



Supplementary Regulatory Capital and Pillar 3 Disclosure

First Quarter 2022

(unaudited)

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Notes to users

- 1) This *Supplementary Regulatory Capital and Pillar 3 Disclosure* document is unaudited and should be read in conjunction with the *2021 Annual Report*. All amounts are in millions of Canadian dollars, unless otherwise indicated.
- 2) The information provided in this document is subject to the same level of internal review and internal control processes as the information provided by the Bank for its financial reporting.
- 3) Financial information is available through the *Report to Shareholders* for all quarters of 2022 and also in the document entitled *Supplementary Financial Information* which are available on the Bank's website at nbc.ca. Prior reporting periods are also available on the Bank's website.
- 4) The Bank has its own methods for managing capital and liquidity, and IFRS does not prescribe any particular calculation method. These measures are calculated using various OSFI guidelines and advisories, which are based on the standards, recommendations, and best practices of the Basel Committee on Banking Supervision (BCBS), as presented in the following table.

OSFI guideline or advisory	Measure
Capital Adequacy Requirements	Common Equity Tier 1 (CET1) capital ratio Tier 1 capital ratio Total capital ratio CET1 capital Tier 1 capital Tier 2 capital Total capital Risk-weighted assets Maximum credit risk exposure under the Basel asset classes
Leverage Requirements	Leverage ratio Total exposure
Total Loss Absorbing Capacity (TLAC)	Key indicators – TLAC requirements TLAC ratio TLAC leverage ratio

- 5) For certain prescribed tables formats where row or column items have zero balances, such items have not been presented.

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Location of Pillar 3 Disclosure

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CR6 - IRB - Credit Risk Exposures by Portfolio and PD Range			n.a.
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MRA - Qualitative Disclosure Requirements Related to Market Risk			The Bank continues to apply the market risk disclosures under Basel 2.5 framework as permitted by OSFI.
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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 – First Quarter 2022*.

(3) These pages are included in the *Supplementary Regulatory Capital and Pillar 3 Disclosure – Fourth Quarter 2021*.

KM2 – Key Metrics – TLAC Requirements⁽¹⁾

(millions of Canadian dollars)

		2022	2021			
		Q1	Q4	Q3	Q2	Q1
		a				
1	Total loss-absorbing capacity (TLAC) available	29,462	27,492	26,748	25,576	24,602
1a	TLAC available with transitional arrangements for ECL provisioning not applied	29,462	27,492	26,748	25,576	24,602
2	Total RWA at the level of the resolution group	106,168	104,358	103,139	98,705	97,183
3	TLAC ratio: TLAC as a percentage of RWA (row 1 / row 2) (%)	27.8%	26.3%	25.9%	25.9%	25.3%
3a	TLAC ratio: TLAC as a percentage of RWA (row 1a / row 2) (%) with transitional arrangements for ECL provisioning not applied	27.8%	26.3%	25.9%	25.9%	25.3%
4	Leverage ratio exposure measure at the level of the resolution group	367,775	351,160	344,930	339,738	334,013
5	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1 / row 4) (%)	8.0%	7.8%	7.8%	7.5%	7.4%
5a	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure with transitional arrangements for ECL provisioning not applied (row 1a / row 4) (%)	8.0%	7.8%	7.8%	7.5%	7.4%
6a	Does the subordination exemption in the antepenultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	yes	yes	yes	yes	yes
6b	Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	no	no	no	no	no
6c	If the capped subordination exemption applies, the amount of funding issued that ranks pari passu with Excluded Liabilities and that is 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.	n.a.	n.a.	n.a.

(1) Minimum TLAC ratios is required since November 1, 2021. Rows 1, 3 and 5 incorporate expected credit loss transitional relief provided by OSFI as announced on March 27, 2020. Rows 1a, 3a and 5a represent TLAC available with transitional arrangements for ECL provisioning not applied.

OV1 – Overview of RWA⁽¹⁾

(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.

	Q1 2022	Q4 2021	Q3 2021	Q2 2021	Q1 2021	Q1 2022
	a	b	b	b	b	c
	RWA ⁽¹⁾	Minimum capital requirement ⁽²⁾				
1 Credit risk (excluding counterparty credit risk)	75,604	73,421	71,820	69,232	68,566	6,049
2 Of which: standardised approach (SA)	17,284	15,984	14,788	14,192	14,150	1,383
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	58,320	57,437	57,032	55,040	54,416	4,666
6 Counterparty credit risk (CCR)	7,270	7,346	7,454	7,006	6,910	582
7 Of which: standardised approach for counterparty credit risk	5,205	5,495	5,676	5,204	5,256	416
8 Of which: internal model method (IMM)	–	–	–	–	–	–
9 Of which: other CCR	1,646	1,399	1,346	1,506	1,422	132
9a Of which: exposures to central counterparties	419	452	432	296	232	34
10 Credit valuation adjustment (CVA)	2,115	2,112	2,046	1,716	1,337	169
11 Equity positions under the simple risk weight approach⁽³⁾	896	945	1,016	1,151	1,111	72
12 Equity investments in funds – look-through approach	242	205	180	141	146	19
13 Equity investments in funds – mandate-based approach	–	–	–	–	–	–
14 Equity investments in funds – fall-back approach	–	–	–	–	–	–
15 Settlement risk	76	160	245	143	74	6
16 Securitization exposures in banking book	843	856	698	683	666	67
16a Of which: subject to the transitional arrangement	–	–	–	–	–	–
17 Of which: securitization IRB approach (SEC-IRBA)	181	244	189	171	153	14
18 Of which: securitization external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA)	346	370	390	407	408	28
19 Of which: securitization standardised approach (SEC-SA)	316	242	119	105	105	25
20 Market risk	3,498	3,770	4,072	3,307	3,489	280
21 Of which: standardised approach (SA)	1,002	929	924	873	1,017	80
22 Of which: internal model approach (IMA)	2,496	2,841	3,148	2,434	2,472	200
23 Capital charge for switch between trading book and banking book	–	–	–	–	–	–
24 Operational risk	13,781	13,375	13,153	12,884	12,594	1,102
25 Amounts below the thresholds for deduction (subject to 250% risk weight)	1,843	2,168	2,455	2,442	2,290	147
26 Floor adjustment	–	–	–	–	–	–
27 Total (1+6+10+11+12+13+14+15+16+20+23+24+25+26)	106,168	104,358	103,139	98,705	97,183	8,493

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

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

(3) 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.

L11 – Differences Between Accounting and Regulatory Scopes of Consolidation and Mapping of Financial Statements with Regulatory Risk Categories⁽¹⁾

(millions of Canadian dollars)

For the following table 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.

	Q1 2022						
	a	b	c	d	e	f	g
	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation	Subject to credit risk framework	Subject to counterparty credit risk framework	Subject to the securitization framework	Subject to the market risk framework	Carrying values of items ⁽²⁾ Not subject to capital requirements or subject to deduction from capital
Assets							
Cash and deposits with financial institutions	40,063	40,063	40,063	–	–	157	–
Securities							
At fair value through profit or loss	77,689	80,583	1,598	–	12	78,973	–
At fair value through other comprehensive income	8,042	16,677	16,655	–	22	–	–
At amortized cost	13,011	13,183	11,674	–	1,509	–	–
	98,742	110,443	29,927	–	1,543	78,973	–
Securities purchased under reverse repurchase agreements and securities borrowed	15,178	14,794	–	14,794	–	–	–
Loans and acceptances							
Residential mortgage	74,363	46,174	46,174	–	–	–	–
Personal	41,975	41,975	41,975	–	–	–	–
Credit card	2,039	2,039	642	–	1,271	–	126
Business and government	63,863	63,863	63,863	–	320	424	–
Customers' liability under acceptances	182,240	154,051	152,654	–	1,591	424	126
Allowances for credit losses	6,768	6,768	6,768	–	–	–	–
	(928)	(407)	(407)	–	–	–	–
	188,080	160,412	159,015	–	1,591	424	126
Other							
Derivative financial instruments ⁽³⁾	15,333	16,065	–	16,065	–	14,814	–
Investments in associates and joint ventures	201	391	391	–	–	–	–
Premises and equipment	1,253	1,253	1,253	–	–	–	–
Goodwill	1,508	1,592	–	–	–	–	1,592
Intangible assets	1,523	1,264	–	–	–	–	1,264
Other assets	5,007	4,994	4,428	–	–	–	566
	24,825	25,559	6,072	16,065	–	14,814	3,422
Total assets	366,888	351,271	235,077	30,859	3,134	94,368	3,548
Liabilities							
Deposits	247,095	247,095	–	–	–	14,648	232,447
Other							
Acceptances	6,768	6,768	–	–	–	–	6,768
Obligations related to securities sold short	20,529	20,529	–	–	–	20,529	–
Obligations related to securities sold under repurchase agreements and securities loaned	25,304	31,150	–	31,150	–	–	–
Derivative financial instruments ⁽³⁾	15,810	16,388	–	16,388	–	15,595	–
Liabilities related to transferred receivables	25,107	25,107	–	–	–	–	25,107
Other liabilities	5,860	5,860	–	–	–	–	5,860
	99,378	105,802	–	47,538	–	36,124	37,735
Subordinated debt	766	766	–	–	–	–	766
Total liabilities	347,239	353,663	–	47,538	–	50,772	270,948

(1) The basis of consolidation used for financial accounting purposes, described in Note 1 to the audited annual consolidated financial statements for the year ended October 31, 2021, 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

(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.

