions | 0.00 to < 0.15 | 2,146 | 301 | - | 2,585 | 0.06% | 72 | 42.4% | 1.48 | 397 | 15.4% | 1 | |
| | 0.15 to < 0.25 | 1,247 | 7 | - | 1,254 | 0.23% | 15 | 13.0% | 1.02 | 148 | 11.8% | - | |
| | 0.25 to < 0.50 | 238 | 130 | 87% | 368 | 0.36% | 16 | 33.7% | 1.19 | 153 | 41.6% | - | |
| | 0.50 to < 0.75 | 76 | 12 | 100% | 88 | 0.53% | 3 | 45.4% | 1.00 | 55 | 61.7% | - | |
| | 0.75 to < 2.50 | 86 | 1 | 100% | 87 | 1.31% | 17 | 49.3% | 1.00 | 89 | 102.7% | 1 | |
| | 2.50 to < 10.00 | 1 | - | - | 1 | 3.15% | 4 | 47.3% | 1.00 | 1 | 142.1% | - | |
| | 10.00 to < 100.00 | - | - | - | - | - | - | - | - | - | - | - | |
| | 100.00 (Default) | _ | - | - | - | - | - | _ | - | - | - | - | |
| | Sub-total | 3,794 | 451 | 28% | 4,383 | 0.17% | 127 | 33.4% | 1.30 | 843 | 19.2% | 2 | 2 |
| | | | | | | | | | | | | | |
| Total (all portfolio) | | 129,196 | 50,774 | 67% | 173,284 | 0.90% | 2,734,021 | 30.3% | 2.30 | 42,571 | 24.6% | 544 | 645 |

⁽¹⁾ Prescribed PD bands based on BIS document on Revised Pillar 3 disclosure requirements issued in January 2015.

⁽²⁾ Represents the exposure value without taking into account value adjustments and provisions, conversion factors and the effect of credit risk mitigation techniques.

⁽³⁾ Represents the EAD post-credit conversion factor (CCF) for off-balance sheet exposure to total off-balance sheet exposure pre CCF.

⁽⁴⁾ Represents the obligor grade PD weighted by EAD.

⁽⁵⁾ Represents the number of individual borrowers.

⁽⁶⁾ Represents the obligor grade LGD (net of any CRM effect) weighted by EAD.

⁽⁷⁾ Represents the obligor maturity in years weighted by EAD. This parameter needs to be filled in only when it is used for the RWA calculation.

⁽⁸⁾ Risk weighted assets before applying the 1.06 scaling factor.

⁽⁹⁾ Total risk-weighted assets to EAD post-CRM.

⁽¹⁰⁾ The expected losses (EL) as calculated according to paragraphs 375 - 379 of the Basel framework.

CR8 – RWA Flow Statements of Credit Risk Exposures Under IRB

(unaudited) (millions of Canadian dollars)

The following table presents a flow statement explaining variations in the credit risk-weighted assets (RWA) determined under an IRB approach.

| | | Q2 2019 | Q1 2019 | Q4 2018 |
|---|-------------------------------------------|---------|---------|---------|
| | | a | a | a |
| | | RWA | RWA | RWA |
| 1 | RWA at beginning | 47,097 | 46,640 | 44,971 |
| | Book size ⁽¹⁾ | 93 | 721 | 1,479 |
| 3 | Book quality ⁽²⁾ | 49 | (254) | 195 |
| 4 | Model updates ⁽³⁾ | 30 | - | (72) |
| 5 | Methodology and policy ⁽⁴⁾ | - | - | - |
| 6 | Acquisitions and disposals ⁽⁵⁾ | - | - | - |
| 7 | Foreign exchange movements ⁽⁶⁾ | 126 | (10) | 67 |
| 8 | Other ⁽⁷⁾ | _ | - | _ |
| 9 | RWA at end | 47,395 | 47,097 | 46,640 |

⁽¹⁾ Organic changes in book size and composition (including origination of new businesses and maturing loans) excluding acquisitions and disposal of entities.

⁽²⁾ Changes in the assessed quality of the bank's assets due to changes in borrower risk, such as rating grade migration, parameter recalibration, or similar effects.

⁽³⁾ Changes due to model implementation, changes in model scope, or any changes intended to address model weaknesses.

⁽⁴⁾ Changes due to methodological changes in calculations driven by regulatory policy changes, including both revisions to existing regulations and new regulations.

⁽⁵⁾ Changes in book size due to acquisitions and/or divestitures.

⁽⁶⁾ Changes driven by market movements such as foreign exchange movements.

⁽⁷⁾ This category captures changes that cannot be attributed to any other category.

AIRB Credit Risk Exposure - Back-Testing(1)

| | | | | | | 20 | 19 | | | | | |
|-------------------------------------------------------------|-----------|----------------|------------------------|------------------------|------------------------|------------------------|-----------|----------|------------------------|------------------------|------------------------|------------------------|
| | | | Q2 | | | | | | Q1 | | | |
| | Average | | Average | | | | Average | | Average | | | |
| | estimated | Actual default | estimated | Actual | | Actual | estimated | | estimated | Actual | Estimated | Actual |
| | (PD %) | rate (%) | (LGD %) ⁽²⁾ | (LGD %) ⁽³⁾ | (EAD %) ⁽⁴⁾ | (EAD %) ⁽⁴⁾ | (PD %) | rate (%) | (LGD %) ⁽²⁾ | (LGD %) ⁽³⁾ | (EAD %) ⁽⁴⁾ | (EAD %) ⁽⁴⁾ |
| Retail portfolio ⁽⁵⁾ | | | | | | | | | | | | |
| Insured residential mortgages ⁽⁶⁾ | 0.80% | 0.66% | 2.64% | n.a. | n.a. | n.a. | 0.84% | 0.65% | 2.64% | n.a. | n.a. | n.a. |
| Uninsured residential mortgages incl. HELOCs ⁽⁷⁾ | 0.34% | 0.31% | 21.51% | 8.16% | 95.95% | 78.17% | 0.35% | 0.34% | 21.43% | 9.04% | 92.60% | 80.58% |
| Qualifying revolving retail | 1.34% | 1.20% | 79.88% | 73.65% | 100.40% | 102.32% | 1.35% | 1.18% | 75.00% | 75.80% | 100.37% | 102.00% |
| Other retail | 1.63% | 1.07% | 66.80% | 59.42% | 94.94% | 88.39% | 1.59% | 1.10% | 67.01% | 62.45% | 95.78% | 87.90% |
| Non-Retail Portfolio ⁽⁸⁾ | | | | | | | | | | | | |
| Corporate | 1.01% | 0.37% | 34.65% | 30.41% | 84.18% | 85.45% | 1.01% | 0.40% | 36.57% | 29.40% | 79.91% | 76.06% |
| Sovereign ⁽⁹⁾ | 0.07% | 0.00% | 11.54% | n.a. | 88.30% | n.a. | 0.04% | 0.00% | 11.54% | n.a. | 88.30% | n.a. |
| Financial Institutions ⁽⁹⁾ | 0.35% | 0.00% | 40.75% | n.a. | 100.00% | n.a. | 0.35% | 0.00% | 40.75% | n.a. | 100.00% | n.a. |