		Q1 2022				
		a	b	c	d	e
		Total	Items subject to ⁽¹⁾ :			
			Credit risk framework	Securitization framework	Counterparty credit risk framework	Market risk framework
1	Asset carrying value amount under scope of regulatory consolidation (as per template LI1)	347,723	235,077	3,134	30,859	94,368
2	Liabilities carrying value amount under scope of regulatory consolidation (as per template LI1)	82,715	–	–	47,538	50,772
3	Total net amount under regulatory scope of consolidation	265,008	235,077	3,134	(16,679)	43,596
4	<i>Gross-up for repo-style transactions⁽²⁾</i>	62,300	–	–	62,300	–
5	<i>Potential future exposures (PFE)⁽³⁾</i>	13,637	–	–	13,637	–
6	<i>Off-balance sheet amounts⁽⁴⁾</i>	211,502	60,388	4,029	115,088	–
7	<i>Differences due to different netting rules, other than those already included in row 2 including collateral</i>	6,513	–	–	6,513	–
8	VaR amounts for Securities Financing Transactions (SFTs)	9,886	–	–	9,886	–
9	<i>Differences in valuations</i>	–	–	–	–	–
10	<i>Collateral for SFTs</i>	(154,338)	–	–	(154,338)	–
11	Exposure amounts considered for regulatory purposes⁽⁵⁾	414,508	295,465	7,163	36,407	43,596

(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) Liabilities for repo-style transactions represent regulatory exposures under the counterparty credit risk framework. As these liabilities are deducted from the carrying value of assets in line 2, a gross-up is required to arrive at the exposure amount considered for regulatory purposes.

(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

(millions of Canadian dollars)

		2022		2021			
		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'	3,254	3,207	3,188	3,171	3,139
2	Retained earnings	b	13,719	13,028	12,492	11,704	10,998
3	Accumulated other comprehensive income and other reserves	c	23	(32)	(151)	(169)	(167)
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	–	–	–	–	–
6	Common Equity Tier 1 capital before regulatory adjustments		16,996	16,203	15,529	14,706	13,970
Regulatory adjustments to Common Equity Tier 1 capital							
7	Prudential valuation adjustments		–	–	–	–	–
8	Goodwill (net of related tax liability)	e - w	(1,592)	(1,587)	(1,500)	(1,497)	(1,508)
9	Intangible assets other than mortgage-servicing rights	f - x	(1,264)	(1,251)	(1,245)	(1,240)	(1,222)
10	Deferred tax assets excluding those arising from temporary differences (net of related tax liability)	g	(34)	(34)	(39)	(42)	(41)
11	Accumulated other comprehensive income related to cash flow hedges	h	(39)	(23)	115	114	249
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	(34)	39	56	117	140
15	Defined benefit pension plan assets (net of related tax liability)	k - y	(566)	(481)	(471)	(305)	(196)
16	Investments in own shares (if not already netted off contributed surplus on reported balance sheet)		–	–	–	–	–
17	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	o	–	–	–	–	–
26	Other deductions or regulatory adjustments to CET1 as determined by OSFI (including regulatory adjustments in respect of own use property)		48	107	129	144	171
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		(3,481)	(3,230)	(2,955)	(2,709)	(2,407)
29	Common Equity Tier 1 capital (CET1)		13,515	12,973	12,574	11,997	11,563
29a	CET1 with transitional arrangements for ECL provisioning not applied		13,467	12,866	12,445	11,853	11,392
Additional Tier 1 capital: instruments							
30	Directly issued qualifying Additional Tier 1 instruments plus related contributed surplus ⁽²⁾		2,650	2,650	2,650	3,050	2,950
31	of which: classified as equity under applicable accounting standards	v + z	2,650	2,650	2,650	3,050	2,950
32	of which: classified as liabilities under applicable accounting standards	p	–	–	–	–	–
33	Directly issued capital instruments subject to phase out from Additional Tier 1 ⁽²⁾	v' + z' + p'	–	–	–	–	–
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	–	–	–	–	–
35	of which: instruments issued by subsidiaries subject to phase out		–	–	–	–	–
36	Additional Tier 1 capital before regulatory adjustments		2,650	2,650	2,650	3,050	2,950

(1) Reconciliation with Balance Sheet is presented on pages 12 and 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)

(millions of Canadian dollars)

		2022		2021		
		Q1	Q4	Q3	Q2	Q1
		Reference ⁽¹⁾				
Additional Tier 1 capital: regulatory adjustments						
37	Investments in own Additional Tier 1 instruments	-	-	(2)	(4)	-
38	Reciprocal cross holdings in Additional Tier 1 instruments	-	-	-	-	-
39	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold)	-	-	-	-	-
40	Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions	-	-	-	-	-
41	Other deductions from Tier 1 capital as determined by OSFI	(1)	(1)	(1)	(1)	(1)
41a	of which: Reverse mortgages	(1)	(1)	(1)	(1)	(1)
42	Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions	-	-	-	-	-
43	Total regulatory adjustments to Additional Tier 1 capital	(1)	(1)	(3)	(5)	(1)
44	Additional Tier 1 capital (AT1)	2,649	2,649	2,647	3,045	2,949
45	Tier 1 capital (T1 = CET1 + AT1)	16,164	15,622	15,221	15,042	14,512
45a	Tier 1 Capital with transitional arrangements for ECL provisioning not applied	16,116	15,515	15,092	14,898	14,341
Tier 2 capital: instruments and allowances						
46	Directly issued qualifying Tier 2 instruments plus related contributed surplus ⁽²⁾	r	750	750	750	750
47	Directly issued capital instruments subject to phase out from Tier 2 ⁽²⁾	r'	-	9	9	9
48	Tier 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	-	-	-	-
49	of which: instruments issued by subsidiaries subject to phase out	-	-	-	-	-
50	Allowances for credit losses	t	359	337	368	402
51	Tier 2 capital before regulatory adjustments	1,109	1,096	1,127	1,156	1,161
Tier 2 capital: regulatory adjustments						
52	Investments in own Tier 2 instruments	-	-	-	-	-
53	Reciprocal cross holdings in Tier 2 instruments and Other TLAC-eligible instruments	-	-	-	-	-
54	Non-significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, where the institution does not own more than 10% of the issued common share capital of the entity (amount above 10% threshold)	(150)	(75)	(45)	(45)	(84)
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	(150)	(75)	(45)	(45)	(84)
55	Significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation	-	-	-	-	-
56	Other deductions from Tier 2 capital	-	-	-	-	-
57	Total regulatory adjustments to Tier 2 capital	(150)	(75)	(45)	(45)	(84)
58	Tier 2 capital (T2)	959	1,021	1,082	1,111	1,077
59	Total capital (TC = T1 + T2)	17,123	16,643	16,303	16,153	15,589
59a	Total Capital with transitional arrangements for ECL provisioning not applied	17,123	16,643	16,303	16,153	15,589

(1) Reconciliation with Balance Sheet is presented on pages 12 and 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)

(millions of Canadian dollars)

		2022	2021			
		Q1	Q4	Q3	Q2	Q1
60	Total risk-weighted assets	106,168	104,358	103,139	98,705	97,183
60a	Common Equity Tier 1 Capital RWA (CET1)	106,168	104,358	103,139	98,705	97,183
60b	Tier 1 Capital RWA	106,168	104,358	103,139	98,705	97,183
60c	Total capital RWA	106,168	104,358	103,139	98,705	97,183
Capital ratios						
61	Common Equity Tier 1 (as a percentage of risk weighted assets)	12.7%	12.4%	12.2%	12.2%	11.9%
61a	CET1 Ratio with transitional arrangements for ECL provisioning not applied	12.7%	12.3%	12.1%	12.0%	11.7%
62	Tier 1 (as a percentage of risk weighted assets)	15.2%	15.0%	14.8%	15.2%	14.9%
62a	Tier 1 Capital Ratio with transitional arrangements for ECL provisioning not applied	15.2%	14.9%	14.6%	15.1%	14.8%
63	Total capital (as a percentage of risk weighted assets)	16.1%	15.9%	15.8%	16.4%	16.0%
63a	Total Capital Ratio with transitional arrangements for ECL provisioning not applied	16.1%	15.9%	15.8%	16.4%	16.0%
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%
65	of which: capital conservation buffer requirement	2.5%	2.5%	2.5%	2.5%	2.5%
66	of which: bank-specific countercyclical buffer	0.0%	0.0%	0.0%	0.0%	0.0%
67	of which: G-SIB buffer requirement	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%
68	Common Equity Tier 1 available to meet buffers (as a percentage of risk weighted assets)	12.7%	12.4%	12.2%	12.2%	11.9%
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%
70	Tier 1 capital all-in target ratio	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%
Amounts below the thresholds for deduction (before risk weighting)						
72	Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities	694	668	696	695	435
73	Significant investments in the common stock of financials	392	363	381	369	353
74	Mortgage servicing rights (net of related tax liability)	–	–	–	–	–
75	Deferred tax assets arising from temporary differences (net of related tax liabilities)	346	505	601	608	563
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)	143	130	131	134	137
77	Cap on inclusion of allowances in Tier 2 under standardised approach	203	189	177	167	167
78	Allowance eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings-based approach (IRB) (prior to application of cap)	216	208	237	263	265
79	Cap on inclusion of allowances in Tier 2 under internal ratings-based approach	436	433	431	415	407
Capital instruments subject to phase-out arrangements (only applicable between January 1, 2013 and January 1, 2022)						
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	–	194	194	194	194
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	–	238	238	238	238
85	Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	–	–	–	–	–

(1) Does not include the domestic stability buffer.

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

(millions of Canadian dollars)

	Q1 2022		
	Cross - Reference to Definition of Capital ⁽²⁾	As in Report to Shareholders	Under scope of regulatory consolidation
Assets			
Cash and deposits with financial institutions		40,063	40,063
Securities		98,742	110,443
Non-significant investments in capital of other financial institutions reflected in regulatory capital	l	–	–
Other securities		98,742	110,443
Assets purchased under reverse repurchase agreements and securities borrowed		15,178	14,794
Loans			
Residential mortgage		74,363	46,174
Personal		41,975	41,975
Credit card		2,039	2,039
Business and government		63,863	63,863
Customers' liability under acceptances		6,768	6,768
Less: Allowances for credit losses		(928)	(407)
Allowance reflected in Tier 2 regulatory capital	t	–	(407)
Shortfall of allowances to expected loss	i	–	–
Allowances not reflected in regulatory capital		–	(521)
Other assets			
Derivative financial instruments		15,333	16,065
Other		9,492	9,494
Goodwill	e	1,508	1,592
Intangibles assets	f	2,776	1,523
Deferred tax assets		252	715
Deferred tax assets excluding those arising from temporary differences	g	–	34
Deferred tax assets arising from temporary differences exceeding regulatory thresholds	o	–	–
Deferred tax assets - realize through loss carrybacks		–	336
Deferred tax assets - other temporary differences		–	345
Defined-benefit pension fund net assets	k	–	770
Significant investments in other financial institutions		–	392
Significant investments exceeding regulatory thresholds	m + n	–	–
Significant investments not exceeding regulatory thresholds		–	392
Other		4,956	4,502
Total assets		366,888	351,271

(1) The basis of consolidation used for financial accounting purposes, described in Note 1 to the audited annual consolidated financial statements for the year ended October 31, 2021, 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 \$247 million and \$15 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)

(millions of Canadian dollars)

	Q1 2022		
	Cross - Reference to Definition of Capital ⁽²⁾	As in Report to Shareholders	Under scope of regulatory consolidation
Liabilities			
Deposits		247,095	247,095
Derivatives financial instruments		15,810	16,388
Other liabilities		83,568	89,414
Gains and losses due to changes in own credit risk on fair value liabilities	j	–	34
Deferred tax liabilities		13	13
Related to goodwill	w	–	–
Related to intangibles	x	–	260
Related to pensions	y	–	204
Other deferred tax liabilities		–	(451)
Other		83,555	89,367
Subordinated debt		766	766
Regulatory capital amortization of maturing debentures		–	–
Fair value adjustment and unamortized issuance cost		–	16
Subordinated debentures not allowed for regulatory capital	s	–	–
Subordinated debentures used for regulatory capital		–	750
Allowed for inclusion in Tier 2 capital	r	–	750
Subject to phase out	r'	–	–
Total liabilities		347,239	353,663
Equity Attributable to Shareholders and holders of other equity instruments		19,646	19,646
Common shares	a	3,208	3,208
Contributed surplus	a'	46	46
Retained earnings	b	13,719	13,719
Accumulated Other Comprehensive Income (loss)	c	23	23
Net gains (losses) on instruments designated as cash flow hedges	h	39	39
Net foreign currency translation adjustments		(47)	(47)
Other		31	31
Preferred shares and other equity instruments		2,650	2,650
of which: are qualifying	v	–	2,650
of which: are subject to phase out	v'	–	–
Non-controlling interest		3	3
Innovative instruments		–	–
of which: are qualifying		–	–
of which: are subject to phase out	p'	–	–
Other		–	–
Portion allowed for inclusion into CET1	d	–	–
Portion allowed for inclusion into Tier 1 capital	q	–	–
Portion allowed for inclusion into Tier 2 capital	s	–	–
Portion not allowed for regulatory capital		–	3
Total Equity		19,649	19,649
Total Liabilities and Equity		366,888	373,312

(1) The basis of consolidation used for financial accounting purposes, described in Note 1 to the audited consolidated financial statements for the year ended October 31, 2021, 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 \$247 million and \$15 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⁾

(millions of Canadian dollars)

		2022	2021			
		Q1	Q4	Q3	Q2	Q1
Regulatory capital elements of TLAC and adjustments						
1	Common Equity Tier 1 capital (CET1)	13,515	12,973	12,574	11,997	11,563
2	Additional Tier 1 capital (AT1) before TLAC adjustments	2,650	2,650	2,650	3,050	2,950
3	AT1 ineligible as TLAC as issued out of subsidiaries to third parties ⁽²⁾	-	-	-	-	-
4	Other adjustments	(1)	(1)	(3)	(5)	(1)
5	AT1 instruments eligible under the TLAC framework	2,649	2,649	2,647	3,045	2,949
6	Tier 2 capital (T2) before TLAC adjustments	1,109	1,096	1,127	1,156	1,161
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 ⁽²⁾	-	-	-	-	-
9	Other adjustments	(150)	(75)	(45)	(45)	(84)
10	T2 instruments eligible under the TLAC framework	959	1,021	1,082	1,111	1,077
11	TLAC arising from regulatory capital	17,123	16,643	16,303	16,153	15,589
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	12,400	10,869	10,480	9,442	9,033
14	Of which: amount eligible as TLAC after application of the caps	-	-	-	-	-
15	External TLAC instruments issued by funding vehicles prior to January 1, 2022	-	-	-	-	-
16	Eligible ex ante commitments to recapitalise a G-SIB in resolution	-	-	-	-	-
17	TLAC arising from non-regulatory capital instruments before adjustments	12,400	10,869	10,480	9,442	9,033
Non-regulatory capital elements of TLAC: adjustments						
18	TLAC before deductions	29,523	27,512	26,783	25,595	24,622
19	Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs)	-	-	-	-	-
20	Deduction of investments in own other TLAC liabilities	(61)	(20)	(35)	(19)	(20)
21	Other adjustments to TLAC	-	-	-	-	-
22	TLAC available after deductions	29,462	27,492	26,748	25,576	24,602
Risk-weighted assets and leverage exposure measure for TLAC purposes						
23	Total risk-weighted assets adjusted as permitted under the TLAC regime	106,168	104,358	103,139	98,705	97,183
24	Leverage exposure measure	367,775	351,160	344,930	339,738	334,013
TLAC ratios and buffers						
25	TLAC ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime)	27.8%	26.3%	25.9%	25.9%	25.3%
26	TLAC Leverage ratio (as a percentage of leverage exposure)	8.0%	7.8%	7.8%	7.5%	7.4%
27	CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements	7.1%	n.a.	n.a.	n.a.	n.a.
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%	3.5%	3.5%	3.5%	3.5%
29	Of which: capital conservation buffer	2.5%	2.5%	2.5%	2.5%	2.5%
30	Of which: bank specific countercyclical buffer	-	-	-	-	-
31	Of which: D-SIB \ G-SIB buffer	1.0%	1.0%	1.0%	1.0%	1.0%

(1) Minimum TLAC ratios is required since November 1, 2021.