| | | | | | | 20 | 18 | | | | | |
|-------------------------------------------------------------|---------------------|-------|-------------------------------------|----------------------------------|-------------------------------------|----------------------------------|---------------------|----------------------------|-------------------------------------|----------------------------------|---------|----------------------------------|
| | | | Q4 | | | | | | Q3 | | | |
| | Average | | Average | | | | Average | | Average | | | |
| | estimated (PD %) | | estimated (LGD %) ⁽²⁾ | Actual (LGD %) ⁽³⁾ | Estimated (EAD %) ⁽⁴⁾ | Actual (EAD %) ⁽⁴⁾ | estimated (PD %) | Actual default rate (%) | estimated (LGD %) ⁽²⁾ | Actual (LGD %) ⁽³⁾ | | Actual (EAD %) ⁽⁴⁾ |
| Retail portfolio ⁽⁵⁾ | | | | | | | | | | | | |
| Insured residential mortgages ⁽⁶⁾ | 0.85% | 0.64% | 2.64% | n.a. | n.a. | n.a. | 1.06% | 0.62% | 2.64% | n.a. | n.a. | n.a. |
| Uninsured residential mortgages incl. HELOCs ⁽⁷⁾ | 0.36% | 0.32% | 21.57% | 9.43% | 93.02% | 84.32% | 0.37% | 0.26% | 22.15% | 11.08% | 91.49% | 84.43% |
| Qualifying revolving retail | 1.36% | 1.15% | 74.64% | 75.40% | 100.18% | 101.60% | 1.26% | 1.16% | 77.45% | 78.68% | 99.24% | 100.62% |
| Other retail | 1.63% | 1.05% | 67.53% | 59.30% | 95.65% | 88.31% | 1.68% | 1.30% | 66.64% | 58.90% | 95.59% | 88.62% |
| Non-Retail Portfolio ⁽⁸⁾ | | | | | | | | | | | | |
| Corporate | 1.01% | 0.46% | 35.57% | 32.01% | 79.10% | 71.09% | 1.27% | 0.50% | 37.11% | 28.10% | 77.64% | 68.47% |
| Sovereign ⁽⁹⁾ | 0.03% | 0.00% | 11.54% | n.a. | 88.30% | n.a. | 0.06% | 0.00% | 11.54% | n.a. | 88.30% | n.a. |
| Financial Institutions ⁽⁹⁾ | 0.41% | 0.00% | 40.75% | n.a. | 100.00% | n.a. | 0.59% | 0.00% | 40.75% | n.a. | 100.00% | n.a. |

⁽¹⁾ Estimated PD and actual default rates are consistent with what is presented in table CR9 (presented annually). Actual and estimated LGD and EAD parameters are reported on a one-month lag. For example, for Q2 2019, estimated percentages are as of March 31st, 2018 and actual percentages reflect experience in the following 12 months.

⁽²⁾ Estimated LGD reflects loss estimates under a downturn economic scenario and is based on defaulted accounts.

⁽³⁾ Actual LGD includes indirect costs and discount rate and is based on defaulted accounts on which recovery process is completed.

⁽⁴⁾ Estimated and actual EAD are computed for revolving products only and are based on defaulted accounts.

⁽⁵⁾ Retail PD and EAD are based on account weighted average whilst retail LGD is based on exposure weighted average.

⁽⁶⁾ Actual LGD for insured residential mortgages is not applicable to reflect the credit risk mitigation from government backed entities.

⁽⁷⁾ Actual and estimated EAD for residential mortgage is computed only for HELOCs since the conventional residential mortgages are non-revolving.

⁽⁸⁾ Wholesale and Sovereign's PD is based on borrower weighted average whilst the LGD and EAD are based on facility weighted average.

⁽⁹⁾ Actual LGD for the Financial Institutions and Sovereign are not applicable because no defaulted facilities recovery were completed during the period. Actual EAD are not applicable because no default was observed during the period.

CR10 - IRB - Specialised Lending and Equities Under the Simple Risk-Weight Method

| | Q2 2019 | | | | | Q1 2019 | | | | | | |
|------------------------------------------|--------------|--------------|------|-----------------|-----|--------------|--------------|------|-----------------|-----|--|--|
| | On-balance | Off-balance | | | | On-balance | Off-balance | | | | | |
| | sheet amount | sheet amount | RW | Exposure amount | RWA | sheet amount | sheet amount | RW | Exposure amount | RWA | | |
| Equities under the materiality exemption | 839 | 102 | 100% | 890 | 943 | 816 | 110 | 100% | 871 | 924 | | |

| | | - | Q4 2018 | _ | |
|------------------------------------------|--------------|--------------|---------|-----------------|-----|
| | On-balance | Off-balance | | | |
| | sheet amount | sheet amount | RW | Exposure amount | RWA |
| Equities under the materiality exemption | 823 | 102 | 100% | 874 | 926 |

CCR1 – Analysis of Counterparty Credit Risk (CCR) Exposure by Approach⁽¹⁾

(unaudited) (millions of Canadian dollars)

The following tables provide a comprehensive view of the methods used to calculate counterparty credit risk regulatory requirements and the main parameters used within each method.

| | | | | Q2 2 | 019 | | |
|---|--------------------------------------------------------------|------------------|-----------------|---------------------|----------------------|--------------|-------|
| | | a | b | С | d | e | f |
| | | | | | Alpha used for | | |
| | | | Potential | | computing regulatory | | |
| | | Replacement cost | future exposure | EEPE ⁽²⁾ | EAD | EAD post-CRM | RWA |
| 1 | SA-CCR (for derivatives) | 2,193 | 7,184 | | 1.4 | 13,128 | 4,087 |
| 2 | Internal Model Method (for derivatives and SFTs) | | | _ | - | _ | _ |
| 3 | Simple Approach for credit risk mitigation (for SFTs) | | | | | _ | _ |
| 4 | Comprehensive Approach for credit risk mitigation (for SFTs) | | | | | _ | _ |
| 5 | VaR for SFTs | | | | | 7,142 | 966 |
| 6 | Total | | | | | | 5,053 |

| | | | | Q1 2 | 019 | | |
|---|--------------------------------------------------------------|------------------|-----------------|---------------------|----------------------|--------------|-------|
| | | a | b | С | d | e | f |
| | | | | | Alpha used for | | |
| | | | Potential | | computing regulatory | | |
| | | Replacement cost | future exposure | EEPE ⁽²⁾ | EAD | EAD post-CRM | RWA |
| 1 | SA-CCR (for derivatives) | 1,811 | 6,046 | | 1.4 | 10,999 | 3,405 |
| 2 | Internal Model Method (for derivatives and SFTs) | | | - | _ | - | _ |
| 3 | Simple Approach for credit risk mitigation (for SFTs) | | | | | - | _ |
| 4 | Comprehensive Approach for credit risk mitigation (for SFTs) | | | | | - | _ |
| 5 | VaR for SFTs | | | | | 6,670 | 762 |
| 6 | Total | | | | | | 4,167 |