(2) Additional Tier 1 capital and Tier 2 capital issued out of subsidiaries to third parties were eligible as TLAC up to January 1, 2022.

TLAC3 – Creditor Ranking at Legal Entity Level⁽¹⁾

(millions of Canadian dollars)

		Q1 2022						Q4 2021					
		Creditor ranking					Sum (1 to 5)	Creditor ranking					Sum (1 to 5)
		1	2	3	4 ⁽²⁾	5 ⁽³⁾		1	2	3	4 ⁽²⁾	5 ⁽³⁾	
		Most junior			Most senior			Most junior			Most senior		
1	Description of creditor ranking	Common shares	Preferred shares	Subordinated debt	Bail-in debt	Other liabilities excluding Bail-in debt		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	3,208	2,650	750	13,354	–	19,962	3,160	2,650	759	11,798	–	18,367
3	Subset of row 2 that are excluded liabilities	–	–	–	1,015	–	1,015	–	–	–	949	–	949
4	Total capital and liabilities less excluded liabilities (row 2 minus row 3)	3,208	2,650	750	12,339	–	18,947	3,160	2,650	759	10,849	–	17,418
5	Subset of row 4 that are potentially eligible as TLAC	3,208	2,650	750	12,339	–	18,947	3,160	2,650	759	10,849	–	17,418
6	Subset of row 5 with 1 year ≤ residual maturity < 2 years	–	–	–	2,650	–	2,650	–	–	–	2,582	–	2,582
7	Subset of row 5 with 2 years ≤ residual maturity < 5 years	–	–	–	7,367	–	7,367	–	–	–	6,227	–	6,227
8	Subset of row 5 with 5 years ≤ residual maturity < 10 years	–	–	750	319	–	1,069	–	–	750	311	–	1,061
9	Subset of row 5 residual maturity ≥ 10 years, but excluding perpetual securities	–	–	–	2,003	–	2,003	–	–	9	1,729	–	1,738
10	Subset of row 5 that is perpetual securities	3,208	2,650	–	–	–	5,858	3,160	2,650	–	–	–	5,810

		Q3 2021						Q2 2021					
		Creditor ranking					Sum (1 to 5)	Creditor ranking					Sum (1 to 5)
		1	2	3	4 ⁽²⁾	5 ⁽³⁾		1	2	3	4 ⁽²⁾	5 ⁽³⁾	
		Most junior			Most senior			Most junior			Most senior		
1	Description of creditor ranking	Common shares	Preferred shares	Subordinated debt	Bail-in debt	Other liabilities excluding Bail-in debt		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	3,141	2,650	759	10,776	–	17,326	3,129	3,050	759	9,738	–	16,676
3	Subset of row 2 that are excluded liabilities	–	–	–	331	–	331	–	–	–	315	–	315
4	Total capital and liabilities less excluded liabilities (row 2 minus row 3)	3,141	2,650	759	10,445	–	16,995	3,129	3,050	759	9,423	–	16,361
5	Subset of row 4 that are potentially eligible as TLAC	3,141	2,650	759	10,445	–	16,995	3,129	3,050	759	9,423	–	16,361
6	Subset of row 5 with 1 year ≤ residual maturity < 2 years	–	–	–	2,913	–	2,913	–	–	–	2,312	–	2,312
7	Subset of row 5 with 2 years ≤ residual maturity < 5 years	–	–	–	5,112	–	5,112	–	–	–	4,893	–	4,893
8	Subset of row 5 with 5 years ≤ residual maturity < 10 years	–	–	750	1,012	–	1,762	–	–	750	831	–	1,581
9	Subset of row 5 residual maturity ≥ 10 years, but excluding perpetual securities	–	–	9	1,408	–	1,417	–	–	9	1,387	–	1,396
10	Subset of row 5 that is perpetual securities	3,141	2,650	–	–	–	5,791	3,129	3,050	–	–	–	6,179

(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

(millions of Canadian dollars)

	2022	2021			
	Q1	Q4	Q3	Q2	Q1
Accounting assets vs. leverage ratio exposure					
1 Total consolidated assets as per published financial statements	366,888	355,795	354,040	350,742	343,637
2 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	9	(2)	22	20	14
3 Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference ⁽¹⁾	(78)	(114)	(65)	(65)	(65)
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⁾	3,217	2,252	3,420	5	3,859
6 Adjustment for securities financing transactions (i.e. repos and similar secured lending) ⁽²⁾	6,416	3,936	4,752	5,157	3,754
7 Adjustment for off-balance sheet items (i.e. conversion to credit equivalent amounts of off-balance sheet exposures)	30,971	30,477	30,357	29,568	27,716
8 Other adjustments	(39,648)	(41,184)	(47,596)	(45,689)	(44,902)
9 Leverage Ratio Exposure	367,775	351,160	344,930	339,738	334,013

(1) OSFI's October 2018 Leverage Requirements Guideline now allows for the exclusion of securitized exposures that meet the operational requirements for risk transference.

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

LR2 – Leverage Ratio Common Disclosure Template

(millions of Canadian dollars)

		2022	2021			
		Q1	Q4	Q3	Q2	Q1
Leverage ratio common disclosure						
On-balance sheet exposures						
1	On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral)	303,578	298,494	289,192	285,293	281,196
2	Gross-up for derivatives collateral provided where deducted from balance sheet assets pursuant to the operative accounting framework	–	–	–	–	–
3	(Deductions of receivables assets for cash variation margin provided in derivative transactions)	(3,422)	(4,620)	(3,696)	(3,946)	(3,088)
4	(Asset amounts deducted in determining Basel III Tier 1 capital)	(3,497)	(3,379)	(3,143)	(2,978)	(2,721)
5	Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of rows 1 to 4)	296,659	290,495	282,353	278,369	275,387
Derivative exposures						
6	Replacement cost associated with all derivative transactions (where applicable net of eligible cash variation margin and/or with bilateral netting)	5,867	6,437	5,898	3,998	4,811
7	Add-on amounts for PFE associated with all derivative transactions	12,666	12,282	12,767	11,278	11,913
8	(Exempted CCP leg of client-cleared trade exposures)	–	–	–	–	–
9	Adjusted effective notional amount of written credit derivatives	18	17	12	12	13
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	–	–	–	–	–
11	Total derivative exposures (sum of rows 6 to 10)	18,551	18,736	18,677	15,288	16,737
Securities financing transaction exposures						
12	Gross SFT assets (with no recognition of netting), after adjusting for sale accounting transactions	15,178	7,516	8,791	11,356	10,419
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(1,918)	(1,945)	(600)	(752)	(1,272)
14	CCR exposure for SFTs assets	8,334	5,881	5,352	5,909	5,026
15	Agent transaction exposures	–	–	–	–	–
16	Total securities financing transaction exposures (sum of rows 12 to 15)	21,594	11,452	13,543	16,513	14,173
Other off-balance sheet exposures						
17	Off-balance sheet exposure at gross notional amount	95,272	93,926	92,825	90,948	87,397
18	(Adjustments for conversion to credit equivalent amounts)	(64,301)	(63,449)	(62,468)	(61,380)	(59,681)
19	Off-balance sheet items (sum of rows 17 and 18)	30,971	30,477	30,357	29,568	27,716
Capital and Total Exposures						
20	Tier 1 capital	16,164	15,622	15,221	15,042	14,512
20a	Tier 1 Capital with transitional arrangements for ECL provisioning not applied	16,116	15,514	15,092	14,898	14,341
21	Total Exposures (sum of rows 5, 11, 16 and 19)	367,775	351,160	344,930	339,738	334,013
Leverage Ratio						
22	Basel III leverage ratio	4.4%	4.4%	4.4%	4.4%	4.3%
22a	Basel III leverage ratio with transitional arrangements for ECL provisioning not applied	4.4%	4.4%	4.4%	4.4%	4.3%

CR1 – Credit Quality of Assets⁽¹⁾

(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.

		Q1 2022							Q4 2021						
		a	b	c	d	e	f	g	a	b	c	d	e	f	g
		Gross carrying values ⁽²⁾ of		Allowances for credit losses ⁽⁴⁾	Of which ECL accounting provisions for credit losses on SA exposures		Of which ECL accounting provisions for credit losses on IRB exposures	Net values (a+b-c)	Gross carrying values ⁽²⁾ of		Allowances for credit losses ⁽⁴⁾	Of which ECL accounting provisions for credit losses on SA exposures		Of which ECL accounting provisions for credit losses on IRB exposures	Net values (a+b-c)
		Default exposures ⁽³⁾	Non-default exposures		Allocated in regulatory category of Specific	Allocated in regulatory category of General			Default exposures ⁽³⁾	Non-default exposures		Allocated in regulatory category of Specific	Allocated in regulatory category of General		
1	Loans ⁽⁵⁾	596	197,853	935	30	22	883	197,514	653	188,199	1,003	25	10	968	187,849
2	Debt Securities	–	27,061	6	–	2	4	27,055	–	28,868	4	–	1	3	28,864
3	Off-balance-sheet commitments ⁽⁶⁾	12	92,247	145	–	6	139	92,114	12	91,049	162	–	6	156	90,899
4	Total	608	317,161	1,086	30	30	1,026	316,683	665	308,116	1,169	25	17	1,127	307,612

		Q3 2021							Q2 2021						
		a	b	c	d	e	f	g	a	b	c	d	e	f	g
		Gross carrying values ⁽²⁾ of		Allowances for credit losses ⁽⁴⁾	Of which ECL accounting provisions for credit losses on SA exposures		Of which ECL accounting provisions for credit losses on IRB exposures	Net values (a+b-c)	Gross carrying values ⁽²⁾ of		Allowances for credit losses ⁽⁴⁾	Of which ECL accounting provisions for credit losses on SA exposures		Of which ECL accounting provisions for credit losses on IRB exposures	Net values (a+b-c)
		Default exposures ⁽³⁾	Non-default exposures		Allocated in regulatory category of Specific	Allocated in regulatory category of General			Default exposures ⁽³⁾	Non-default exposures		Allocated in regulatory category of Specific	Allocated in regulatory category of General		
1	Loans ⁽⁵⁾	684	186,622	1,059	23	11	1,025	186,247	713	179,070	1,119	24	48	1,047	178,664
2	Debt Securities	–	30,523	3	–	1	2	30,520	–	30,352	2	–	1	1	30,350
3	Off-balance-sheet commitments ⁽⁶⁾	14	89,759	177	–	3	174	89,596	18	87,788	188	–	3	185	87,618
4	Total	698	306,904	1,239	23	15	1,201	306,363	731	297,210	1,309	24	52	1,233	296,632

(1) Excluding 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 Capital Adequacy Requirements (CAR) guideline.

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

(5) Including deposits with financial institutions.

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

CR2 – Changes in Stock of Defaulted Loans and Debt Securities

(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.

	Q1 2022	Q4 2021	Q3 2021	Q2 2021	Q1 2021
	a	a	a	a	a
1 Defaulted loans ⁽¹⁾ and debt securities at beginning	653	684	713	734	782
2 Loans and debt securities that have defaulted since the last reporting period	132	106	139	178	169
3 Returned to non-defaulted status since the last reporting period	(23)	(19)	(23)	(37)	(68)
4 Amounts written off	(94)	(38)	(39)	(48)	(67)
5 Other changes ⁽²⁾	(72)	(80)	(106)	(114)	(82)
6 Defaulted loans⁽¹⁾ and debt securities at end	596	653	684	713	734

(1) Including deposits with financial institutions.

(2) Including net repayments and foreign exchange movements.

CR3 – Credit Risk Mitigation Techniques – Overview

(millions of Canadian dollars)

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

		Q1 2022					Q4 2021				
		a	b1	b	d	f	a	b1	b	d	f
		Exposures unsecured: carrying amount ⁽¹⁾	Exposures subject to risk mitigation techniques ⁽¹⁾	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives	Exposures unsecured: carrying amount ⁽¹⁾	Exposures subject to risk mitigation techniques ⁽¹⁾	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
1	Loans ⁽²⁾	121,524	76,895	69,858	6,801	–	111,619	77,205	69,360	7,500	–
2	Debt securities	27,061	–	–	–	–	28,868	–	–	–	–
3	Total	148,585	76,895	69,858	6,801	–	140,487	77,205	69,360	7,500	–
4	Of which defaulted	425	152	102	46	–	525	157	112	42	–

		Q3 2021					Q2 2021				
		b1	b	d	f	a	b1	b	d	f	
		Exposures unsecured: carrying amount ⁽¹⁾	Exposures subject to risk mitigation techniques ⁽¹⁾	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives	Exposures unsecured: carrying amount ⁽¹⁾	Exposures subject to risk mitigation techniques ⁽¹⁾	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
1	Loans ⁽²⁾	113,338	73,942	66,764	6,905	–	109,596	70,162	63,546	6,413	–
2	Debt securities	30,523	–	–	–	–	30,352	–	–	–	–
3	Total	143,861	73,942	66,764	6,905	–	139,948	70,162	63,546	6,413	–
4	Of which defaulted	478	185	133	49	–	487	198	148	47	–

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

(2) Including deposits with financial institutions.

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

(millions of Canadian dollars)

	2022						2021												
	Q1						Q4						Q3						
	EAD - Gross Exposure ⁽¹⁾																		
	Drawn	Undrawn commitments	Other	Repo-style transactions	Derivatives financial instruments	Total	Drawn	Undrawn commitments	Other	Repo-style transactions	Derivatives financial instruments	Total	Drawn	Undrawn commitments	Other	Repo-style transactions	Derivatives financial instruments	Total	
Non-Retail Portfolio																			
Agriculture	6,789	546	5	-	-	7,340	6,584	540	5	-	-	7,129	6,399	515	7	-	-	-	6,921
Oil & Gas and Pipelines	4,197	3,531	250	-	-	7,978	4,370	3,110	274	-	-	7,754	4,146	3,553	227	-	-	-	7,926
<i>Oil & Gas</i>	1,792	1,973	83	-	-	3,848	1,849	1,660	79	-	-	3,588	1,958	1,923	55	-	-	-	3,936
<i>Pipelines & Other</i>	2,405	1,558	167	-	-	4,130	2,521	1,450	195	-	-	4,166	2,188	1,630	172	-	-	-	3,990
Mining	394	1,507	192	-	191	2,284	473	1,477	197	-	160	2,307	473	1,326	198	-	-	141	2,138
Utilities	6,211	4,145	1,361	-	-	11,717	5,952	3,742	1,206	-	-	10,900	5,438	3,482	1,222	-	-	-	10,142
Construction Non-Real Estate ⁽²⁾	1,830	928	113	-	-	2,871	1,775	1,034	113	-	-	2,922	1,654	1,165	104	-	-	-	2,923
Manufacturing	5,435	2,729	244	-	-	8,408	5,248	2,632	317	-	-	8,197	5,223	2,482	321	-	-	-	8,026
Wholesale	2,498	1,125	56	-	-	3,679	2,506	1,031	56	-	-	3,593	2,847	1,061	51	-	-	-	3,959
Retail	2,949	1,389	50	-	-	4,388	2,833	1,433	42	-	-	4,308	2,940	1,485	41	-	-	-	4,466
Transportation	2,030	1,264	92	48	-	3,434	1,848	1,298	82	48	1	3,277	1,871	1,239	80	48	1	3,239	
Communications	1,594	2,067	321	-	-	3,982	1,369	2,212	934	-	-	4,515	1,262	2,074	937	-	-	-	4,273
Finance and Insurance	35,336	4,790	927	131,738	2,902	175,693	30,022	4,929	1,046	121,821	2,251	160,069	34,302	4,562	1,227	123,044	2,233	165,368	
Real Estate and Construction																			
Real Estate ⁽³⁾	17,720	4,317	305	-	-	22,342	16,924	4,347	292	-	-	21,563	17,274	4,561	283	-	-	-	22,118
Professional Services	1,729	1,055	296	-	-	3,080	1,599	1,134	300	-	-	3,033	1,561	1,096	291	-	-	-	2,948
Education & Health Care	3,866	1,731	11	9	-	5,617	3,871	1,728	11	3	-	5,613	3,903	1,605	12	6	-	5,526	
Other Services	5,971	2,121	919	51	27	9,089	5,991	2,053	407	1	-	8,452	6,255	1,896	446	28	-	8,625	
Government	30,026	1,348	5	38,336	294	70,009	30,461	1,373	5	33,339	291	65,469	31,051	1,416	5	30,954	238	63,664	
Other	12,227	89	884	739	13	13,952	11,314	53	830	1,552	-	13,749	10,566	174	847	1,881	-	13,468	
Total – Non-retail⁽⁴⁾	140,802	34,682	6,031	170,921	3,427	355,863	133,140	34,126	6,117	156,764	2,703	332,850	137,165	33,692	6,299	155,961	2,613	335,730	

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

(2) Including civil engineering loans, public-private partnership loans, and project finance loans.