| | | | - | Q4 2 | 018 | - | |
|---|--------------------------------------------------------------|------------------|-----------|---------------------|-------------------------------------|--------------|-------|
| | | a | b | С | d | е | f |
| | | Dl. | Potential | | Alpha used for computing regulatory | | DWA |
| | | Replacement cost | | EEPE ⁽²⁾ | EAD | EAD post-CRM | RWA |
| 1 | SA-CCR (for derivatives) ⁽³⁾ | 5,132 | 4,887 | | _ | 7,045 | 2,245 |
| 2 | Internal Model Method (for derivatives and SFTs) | | | - | _ | _ | _ |
| 3 | Simple Approach for credit risk mitigation (for SFTs) | | | | | _ | _ |
| 4 | Comprehensive Approach for credit risk mitigation (for SFTs) | | | | | _ | _ |
| 5 | VaR for SFTs | | | | | 6,313 | 601 |
| 6 | Total | | | | | | 2,846 |

⁽¹⁾ Excludes exposure and RWA for qualified central counterparties (QCCPs) and credit valuation adjustment (CVA).

⁽²⁾ EEPE: Effective Expected Positive Exposure.

⁽³⁾ Standardised approach (SA-CCR) for measuring exposure at default for counterparty credit risk is applicable starting Q1-2019. In Q4-2018, NBC reported in row 1 information corresponding to the Current Exposures Method.

CCR2 - Credit Valuation Adjustment (CVA) Capital Charge

(unaudited) (millions of Canadian dollars)

The following table provides the CVA regulatory calculations (with a breakdown by standardised and advanced approaches).

| | | Q2 2 | 019 | Q1 : | 2019 | Q4 2018 | | |
|---|---------------------------------------------------------------|--------------|-------|--------------|-------|--------------|-----|--|
| | | a | b | a | b | a | b | |
| | | EAD post-CRM | RWA | EAD post-CRM | RWA | EAD post-CRM | RWA | |
| | Total portfolios subject to the Advanced CVA capital charge | | | | | | | |
| 1 | (i) VaR component (including the 3 x multiplier) | | - | | - | | - | |
| 2 | (ii) Stressed VaR component (including the 3 x multiplier) | | - | | - | | - | |
| 3 | All portfolios subject to the Standardised CVA capital charge | 8,340 | 1,151 | 6,845 | 1,020 | 6,018 | 405 | |
| 4 | Total subject to the CVA capital charge | 8,340 | 1,151 | 6,845 | 1,020 | 6,018 | 405 | |

CCR3 – Standardised Approach - CCR Exposures by Regulatory Portfolio and Risk Weights

(unaudited) (millions of Canadian dollars)

The following tables provide a breakdown of counterparty credit risk exposures calculated according to the standardised approach: by portfolio (type of counterparties) and by risk weight (riskiness attributed according to standardised approach).

| | | | | | Q2 2019 | | | | |
|------------------------------------------------------|-----------|-------|-----|-----|---------|------|------|--------|--------------------------|
| | a | b | С | d | e | f | g | h | i |
| Risk v Regulatory portfolio | veight 0% | 6 10% | 20% | 50% | 75% | 100% | 150% | Others | Total credit exposure |
| Sovereigns | - | | - | - | - | - | - | - | - - |
| Non-central government public sector entities (PSEs) | _ | _ | - | _ | _ | - | - | _ | - |
| Multilateral development banks (MDBs) | 18 | - | - | _ | _ | - | - | - | 18 |
| Financial institutions | - | - | - | _ | _ | - | - | - | - |
| Securities firms | - | - | - | - | - | - | - | - | - |
| Corporates | - | - | - | - | - | 436 | - | - | 436 |
| Regulatory retail portfolios | - | - | - | - | - | - | - | - | - |
| Other assets ⁽¹⁾ | - | - | - | _ | _ | - | - | - | - |
| Total | 18 | - | _ | _ | _ | 436 | _ | - | 454 |

| | | | | | Q1 2019 | | | | |
|------------------------------------------------------|----|-----|-----|-----|---------|------|------|--------|--------------------------|
| | a | b | С | d | e | f | g | h | i |
| Risk weight Regulatory Portfolio | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | Total credit exposure |
| Sovereigns | - | - | | - | - | - | - | - | - |
| Non-central government public sector entities (PSEs) | _ | - | - | - | - | - | _ | - | - |
| Multilateral development banks (MDBs) | 13 | _ | - | - | _ | _ | _ | _ | 13 |
| Financial institutions | - | - | - | - | - | - | - | - | _ |
| Securities firms | - | - | - | - | - | - | - | - | _ |
| Corporates | - | - | - | - | - | 349 | - | - | 349 |
| Regulatory retail portfolios | | - | - | - | - | - | - | - | - |
| Other assets ⁽¹⁾ | - | - | - | - | - | - | - | - | - |
| Total | 13 | - | - | - | - | 349 | 1 | - | 362 |

| | | | | | Q4 2018 | | | | |
|------------------------------------------------------|----|-----|-----|-----|---------|------|------|--------|--------------------------|
| | a | b | С | d | e | f | g | h | i |
| Risk weight | 0% | 10% | 20% | 50% | 75% | 100% | 150% | Others | Total credit exposure |
| Sovereigns | - | - | - | _ | - | - | - | - | - |
| Non-central government public sector entities (PSEs) | - | - | - | - | _ | - | - | - | _ |
| Multilateral development banks (MDBs) | 15 | - | - | - | - | - | _ | _ | 15 |
| Financial institutions | - | _ | _ | - | _ | - | - | _ | - |
| Securities firms | - | _ | _ | - | _ | - | _ | _ | _ |
| Corporates | - | - | - | - | - | 248 | - | _ | 248 |
| Regulatory retail portfolios | - | _ | _ | - | _ | - | _ | _ | _ |
| Other assets ⁽¹⁾ | - | - | - | - | - | - | - | - | - |
| Total | 15 | - | - | _ | _ | 248 | _ | - | 263 |

⁽¹⁾ Excluding the exposures to CCPs, which are reported in CCR8.

CCR4 – IRB - CCR Exposures by Portfolio and PD Scale

(unaudited) (millions of Canadian dollars)

The following tables provide all relevant parameters used for the calculation of counterparty credit risk capital requirements for IRB models.

| | | | | Q2 2 | 2019 | | | |
|---------------------------|-------------------------|--------------|---------------------------|-----------------------------------|----------------------------|---------------------------------|-----|----------------------------|
| | | a | b | С | d | e | f | g |
| | PD scale ⁽¹⁾ | EAD post-CRM | average PD ⁽²⁾ | Number of obligors ⁽³⁾ | Average LGD ⁽⁴⁾ | Average maturity ⁽⁵⁾ | RWA | RWA density ⁽⁶⁾ |
| Corporate | 0.00 to < 0.15 | 824 | 0.06% | 417 | 42.9% | 0.05 | 75 | 9.1% |
| | 0.15 to < 0.25 | 431 | 0.17% | 226 | 58.2% | 0.02 | 127 | 29.5% |
| | 0.25 to < 0.50 | 18 | 0.36% | 60 | 39.6% | - | 6 | 33.3% |
| | 0.50 to < 0.75 | 2 | 0.56% | 25 | 39.5% | - | 1 | 50.0% |
| | 0.75 to < 2.50 | 125 | 0.86% | 98 | 44.6% | 0.01 | 53 | 42.4% |
| | 2.50 to < 10.00 | _ | _ | _ | _ | - | _ | - |
| | 10.00 to < 100.00 | _ | _ | _ | _ | - | _ | _ |
| | 100.00 (Default) | _ | _ | _ | _ | - | _ | - |
| | Sub-total | 1,400 | 0.17% | 826 | 47.7% | 0.04 | 262 | 18.7% |
| Sovereign | 0.00 to < 0.15 | 3,339 | 0.04% | 95 | 11.1% | 0.36 | 46 | 1.4% |
| _ | 0.15 to < 0.25 | 30 | 0.21% | 1 | 11.6% | - | 2 | 6.7% |
| | 0.25 to < 0.50 | - | _ | _ | _ | - | - | - |
| | 0.50 to < 0.75 | - | - | - | - | - | - | - |
| | 0.75 to < 2.50 | - | - | - | - | - | - | - |
| | 2.50 to < 10.00 | _ | _ | _ | _ | - | _ | - |
| | 10.00 to < 100.00 | - | - | - | - | - | - | - |
| | 100.00 (Default) | - | - | - | - | - | - | - |
| | Sub-total | 3,369 | 0.04% | 96 | 11.1% | 0.36 | 48 | 1.4% |
| Financial institutions | 0.00 to < 0.15 | 2,130 | 0.06% | 15 | 50.5% | 0.48 | 242 | 11.4% |
| | 0.15 to < 0.25 | 372 | 0.18% | 16 | 50.8% | 0.12 | 120 | 32.3% |
| | 0.25 to < 0.50 | 147 | 0.36% | 11 | 50.4% | 0.21 | 75 | 51.0% |
| | 0.50 to < 0.75 | 172 | 0.56% | 11 | 50.0% | 0.06 | 108 | 62.8% |
| | 0.75 to < 2.50 | 73 | 1.21% | 23 | 48.2% | - | 54 | 74.0% |
| | 2.50 to < 10.00 | _ | _ | _ | _ | _ | _ | _ |
| | 10.00 to < 100.00 | _ | _ | _ | _ | _ | _ | _ |
| | 100.00 (Default) | - | _ | _ | _ | _ | _ | _ |
| | Sub-total | 2,894 | 0.15% | 76 | 50.5% | 0.38 | 599 | 20.7% |
| | · | | | | | | | |
| Total (sum of portfolios) | | 7,663 | 0.11% | 998 | 33.0% | 0.59 | 909 | 11.8% |

⁽¹⁾ Prescribed PD bands based on BIS document on Revised Pillar 3 disclosure requirements issued in January 2015.

⁽²⁾ Represents the obligor grade PD weighted by EAD.

⁽³⁾ Represents the number of individual borrowers.

⁽⁴⁾ Represents the obligor grade LGD (net of any CRM effect) weighted by EAD.

⁽⁵⁾ Represents the obligor maturity in years weighted by EAD. This parameter needs to be filled in only when it is used for the RWA calculation.

⁽⁶⁾ Total risk-weighted assets to EAD post-CRM.

CCR4 – IRB - CCR Exposures by Portfolio and PD Scale (continued)

| | | | | Q4 2 | 018 | | | |
|---------------------------|-------------------------|--------------|---------------|-----------------------------------|----------------------------|---------------------------------|-----|-------------|
| | | a | b | С | d | e | f | g |
| | PD scale ⁽¹⁾ | EAD post-CRM | average PD(2) | Number of obligors ⁽³⁾ | Average LGD ⁽⁴⁾ | Average maturity ⁽⁵⁾ | RWA | RWA density |
| Corporate | 0.00 to < 0.15 | 595 | 0.06% | 392 | 42.6% | 0.06 | 52 | 8.79 |
| | 0.15 to < 0.25 | 202 | 0.18% | 250 | 46.6% | 0.14 | 51 | 25.29 |
| | 0.25 to < 0.50 | 24 | 0.36% | 70 | 40.7% | 0.01 | 8 | 33.3% |
| | 0.50 to < 0.75 | 9 | 0.56% | 30 | 39.1% | - | 4 | 44.49 |
| | 0.75 to < 2.50 | 43 | 0.86% | 72 | 43.5% | 0.27 | 23 | 53.5% |
| | 2.50 to < 10.00 | - | - | - | - | - | - | - |
| | 10.00 to < 100.00 | - | - | _ | - | - | - | - |
| | 100.00 (Default) | - | - | - | - | - | - | - |
| | Sub-total | 873 | 0.14% | 814 | 43.5% | 0.09 | 138 | 15.2% |
| Sovereign | 0.00 to < 0.15 | 3,509 | 0.04% | 94 | 1.2% | 0.12 | 46 | 1.3% |
| | 0.15 to < 0.25 | - | 0.21% | 1 | 11.6% | - | - | - |
| | 0.25 to < 0.50 | - | - | - | - | - | - | - |
| | 0.50 to < 0.75 | - | - | - | - | - | - | - |
| | 0.75 to < 2.50 | - | - | - | - | - | - | - |
| | 2.50 to < 10.00 | - | - | - | - | - | - | - |
| | 10.00 to < 100.00 | - | - | - | - | - | - | - |
| | 100.00 (Default) | - | - | _ | - | - | - | _ |
| | Sub-total | 3,509 | 0.04% | 95 | 11.2% | 0.12 | 46 | 1.3% |
| Financial institutions | 0.00 to < 0.15 | 1,832 | 0.06% | 18 | 47.3% | 0.51 | 192 | 10.5% |
| | 0.15 to < 0.25 | 206 | 0.17% | 16 | 50.7% | 0.13 | 63 | 30.6% |
| | 0.25 to < 0.50 | 75 | 0.36% | 10 | 50.4% | 0.36 | 40 | 53.3% |
| | 0.50 to < 0.75 | 48 | 0.56% | 12 | 50.7% | 0.13 | 29 | 60.49 |
| | 0.75 to < 2.50 | 40 | 1.14% | 19 | 50.1% | 0.01 | 33 | 82.5% |
| | 2.50 to < 10.00 | 3 | 3.09% | 3 | 46.1% | - | 3 | 100.0% |
| | 10.00 to < 100.00 | - | - | - | - | - | - | - |
| | 100.00 (Default) | - | - | - | - | - | - | - |
| | Sub-total | 2,204 | 0.11% | 78 | 47.9% | 0.45 | 360 | 16.3% |
| T () () () () | | 4 = 0.4 | | | | | | |
| Total (sum of portfolios) | | 6,586 | 0.08% | 987 | 28.0% | 0.70 | 544 | 8.29 |

⁽¹⁾ Prescribed PD bands based on BIS document on Revised Pillar 3 disclosure requirements issued in January 2015.