(3) Including residential mortgages on dwellings of five or more units.

(4) Excluding SME retail exposure.

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

(millions of Canadian dollars)

	2021												2020						
	Q2						Q1						Q4						
	EAD - Gross Exposure ⁽¹⁾																		
	Drawn	Undrawn commitments	Other	Repo-style transactions	Derivatives financial instruments	Total	Drawn	Undrawn commitments	Other	Repo-style transactions	Derivatives financial instruments	Total	Drawn	Undrawn commitments	Other	Repo-style transactions	Derivatives financial instruments	Total	
Non-Retail Portfolio																			
Agriculture	6,213	499	6	-	-	6,718	6,100	446	4	-	-	6,550	5,924	448	3	-	-	6,375	
Oil & Gas and Pipelines	4,308	3,595	314	-	-	8,217	4,822	3,625	307	-	-	8,754	5,103	3,134	308	-	-	8,545	
<i>Oil & Gas</i>	2,116	1,978	138	-	-	4,232	2,327	1,811	145	-	-	4,283	2,561	1,692	158	-	-	4,411	
<i>Pipelines & Other</i>	2,192	1,617	176	-	-	3,985	2,495	1,814	162	-	-	4,471	2,542	1,442	150	-	-	4,134	
Mining	589	1,153	198	-	-	1,940	576	1,281	194	-	-	2,051	690	1,271	167	-	-	2,128	
Utilities	5,371	3,047	1,302	-	-	9,720	5,376	2,804	1,290	-	-	9,470	5,102	3,075	1,242	-	-	9,419	
Construction Non-Real Estate ⁽²⁾	1,452	1,071	107	-	-	2,630	1,369	1,117	102	-	-	2,588	1,297	1,500	71	-	-	2,868	
Manufacturing	5,056	2,617	311	-	-	7,984	5,272	2,588	338	-	-	8,198	5,457	2,671	376	-	-	8,504	
Wholesale	2,524	959	53	-	-	3,536	2,185	1,057	51	-	-	3,293	2,128	995	46	-	-	3,169	
Retail	2,748	1,519	41	-	-	4,308	2,835	1,534	42	-	-	4,411	2,828	1,608	43	-	-	4,479	
Transportation	1,669	1,151	83	37	-	2,940	1,498	1,109	83	56	-	2,746	1,563	1,104	77	71	-	2,815	
Communications	1,129	1,999	705	-	-	3,833	1,246	972	196	-	-	2,414	1,118	961	205	-	-	2,284	
Finance and Insurance	32,560	4,487	1,154	120,908	2,101	161,210	33,165	4,543	1,143	119,056	2,782	160,689	28,678	4,123	1,029	111,002	2,337	147,169	
Real Estate and Construction																			
Real Estate ⁽³⁾	15,752	4,592	275	-	-	20,619	14,188	4,259	262	-	-	18,709	13,418	3,506	256	-	-	17,180	
Professional Services	1,504	1,088	289	-	-	2,881	1,366	1,408	260	-	-	3,034	1,243	1,152	273	-	-	2,668	
Education & Health Care	3,682	1,893	11	19	-	5,605	3,795	1,601	11	18	-	5,425	3,581	1,523	10	3	-	5,117	
Other Services	6,248	1,640	462	13	-	8,363	6,104	1,914	439	3	-	8,460	6,180	1,755	454	-	-	8,389	
Government	32,425	1,633	6	32,324	210	66,598	29,467	1,435	5	40,243	163	71,313	29,873	1,426	5	33,186	178	64,668	
Other	10,258	-	783	1,632	1	12,674	10,490	14	634	1,280	1	12,419	9,974	41	823	1,855	16	11,709	
Total – Non-retail⁽⁴⁾	133,488	32,943	6,100	154,933	2,312	329,776	129,854	31,707	5,361	160,656	2,946	330,524	124,157	30,293	5,388	145,117	2,531	307,486	

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

(2) Including civil engineering loans, public-private partnership loans, and project finance loans.

(3) Including residential mortgages on dwellings of five or more units.

(4) Excluding SME retail exposure.

Net International Credit Risk Exposure at Default⁽¹⁾

(millions of Canadian dollars)

	2022						2021					
	Q1						Q4					
	Drawn	Undrawn commitments	Repo-style transactions ⁽²⁾	Derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total	Drawn	Undrawn commitments	Repo-style transactions ⁽²⁾	Derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total
Europe ⁽⁴⁾	530	133	865	458	188	2,174	515	160	944	1,302	348	3,269
United Kingdom	926	100	754	2,321	3	4,104	1,501	111	759	1,878	2	4,251
Latin America	164	58	40	32	-	294	144	16	70	33	-	263
Asia	2,686	372	6,980	58	16	10,112	2,495	338	5,540	29	12	8,414
Other	81	9	252	42	3	387	97	2	232	29	3	363
Total⁽⁵⁾	4,387	672	8,891	2,911	210	17,071	4,752	627	7,545	3,271	365	16,560

	2021						2021					
	Q3						Q2					
	Drawn	Undrawn commitments	Repo-style transactions ⁽²⁾	Derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total	Drawn	Undrawn commitments	Repo-style transactions ⁽²⁾	Derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total
Europe ⁽⁴⁾	337	193	643	645	502	2,320	286	244	635	632	374	2,171
United Kingdom	1,431	113	780	2,429	3	4,756	1,834	113	996	2,056	3	5,002
Latin America	249	69	77	21	-	416	233	56	120	43	-	452
Asia	2,400	279	5,322	16	15	8,032	2,436	238	5,365	44	15	8,098
Other	95	6	265	31	3	400	85	2	185	70	11	353
Total⁽⁵⁾	4,512	660	7,087	3,142	523	15,924	4,874	653	7,301	2,845	403	16,076

(1) Exposure at default is the expected net exposure upon the default of an obligor. This amount is before any specific allowance or partial write-offs. For repo-style transactions and derivatives, the exposure presented is calculated as per the permitted regulatory approaches. These tables cover non-retail portfolios and exclude Equity exposures.

(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) Excluding United Kingdom.

(5) 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⁾

(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.

		Q1 2022						Q4 2021					
		a	b	c	d	e	f	a	b	c	d	e	f
		Exposures before CCF and CRM		Exposures post-CCF and CRM		RWA	RWA density	Exposures before CCF and CRM		Exposures post-CCF and CRM		RWA	RWA density
Assets classes		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount			On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount		
1	Sovereigns and their central banks	2,408	817	2,408	–	1,322	55%	2,483	835	2,483	–	1,806	73%
2	Non-central government public sector entities	–	–	–	–	–	0%	–	–	–	–	–	0%
3	Multilateral development banks	366	–	366	–	–	0%	260	–	260	–	–	0%
4	Financial institutions	1,078	4,769	1,078	243	788	60%	888	4,782	888	257	675	59%
5	Securities firms	–	–	–	–	–	0%	–	–	–	–	–	0%
6	Corporates	8,577	639	8,577	141	4,967	57%	7,678	601	7,678	154	4,335	55%
7	Regulatory retail portfolios	5,677	272	5,677	91	3,667	64%	5,214	244	5,214	74	3,280	62%
8	Secured by residential property	7,164	165	7,164	52	2,631	36%	6,817	157	6,817	50	2,440	36%
9	Secured by commercial real estate	231	–	231	–	231	100%	207	–	207	–	207	100%
10	Equity	–	–	–	–	–	0%	–	–	–	–	–	0%
11	Past-due loans	66	–	66	–	54	82%	52	2	52	–	43	83%
12	Higher-risk categories	42	–	42	–	63	150%	4	–	4	–	6	150%
13	Other assets ⁽²⁾	4,974	–	4,974	–	3,561	72%	4,808	–	4,808	–	3,192	66%
14	Total	30,583	6,662	30,583	527	17,284	56%	28,411	6,621	28,411	535	15,984	55%