⁽²⁾ Represents the obligor grade PD weighted by EAD.

⁽³⁾ Represents the number of individual borrowers.

⁽⁴⁾ Represents the obligor grade LGD (net of any CRM effect) weighted by EAD.

⁽⁵⁾ Represents the obligor maturity in years weighted by EAD. This parameter needs to be filled in only when it is used for the RWA calculation.

⁽⁶⁾ Total risk-weighted assets to EAD post-CRM.

CCR5 – Composition of Collateral for CCR Exposure

(unaudited) (millions of Canadian dollars)

The following tables provide a breakdown of all types of collateral posted or received by banks to support or reduce the counterparty credit risk exposures related to derivative transactions or to SFTs, including transactions cleared through a CCP.

| | | | Q2 : | 2019 | | | | | Q1 : | 2019 | | |
|-----------------------------------------------|------------|---------------------------------------------|------------------|-----------------|------------|-----------------|--------------------------|--------------|-----------------|-----------------|---------------|-----------------|
| | a | b | С | d | e | f | а | b | С | d | e | f |
| | | Collateral u | sed in derivativ | ve transactions | Collater | al used in SFTs | | Collateral u | sed in derivati | ve transactions | Collatera | al used in SFTs |
| | Fair val | Fair value of collateral Fair value of post | | | | Fair value of | Fair value of collateral | | Fair | value of posted | Fair value of | Fair value of |
| | | received | | collateral | collateral | posted | | received | | collateral | collateral | posted |
| | Segregated | Unsegregated | Segregated | Unsegregated | received | collateral | Segregated | Unsegregated | Segregated | Unsegregated | received | collateral |
| Cash | - | 5,020 | _ | 660 | _ | _ | _ | 5,012 | _ | 1,308 | 4 | - |
| Securities issued or guaranteed by | | | | | | | | | | | | |
| Canadian government | 7 | 58 | _ | 956 | 2,936 | 1,276 | 2 | 47 | _ | 662 | 3,160 | 508 |
| Canadian provincial and municipal governments | - | 32 | _ | 51 | 2,966 | 1,660 | _ | 80 | _ | 136 | 3,395 | 5,017 |
| U.S. Treasury, other U.S. agencies and other | | | | | | | | | | | | |
| foreign governments | 64 | 63 | - | 7 | 100 | 719 | 63 | 59 | - | - | 548 | 3,409 |
| Other debt securities | - | 15 | - | _ | 82 | 396 | _ | 14 | - | - | 88 | 481 |
| Equity securities | _ | _ | - | _ | 11,443 | 16,481 | ı | _ | - | _ | 8,350 | 12,239 |
| Total | 71 | 5,188 | _ | 1,674 | 17,527 | 20,532 | 65 | 5,212 | _ | 2,106 | 15,545 | 21,654 |

| | | | Q4 2 | 2018 | | |
|-----------------------------------------------|------------|------------------------------|------------------------------|-----------------------------|-------------------------|------------|
| | a | b | С | d | e | f |
| | | Collateral u | ve transactions | Collater | al used in SFTs | |
| | Fair val | ue of collateral received | alue of posted collateral | Fair value of collateral | Fair value of posted | |
| | Segregated | Unsegregated | Segregated | Unsegregated | received | collateral |
| Cash | _ | 5,366 | _ | 1,023 | 1 | _ |
| Securities issued or guaranteed by | | | | | | |
| Canadian government | 3 | 52 | - | 474 | 5,759 | 2,281 |
| Canadian provincial and municipal governments | - | 366 | _ | 33 | 3,861 | 2,748 |
| U.S. Treasury, other U.S. agencies and other | | | | | | |
| foreign governments | 63 | 50 | _ | 5 | 534 | 1,392 |
| Other debt securities | _ | 20 | _ | _ | 82 | 256 |
| Equity securities | _ | _ | _ | _ | 8,297 | 13,742 |
| Total | 66 | 5,854 | ı | 1,535 | 18,534 | 20,419 |

CCR6 – Credit Derivatives Exposures

(unaudited) (millions of Canadian dollars)

The following tables illustrate the extent of a bank's exposures to credit derivative transactions broken down between derivatives purchased or sold.

| | Q2 2 | 2019 | Q1 2 | 2019 | Q4 2 | 018 |
|----------------------------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| | a | b | a | b | a | b |
| | Protection purchased | Protection sold | Protection purchased | Protection sold | Protection purchased | Protection sold |
| Notionals | | | | | | |
| Credit default swaps | | | | | | |
| Indices, singles names and other | 3,005 | 936 | 1,943 | 252 | 1,784 | 88 |
| Tranches on indices | - | _ | - | - | - | - |
| Total return swaps | 162 | _ | 161 | - | 162 | - |
| Credit options | - | _ | - | - | - | _ |
| Other credit derivatives | - | - | - | _ | - | _ |
| Total notionals | 3,167 | 936 | 2,104 | 252 | 1,946 | 88 |
| | | | | | | |
| Fair values | | | | | | |
| Positive fair value (asset) | 1 | 27 | 5 | 7 | 10 | 1 |
| Negative fair value (liability) | (78) | - | (42) | - | (36) | _ |

CCR8 – Exposures to Central Counterparties (CCP)⁽¹⁾

(unaudited) (millions of Canadian dollars)

The following table provides a comprehensive picture of the bank's exposures to central counterparties. In particular, the template includes all types of exposures and related capital requirements.

| | | Q2 2 | 019 | Q1 2 | 019 | Q4 2 | 018 |
|----|---------------------------------------------------------------------------------------------------|----------------|-----|----------------|-----|----------------|-----|
| | | a | b | a | b | a | b |
| | | EAD (post-CRM) | RWA | EAD (post-CRM) | RWA | EAD (post-CRM) | RWA |
| 1 | Exposures to QCCPs (total) | | 181 | | 276 | | 198 |
| 2 | Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which | 1,182 | 24 | 1,088 | 21 | 3,356 | 67 |
| 3 | (i) OTC derivatives | 36 | 1 | 51 | 1 | 1,002 | 20 |
| 4 | (ii) Exchange-traded derivatives | 1,077 | 22 | 917 | 18 | 2,304 | 46 |
| 5 | (iii) Securities financing transactions | 69 | 1 | 120 | 2 | 50 | 1 |
| 6 | (iv) Netting sets where cross-product netting has been approved | - | - | - | - | - | - |
| 7 | Segregated initial margin | 2,117 | | 2,123 | | 2,125 | |
| 8 | Non-segregated initial margin | 45 | - | 127 | - | 88 | 2 |
| 9 | Pre-funded default fund contributions | 389 | 157 | 482 | 255 | 503 | 129 |
| 10 | Unfunded default fund contributions | _ | _ | _ | - | _ | _ |

⁽¹⁾ The Bank has no exposure to non-qualifying central counterparties.

SEC1 – Securitization Exposures in the Banking Book

(unaudited) (millions of Canadian dollars)

The following tables present the bank's securitization exposures in its banking book.

| | | | - | - | | Q2 2019 | - | - | • | - |
|----|------------------------|-------------|--------------------------|------------------------|-------------|--------------------------|----------------------|-------------|--------------------------|-------------------------------------|
| | | a | b | С | e | f | g | i | j | k |
| | | | Ва | ank acts as originator | | | Bank acts as sponsor | | Ва | nks acts as investor ⁽¹⁾ |
| | | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total |
| 1 | Retail | 675 | - | 675 | 2,162 | 1 | 2,162 | 1,148 | - | 1,148 |
| | Of which: | | | | | | | | | |
| 2 | Residential mortgages | - | - | - | 1,850 | - | 1,850 | 336 | - | 336 |
| 3 | Credit card | 675 | - | 675 | - | - | - | 12 | - | 12 |
| 4 | Other retail exposures | - | - | _ | 312 | - | 312 | 800 | - | 800 |
| 5 | Re-securitization | _ | - | _ | - | - | - | - | _ | _ |
| 6 | Non-Retail | _ | - | - | 282 | - | 282 | 730 | - | 730 |
| | Of which: | | | | | | | | | |
| 7 | Loans to corporates | - | - | _ | - | - | - | - | - | - |
| 8 | Commercial mortgage | - | - | _ | - | - | - | 10 | - | 10 |
| 9 | Lease and receivables | - | - | - | 270 | - | 270 | 720 | - | 720 |
| 10 | Other wholesale | - | - | _ | 12 | - | 12 | - | - | _ |
| 11 | Re-securitization | _ | _ | _ | _ | - | - | - | _ | _ |

| | | | Q1 2019 | | | | | | | | |
|----|------------------------|-------------|--------------------------|------------------------|-------------|--------------------------|----------------------|-------------|--------------------------|-------------------------------------|--|
| | | а | b | С | e | f | g | i | j | k | |
| | | | Ва | ank acts as originator | | | Bank acts as sponsor | | Baı | nks acts as investor ⁽¹⁾ | |
| | | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total | |
| 1 | Retail | 661 | - | 661 | 2,188 | - | 2,188 | 1,111 | _ | 1,111 | |
| | Of which: | | | | | | | | | | |
| 2 | Residential mortgages | _ | - | - | 1,870 | - | 1,870 | 299 | - | 299 | |
| 3 | Credit card | 661 | - | 661 | _ | - | - | 12 | - | 12 | |
| 4 | Other retail exposures | - | - | - | 318 | - | 318 | 800 | - | 800 | |
| 5 | Re-securitization | _ | - | _ | _ | - | _ | - | _ | - | |
| 6 | Non-Retail | _ | _ | - | 278 | _ | 278 | 672 | _ | 672 | |
| | Of which: | | | | | | | | | | |
| 7 | Loans to corporates | _ | - | - | _ | - | - | - | - | - | |
| 8 | Commercial mortgage | - | - | - | _ | - | - | 12 | - | 12 | |
| 9 | Lease and receivables | - | - | - | 270 | - | 270 | 660 | - | 660 | |
| 10 | Other wholesale | _ | - | - | 8 | - | 8 | - | - | _ | |
| 11 | Re-securitization | _ | - | _ | - | - | _ | - | _ | - | |

⁽¹⁾ Represents the investment positions purchased in third-party deals.

⁽²⁾ The Bank has no synthetic securitization exposure.

SEC2 – Securitization Exposures in the Trading Book

(unaudited) (millions of Canadian dollars)

The following tables present the bank's securitization exposures in its trading book.

| | | | | | | Q2 2019 | | | | |
|----|------------------------|-------------|--------------------------|------------------------|-------------|--------------------------|----------------------|-------------|--------------------------|-------------------------------------|
| | | a | b | С | e | f | g | i | j | k |
| | | | Ва | ank acts as originator | | | Bank acts as sponsor | | Ва | nks acts as investor ⁽¹⁾ |
| | | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total |
| 1 | Retail | - | - | - | - | - | ı | 36 | - | 36 |
| | Of which: | | | | | | | | | |
| 2 | Residential mortgages | - | - | - | - | - | - | 28 | _ | 28 |
| 3 | Credit card | - | - | - | - | - | - | 8 | - | 8 |
| 4 | Other retail exposures | - | - | - | - | - | - | - | _ | - |
| 5 | Re-securitization | _ | - | _ | _ | - | - | - | - | _ |
| 6 | Non-Retail | _ | - | - | - | - | - | 17 | - | 17 |
| | Of which: | | | | | | | | | |
| 7 | Loans to corporates | _ | - | - | - | - | - | - | _ | - |
| 8 | Commercial mortgage | - | - | - | - | - | - | 12 | _ | 12 |
| 9 | Lease and receivables | _ | - | - | - | - | - | 5 | _ | 5 |
| 10 | Other wholesale | _ | - | - | - | - | - | - | - | - |
| 11 | Re-securitization | _ | - | _ | _ | - | - | - | - | _ |

| | | | | | | Q1 2019 | | | | |
|----|------------------------|-------------|--------------------------|------------------------|-------------|--------------------------|----------------------|-------------|--------------------------|-------------------------------------|
| | | a | b | С | e | f | g | i | j | k |
| | | | Ва | ank acts as originator | | | Bank acts as sponsor | | Bai | nks acts as investor ⁽¹⁾ |
| | | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total | Traditional | Synthetic ⁽²⁾ | Sub-total |
| 1 | Retail | - | - | ı | _ | - | ı | 20 | - | 20 |
| | Of which: | | | | | | | | | |
| 2 | Residential mortgages | - | - | - | - | - | - | 8 | _ | 8 |
| 3 | Credit card | - | - | - | - | - | - | 12 | - | 12 |
| 4 | Other retail exposures | - | - | - | - | - | - | - | - | - |
| 5 | Re-securitization | - | - | - | - | - | - | - | _ | _ |
| 6 | Non-Retail | - | - | - | - | - | - | 49 | _ | 49 |
| | Of which: | | | | | | | | | |
| 7 | Loans to corporates | - | - | - | - | - | - | - | - | - |
| 8 | Commercial mortgage | - | - | - | - | - | - | 12 | - | 12 |
| 9 | Lease and receivables | - | - | - | - | - | - | 37 | - | 37 |
| 10 | Other wholesale | - | - | - | - | - | - | - | - | - |
| 11 | Re-securitization | _ | - | 1 | _ | - | - | - | - | _ |

⁽¹⁾ Represents the investment positions purchased in third-party deals.

⁽²⁾ The Bank has no synthetic securitization exposure.