		Q3 2021						Q2 2021					
		a	b	c	d	e	f	a	b	c	d	e	f
		Exposures before CCF and CRM		Exposures post-CCF and CRM		RWA	RWA density	Exposures before CCF and CRM		Exposures post-CCF and CRM		RWA	RWA density
Assets classes		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount			On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount		
1	Sovereigns and their central banks	2,237	81	2,237	–	1,680	75%	2,372	82	2,372	–	1,771	75%
2	Non-central government public sector entities	–	–	–	–	–	0%	–	–	–	–	–	0%
3	Multilateral development banks	272	–	272	–	–	0%	185	–	185	–	–	0%
4	Financial institutions	865	4,937	865	411	631	49%	837	4,985	837	430	653	52%
5	Securities firms	–	–	–	–	–	0%	–	–	–	–	–	0%
6	Corporates	7,470	529	7,470	135	4,176	55%	7,148	458	7,148	82	3,954	55%
7	Regulatory retail portfolios	4,778	184	4,778	51	2,884	60%	4,403	86	4,403	25	2,555	58%
8	Secured by residential property	6,569	145	6,569	43	2,304	35%	6,018	145	6,018	46	2,195	36%
9	Secured by commercial real estate	221	–	221	–	221	100%	185	–	185	–	185	100%
10	Equity	–	–	–	–	–	0%	–	–	–	–	–	0%
11	Past-due loans	48	2	48	–	35	73%	43	1	43	–	32	74%
12	Higher-risk categories	4	–	4	–	6	150%	–	–	–	–	–	0%
13	Other assets ⁽²⁾	4,442	–	4,442	–	2,851	64%	4,084	–	4,084	–	2,847	70%
14	Total	26,906	5,878	26,906	640	14,788	54%	25,275	5,757	25,275	583	14,192	55%

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

(2) For completeness purposes, row 13 "Other assets" is populated with all other assets except exposures that are subject to direct capital deductions, those that are treated in the off-balance sheet calculations and exposures below the threshold for deduction.

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

(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).

		Q1 2022										Q4 2021									
		a	b	c	d	e	f	g	h	i	j	a	b	c	d	e	f	g	h	i	j
Risk weight		0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾	0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾
Asset classes		0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾	0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾
1	Sovereigns and their central banks	1,087	-	-	-	-	-	1,321	-	-	2,408	677	-	-	-	-	-	1,806	-	-	2,483
2	Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Multilateral development banks	366	-	-	-	-	-	-	-	-	366	260	-	-	-	-	-	-	-	-	260
4	Financial institutions	158	-	459	-	13	-	691	-	-	1,321	133	-	414	-	11	-	587	-	-	1,145
5	Securities firms	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Corporates	3,751	-	-	-	-	-	4,967	-	-	8,718	3,497	-	-	-	-	-	4,335	-	-	7,832
7	Regulatory retail portfolios	879	-	-	-	-	4,889	-	-	-	5,768	915	-	-	-	4,373	-	-	-	-	5,288
8	Secured by residential property	630	-	-	5,760	30	785	11	-	-	7,216	776	-	-	5,309	30	740	12	-	-	6,867
9	Secured by commercial real estate	-	-	-	-	-	-	231	-	-	231	-	-	-	-	-	-	207	-	-	207
10	Equity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Past-due loans	12	-	-	-	-	-	54	-	-	66	10	-	-	-	-	-	39	3	-	52
12	Higher-risk categories	-	-	-	-	-	-	-	42	-	42	-	-	-	-	-	-	-	4	-	4
13	Other assets ⁽³⁾	1,199	-	268	-	-	-	3,507	-	-	4,974	1,375	-	302	-	-	-	3,131	-	-	4,808
14	Total	8,082	-	727	5,760	43	5,674	10,782	42	-	31,110	7,643	-	716	5,309	41	5,113	10,117	7	-	28,946

		Q3 2021										Q2 2021									
		a	b	c	d	e	f	g	h	i	j	a	b	c	d	e	f	g	h	i	j
Risk weight		0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾	0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾
Asset classes		0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾	0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount ⁽²⁾
1	Sovereigns and their central banks	557	-	-	-	-	-	1,680	-	-	2,237	601	-	-	-	-	-	1,771	-	-	2,372
2	Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Multilateral development banks	272	-	-	-	-	-	-	-	-	272	185	-	-	-	-	-	-	-	-	185
4	Financial institutions	120	-	649	-	11	-	496	-	-	1,276	53	-	693	-	18	-	499	4	-	1,267
5	Securities firms	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Corporates	3,428	-	-	-	-	-	4,177	-	-	7,605	3,275	-	-	-	-	-	3,955	-	-	7,230
7	Regulatory retail portfolios	984	-	-	-	-	3,845	-	-	-	4,829	1,021	-	-	-	3,407	-	-	-	-	4,428
8	Secured by residential property	879	-	-	4,977	32	713	11	-	-	6,612	689	-	-	4,579	32	751	13	-	-	6,064
9	Secured by commercial real estate	-	-	-	-	-	-	221	-	-	221	-	-	-	-	-	-	185	-	-	185
10	Equity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Past-due loans	13	-	-	-	-	-	34	1	-	48	12	-	-	-	-	-	30	1	-	43
12	Higher-risk categories	-	-	-	-	-	-	-	4	-	4	-	-	-	-	-	-	-	-	-	-
13	Other assets ⁽³⁾	1,352	-	301	-	-	-	2,789	-	-	4,442	1,218	-	59	-	-	-	2,805	-	2	4,084
14	Total	7,605	-	950	4,977	43	4,558	9,408	5	-	27,546	7,054	-	752	4,579	50	4,158	9,258	5	2	25,858

(1) Excluding items subject to securitization and counterparty credit risk frameworks. In the wholesale portfolio, for sovereign and banks asset classes, risk weights are based on external credit ratings issued by independent rating agencies (Moody's, Standard & Poor's, Fitch or DBRS) approved by our supervisor, OSFI.

(2) Post-CCF and Post-CRM.

(3) For completeness purposes, row 13 "Other assets" is populated with all other assets except exposures that are subject to direct capital deductions, those that are treated in the off-balance sheet calculations and exposures below the threshold for deduction.

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

(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.