SEC 3 – Securitization Exposures in the Banking Book and Associated Regulatory Capital Requirements⁽¹⁾ - Bank Acting as Originator or as Sponsor -

(unaudited) (millions of Canadian dollars)

The following tables present securitization in the banking book when the bank acts as originator or sponsor and the associated capital requirements.

| | | | | | - | _ | | | | Q2 2019 | _ | | _ | | | | | |
|---|----------------------------|----------|--------------------|--------|----------------------|-------------|------|---------------|--------------|-------------|------|----------|--------------|--------------------------|------|----------|--------------|--------------|
| | | a | b | С | d | e | f | g | h | i | j | k | l | m | n | 0 | р | q |
| | | | | Exposu | re values (by | (RW bands) | Expo | sure values (| by regulator | y approach) | | RWA (by | y regulatory | approach) ⁽²⁾ | | | Capital char | ge after cap |
| - | | ≤ 20% RW | > 20% to 50% RW | | >100% to 1250% RW | 1250% RW | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% |
| 1 | Total exposures | 3,065 | | 28 | 26 | - | - | 3,119 | - | - | - | 369 | - | - | _ | 30 | ı | _ |
| 2 | Traditional securitization | 3,065 | - | 28 | 26 | _ | - | 3,119 | 1 | 1 | - | 369 | - | _ | - | 30 | ı | - |
| 3 | Of which securitization | 3,065 | 1 | 28 | 26 | _ | - | 3,119 | 1 | - | - | 369 | - | - | - | 30 | - | - |
| 4 | Of which retail underlying | 2,783 | - | 28 | 26 | _ | - | 2,837 | _ | - | - | 341 | - | - | - | 28 | - | ı −I |
| 5 | Of which wholesale | 282 | - | - | _ | _ | - | 282 | _ | - | - | 28 | - | - | - | 2 | - | ı −I |
| 6 | Of which re-securitization | - | - | - | _ | - | - | - | _ | - | _ | _ | - | - | - | - | - | ı - I |
| 7 | Of which senior | - | - | - | _ | - | - | - | - | - | - | - | - | - | - | - | - | ı - I |
| 8 | Of which non-senior | - | - | _ | _ | - | _ | _ | _ | _ | _ | _ | _ | - | - | _ | _ | ı – I |

| | | | | _ | _ | _ | | | | Q1 2019 | _ | | | | | | | |
|---|----------------------------|----------|----------|---------|---------------|-------------|------|---------------|--------------|-------------|------|----------|--------------|--------------|------|----------|--------------|---------------|
| | | a | b | С | d | е | f | g | h | i | j | k | l | m | n | 0 | р | q |
| | | | | Exposu | re values (by | y RW bands) | Expo | sure values (| by regulator | y approach) | | RWA (by | regulatory (| approach)(2) | | | Capital char | rge after cap |
| | | | > 20% to | | >100% to | | | | | | | | | | | | 1 | |
| | | ≤ 20% RW | 50% RW | 100% RW | 1250% RW | 1250% RW | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% |
| 1 | Total exposures | 3,074 | - | 28 | 25 | _ | - | 3,127 | ı | - | - | 371 | - | _ | ı | 29 | - | _ |
| 2 | Traditional securitization | 3,074 | _ | 28 | 25 | _ | - | 3,127 | ı | - | _ | 371 | - | _ | ı | 29 | - | _ |
| 3 | Of which securitization | 3,074 | - | 28 | 25 | _ | 1 | 3,127 | - | - | - | 371 | - | _ | 1 | 29 | - | - |
| 4 | Of which retail underlying | 2,795 | - | 28 | 25 | - | - | 2,848 | - | - | - | 343 | - | - | - | 27 | - ' | - |
| 5 | Of which wholesale | 279 | - | - | - | - | - | 279 | - | - | - | 28 | - | - | - | 2 | - ' | - |
| 6 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - ' | - |
| 7 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - ' | - |
| 8 | Of which non-senior | _ | _ | _ | - | _ | - | _ | _ | _ | - | _ | _ | _ | _ | _ | _ ' | - |

⁽¹⁾ The Bank has no synthetic securitization exposure.

⁽²⁾ RWA amounts do not include the transitional arrangement related amount.

SEC 4 – Securitization Exposures in the Banking Book and Associated Capital Requirements⁽¹⁾ - Bank Acting as Investor -

(unaudited) (millions of Canadian dollars)

The following tables present securitization exposures in the banking book where the bank acts as investor and the associated capital requirements.

| | | | | | | | | | | Q2 2019 | - | | | _ | | | | |
|---|----------------------------|---------------|----------|---------|----------------|------------|------|---------------|--------------|-------------|------|----------|--------------|--------------------------|------|----------|--------------|--------------|
| | | а | b | С | d | e | f | g | h | i | j | k | l | m | n | 0 | р | q |
| | | | | Exposi | ıre values (by | (RW bands) | Expo | sure values (| by regulator | y approach) | | RWA (by | / regulatory | approach) ⁽²⁾ | | | Capital char | ge after cap |
| | | | > 20% to | | >100% to | | | | | | | | | | | | | |
| _ | | \leq 20% RW | 50% RW | 100% RW | 1250% RW | 1250% RW | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% |
| 1 | Total exposures | 1,868 | - | 10 | _ | - | 320 | 758 | 800 | - | 50 | 80 | 128 | _ | 4 | 6 | 10 | _ |
| 2 | Traditional securitization | 1,868 | - | 10 | _ | _ | 320 | 758 | 800 | _ | 50 | 80 | 128 | _ | 4 | 6 | 10 | _ |
| 3 | Of which securitization | 1,868 | - | 10 | _ | - | 320 | 758 | 800 | - | 50 | 80 | 128 | _ | 4 | 6 | 10 | - |
| 4 | Of which retail underlying | 1,148 | - | - | - | - | 320 | 28 | 800 | - | 50 | 2 | 128 | _ | 4 | - | 10 | |
| 5 | Of which wholesale | 720 | - | 10 | - | - | - | 730 | - | - | _ | 78 | - | _ | - | 6 | - | |
| 6 | Of which re-securitization | - | - | - | - | - | - | - | - | - | - | - | - | _ | - | _ | - | _ |
| 7 | Of which senior | - | - | - | - | - | - | - | - | - | - | - | - | _ | - | - | - | _ |
| 8 | Of which non-senior | - | - | - | - | - | - | - | - | - | _ | - | - | _ | - | - | - | |

| | | | | | | | | | | Q1 2019 | | | | | | | | |
|---|----------------------------|---------------|----------|---------|---------------|------------|------|---------------|--------------|-----------|------|----------|--------------|--------------------------|------|----------|--------------|--------------|
| | | a | b | С | d | e | f | g | h | i | j | k | l | m | n | 0 | р | q |
| | | | | Exposu | re values (by | (RW bands) | Expo | sure values (| by regulator | approach) | | RWA (by | / regulatory | approach) ⁽²⁾ | | | Capital char | ge after cap |
| | | | | | | | | | | | | | | | | | | |
| | | | > 20% to | >50% to | >100% to | | | | | | | | | | | | | |
| | | \leq 20% RW | 50% RW | 100% RW | 1250% RW | 1250% RW | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% | IRBA | ERBA/IAA | SA/SSFA | 1250% |
| 1 | Total exposures | 971 | - | 812 | - | - | 300 | 1,483 | - | - | 45 | 595 | - | _ | 4 | 48 | - | _ |
| 2 | Traditional securitization | 971 | - | 812 | _ | _ | 300 | 1,483 | _ | _ | 45 | 595 | _ | _ | 4 | 48 | _ | _ |
| 3 | Of which securitization | 971 | - | 812 | - | _ | 300 | 1,483 | - | - | 45 | 595 | - | _ | 4 | 48 | - | - |
| 4 | Of which retail underlying | 311 | - | 800 | - | - | 300 | 811 | - | - | 45 | 522 | - | - | 4 | 42 | - | - |
| 5 | Of which wholesale | 660 | - | 12 | - | - | - | 672 | - | - | - | 73 | - | - | - | 6 | - | - |
| 6 | Of which re-securitization | - | - | - | - | - | - | _ | - | - | - | - | - | - | - | - | - | - |
| 7 | Of which senior | - | - | - | - | - | - | _ | - | - | - | - | - | - | - | - | - | - |
| 8 | Of which non-senior | - | - | - | - | - | - | - | - | _ | - | - | - | - | - | - | - | _ |

⁽¹⁾ The Bank has no synthetic securitization exposure.

⁽²⁾ RWA amounts do not include the transitional arrangement related amount.

Glossary

| Advanced Internal Ratings-Based (AIRB) approach | See risk-weighted assets below. |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Banking Book Equities | Banking book equities comprise mainly exposures held for strategic and other reasons. |
| Capital Ratio | The Bank's capital divided by risk-weighted assets. The Bank's capital can be either CET1 Capital, Tier 1 capital or Total capital, producing three different capital ratios. |
| Common Equity Tier 1 (CET1) capital | Common Equity Tier 1 capital consists of common shareholders' equity less goodwill, intangible assets and other capital deductions. Common Equity Tier 1 capital ratio is calculated by dividing Common Equity Tier 1 capital by risk-weighted assets. |
| Corporate | All direct credit risk exposures to corporations, partnerships and proprietorships, exposures guaranteed by those entities. |
| Credit Risk | Credit risk is the risk of a financial loss if an obligor does not fully honor its contractual commitments to the Bank. Obligors may be borrowers, issuers, counterparties or guarantors. Credit risk is the most significant risk facing the Bank in the normal course of business. The Bank is exposed to credit risk not only through its direct lending activities and transactions but also through commitments to extend credit, letters of guarantee, letters of credit, over-the-counter derivatives trading, available-for-sale debt securities, securities purchased under reverse repurchase agreements, deposits with financial institutions, brokerage activities and transactions carrying a settlement risk for the Bank such as irrevocable fund transfers to third parties via electronic payment systems. |
| Drawn exposure | The amount of credit risk exposure resulting from loans already advanced to the customer. |
| Exposure at default (EAD) | An estimate of the amount of exposure to a customer at the event of, and at the time of, default. |
| Financial institutions | All direct credit risk exposures to deposit-taking institutions and regulated securities firms, and exposures guaranteed by those entities. |
| Leverage ratio | The leverage ratio is calculated by dividing the amount of Tier 1 capital by the total exposure. Total exposure is defined as the sum of on-balance-sheet assets (including derivative exposures and securities financing transaction exposures) and off-balance-sheet items. Assets deducted from Tier 1 capital are also deducted from the total exposure. |
| Loss given default (LGD) | An estimate of the amount of exposure to a customer that will not be recovered following a default by that customer, expressed as a percentage of the exposure at default. |
| Market risk | Market risk is the risk of financial loss resulting from adverse movements in underlying market factors. Market risk at the Bank arises from its participation in market-making, trading, investment and asset/liability management activities. |
| Operational risk | Operational risk is the risk of loss resulting from an inadequacy or a failure ascribable to people, processes, technology or external events. Operational risks are present in every activity of the Bank. Theft, fraud, unauthorized transactions, system errors, human error, amendments to or misinterpretation of acts and regulations, litigation or disputes with clients or property damage are just a few examples of events likely to cause financial loss, harm the Bank's reputation or result in regulatory penalties or sanctions. |
| Other off-balance sheet | Letters of guarantee, documentary letters of credit and securitized assets that represent the Bank's commitment to make payments in the event that a client cannot meet its financial obligations to third parties. |
| Other retail | This exposure class includes consumer loans, SME credit card receivables, SME loans (excluding mortgages of five units or more), and other personal loans. |
| Over-the-counter derivatives (OTC) | The amount of credit risk exposure resulting from derivatives that trade directly between two counterparties, rather than through exchanges. |
| Probability of default (PD) | An estimate of the likelihood of default for any particular customer which occurs when that customer is not able to repay its obligations as they become contractually due. |
| Qualifying revolving retail (QRR) | This exposure class includes lines of credit and credit card receivables. |
| Repo-style transactions | Financial obligations related to securities sold (repos) or repurchased (reverse repos) pursuant to an agreement under which the securities will be repurchased (repos) or resold (reverse repos) on a specified date and at a specified price. Such an agreement is a form of short-term funding (repos) or collateralized lending (reverse repos). Repo-style transactions also include loaned and borrowed securities that are off-balance sheet. |
| Retail Residential Mortgage | This exposure class includes loans to individuals against residential property (four units or less) and lines of credit secured by equity in residential property (HELOC). |
| Risk-weighted assets (RWA) | Assets are risk weighted according to the guidelines established by the Office of the Superintendent of Financial Institutions. In the standardized calculation approach, factors are applied to the face value of certain assets in order to reflect comparable risk levels. In the advanced approach, risk-weighted assets are derived from the Bank's internal models which represents the Bank's own assessment of the risks it incurs. Off-balance sheet instruments are converted to balance sheet (or credit) equivalents by adjusting the notional values before applying the appropriate risk-weighting factors. |
| Scaling Factor | An add-on of 6% is applied as a calibration adjustment to the risk weighted assets amount for credit risk assessed under the AIRB approach. |
| Sovereign | All direct credit risk exposures to governments, central banks and certain public sector entities, and exposures guaranteed by those entities. |
| Standardized approach | See risk-weighted assets. |
| Tier 1 capital | Tier 1 capital ratio consists of Common Equity Tier 1 capital and Additional Tier 1 instruments, namely, eligible non-cumulative preferred shares and the eligible amount of innovative instruments. Tier 1 capital ratio is calculated by dividing Tier 1 capital by risk-weighted assets. |
| Tier 2 capital | Tier 2 capital mainly includes the qualifying portion of the subordinated debentures and the collective allowance on non-impaired loans eligible for credit risk. |
| Total capital | Total capital is the sum of Tier 1 and Tier 2 capital. Total capital ratio is calculated by dividing total capital, less adjustments or regulatory deductions, by risk-weighted assets. |
| Undrawn commitments | The amount of credit risk exposure resulting from loans that have not been advanced to a customer, but which a customer may be entitled to draw in the future. |