Q1 2022												
	a	b	c	d	e	f	g	h	i	j	k	l
	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
PD scale ⁽¹⁾												
Residential Mortgages – insured	0.00 to < 0.15	1,039	–	0%	1,039	0.07%	55,606	6.5%	14	1.3%	–	–
	0.15 to < 0.25	266	–	0%	266	0.19%	13,175	6.9%	8	2.9%	–	–
	0.25 to < 0.50	378	–	0%	378	0.36%	16,797	5.1%	12	3.3%	–	–
	0.50 to < 0.75	196	–	0%	196	0.61%	7,263	4.4%	8	4.1%	–	–
	0.75 to < 2.50	306	–	0%	306	1.25%	10,013	3.6%	16	5.3%	–	–
	2.50 to < 10.00	70	–	0%	70	4.61%	2,136	3.1%	7	10.0%	–	–
	10.00 to < 100.00	33	–	0%	33	29.68%	786	2.8%	5	16.4%	–	–
	100.00 (Default)	22	–	0%	22	100.00%	339	2.9%	2	6.9%	1	–
Sub-total	2,310	–	0%	2,310	1.86%	106,115	5.5%		72	3.1%	1	4
Residential Mortgages and HELOCs – uninsured	0.00 to < 0.15	33,387	17,154	49%	41,872	0.07%	225,076	19.0%	1,443	3.4%	5	–
	0.15 to < 0.25	8,864	1,456	66%	9,828	0.19%	35,547	20.2%	836	8.5%	4	–
	0.25 to < 0.50	9,089	1,456	73%	10,153	0.34%	32,911	21.0%	1,314	12.9%	7	–
	0.50 to < 0.75	2,383	224	72%	2,544	0.60%	9,055	21.7%	514	20.2%	3	–
	0.75 to < 2.50	2,770	200	74%	2,917	1.10%	10,403	21.1%	848	29.1%	7	–
	2.50 to < 10.00	358	23	62%	372	4.47%	2,139	19.4%	229	61.6%	4	–
	10.00 to < 100.00	114	1	164%	115	25.87%	711	20.2%	133	116.2%	6	–
	100.00 (Default)	58	3	93%	60	100.00%	492	19.2%	92	151.7%	5	–
Sub-total	57,023	20,517	53%	67,861	0.35%	316,334	19.6%		5,409	8.0%	41	45
Qualifying revolving retail	0.00 to < 0.15	668	6,611	75%	5,626	0.05%	918,383	78.8%	152	2.7%	2	–
	0.15 to < 0.25	195	515	87%	643	0.20%	202,634	84.6%	63	9.7%	1	–
	0.25 to < 0.50	276	317	82%	536	0.36%	119,194	79.7%	76	14.1%	2	–
	0.50 to < 0.75	197	214	86%	381	0.64%	61,013	74.3%	81	21.3%	2	–
	0.75 to < 2.50	464	206	92%	654	1.42%	190,703	81.6%	281	43.1%	8	–
	2.50 to < 10.00	281	69	110%	357	4.46%	196,411	84.7%	352	98.7%	15	–
	10.00 to < 100.00	45	8	80%	51	18.89%	30,131	85.6%	113	222.2%	8	–
	100.00 (Default)	12	–	34%	12	100.00%	3,286	70.8%	7	57.1%	8	–
Sub-total	2,138	7,940	77%	8,260	0.67%	1,721,755	79.6%		1,125	13.6%	46	201
Other retail	0.00 to < 0.15	1,967	2,483	63%	3,538	0.06%	128,104	51.2%	324	9.2%	1	–
	0.15 to < 0.25	937	406	62%	1,189	0.20%	52,677	52.3%	273	23.0%	1	–
	0.25 to < 0.50	1,438	368	63%	1,669	0.37%	74,955	52.4%	551	33.0%	3	–
	0.50 to < 0.75	1,248	284	81%	1,478	0.64%	58,070	54.8%	706	47.8%	5	–
	0.75 to < 2.50	3,419	241	70%	3,587	1.35%	186,889	52.5%	2,219	61.8%	26	–
	2.50 to < 10.00	968	71	69%	1,016	4.00%	55,774	51.1%	788	77.5%	21	–
	10.00 to < 100.00	233	13	52%	240	24.09%	10,963	53.2%	297	123.8%	30	–
	100.00 (Default)	82	7	40%	84	100.00%	6,827	52.7%	55	64.8%	52	–
Sub-total	10,292	3,873	65%	12,801	1.96%	574,259	52.3%		5,213	40.7%	139	163

(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-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 including 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)

(millions of Canadian dollars)

Q1 2022													
		a	b	c	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	2,518	9,318	88%	9,054	0.09%	786	46.0%	2.38	2,395	26.5%	4	
	0.15 to < 0.25	13,690	16,430	87%	26,039	0.20%	3,135	37.1%	2.32	8,217	31.6%	19	
	0.25 to < 0.50	11,259	7,490	91%	16,995	0.36%	2,554	36.3%	2.49	6,959	41.0%	22	
	0.50 to < 0.75	12,405	4,818	91%	16,192	0.56%	2,478	35.2%	2.18	7,541	46.6%	32	
	0.75 to < 2.50	20,598	6,640	91%	24,890	1.13%	6,389	33.5%	2.12	14,557	58.5%	93	
	2.50 to < 10.00	3,804	851	85%	4,552	4.31%	982	33.7%	1.54	4,048	88.9%	66	
	10.00 to < 100.00	135	48	58%	169	17.80%	55	38.9%	1.06	282	166.9%	11	
	100.00 (Default)	410	51	29%	455	100.00%	187	38.0%	1.23	471	103.5%	196	
	Sub-total	64,819	45,646	89%	98,346	1.19%	16,566	36.4%	2.24	44,470	45.2%	443	603
Sovereign	0.00 to < 0.15	57,968	7,131	98%	64,209	0.01%	630	9.1%	2.05	708	1.1%	1	
	0.15 to < 0.25	8	-	0%	7	0.21%	1	14.5%	1.00	1	14.3%	-	
	0.25 to < 0.50	-	-	0%	-	0%	-	0%	-	-	0%	-	
	0.50 to < 0.75	-	-	0%	-	0%	-	0%	-	-	0%	-	
	0.75 to < 2.50	-	-	0%	-	0%	-	0%	-	-	0%	-	
	2.50 to < 10.00	6	51	92%	51	8.62%	2	16.7%	1.00	33	64.7%	1	
	10.00 to < 100.00	-	-	0%	-	0%	-	0%	-	-	0%	-	
	100.00 (Default)	-	-	0%	-	0%	-	0%	-	-	0%	-	
	Sub-total	57,982	7,182	98%	64,267	0.02%	633	9.1%	2.05	742	1.2%	2	3
Financial institutions	0.00 to < 0.15	3,717	397	6%	4,127	0.05%	62	46.7%	1.39	734	17.8%	1	
	0.15 to < 0.25	225	32	0%	257	0.17%	29	49.9%	1.16	107	41.6%	-	
	0.25 to < 0.50	19	113	100%	132	0.36%	6	24.8%	1.28	41	31.1%	-	
	0.50 to < 0.75	11	2	0%	13	0.56%	9	42.9%	1.00	10	76.9%	-	
	0.75 to < 2.50	640	6	100%	1,281	1.83%	12	11.6%	2.40	397	31.0%	3	
	2.50 to < 10.00	-	-	0%	-	3.38%	2	30.0%	1.00	-	0%	-	
	10.00 to < 100.00	-	-	0%	-	0%	-	0%	-	-	0%	-	
	100.00 (Default)	-	-	0%	-	0%	-	0%	-	-	0%	-	
	Sub-total	4,612	550	26%	5,810	0.46%	120	38.6%	1.60	1,289	22.2%	4	7
Total (all portfolio)	199,176	85,708	76%	259,655	0.69%	2,735,782	27.3%	2.00	58,320	22.5%	676	1,026	

(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-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 including 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)

(millions of Canadian dollars)

Q4 2021												
	a	b	c	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
Residential Mortgages – insured												
0.00 to < 0.15	1,567	–	0%	1,568	0.08%	56,924	7.0%		24	1.6%	–	
0.15 to < 0.25	598	–	0%	598	0.19%	13,587	7.9%		20	3.3%	–	
0.25 to < 0.50	780	–	0%	780	0.36%	16,995	6.0%		30	3.9%	–	
0.50 to < 0.75	468	–	0%	468	0.61%	7,604	4.4%		19	4.1%	–	
0.75 to < 2.50	738	–	0%	738	1.22%	10,533	3.7%		40	5.4%	–	
2.50 to < 10.00	124	–	0%	124	4.44%	2,233	3.0%		12	9.4%	–	
10.00 to < 100.00	41	–	0%	41	26.98%	797	2.8%		7	16.1%	–	
100.00 (Default)	24	–	0%	24	100.00%	349	3.0%		4	14.7%	2	
Sub-total	4,340	–	0%	4,341	1.34%	109,022	5.9%		156	3.6%	2	4
Residential Mortgages and HELOCs – uninsured												
0.00 to < 0.15	32,757	16,748	50%	41,062	0.07%	223,803	19.0%		1,404	3.4%	5	
0.15 to < 0.25	8,576	1,390	67%	9,501	0.19%	34,977	20.1%		805	8.5%	4	
0.25 to < 0.50	8,635	1,357	73%	9,626	0.34%	31,980	20.9%		1,242	12.9%	7	
0.50 to < 0.75	2,327	218	72%	2,483	0.60%	9,033	21.5%		497	20.0%	3	
0.75 to < 2.50	2,689	181	72%	2,819	1.10%	10,294	21.2%		821	29.1%	6	
2.50 to < 10.00	396	28	64%	414	4.45%	2,243	20.0%		265	63.9%	4	
10.00 to < 100.00	115	1	129%	116	24.18%	722	20.0%		133	114.7%	6	
100.00 (Default)	64	2	77%	66	100.00%	486	20.3%		117	177.7%	5	
Sub-total	55,559	19,925	53%	66,087	0.36%	313,538	19.6%		5,284	8.0%	40	48
Qualifying revolving retail												
0.00 to < 0.15	818	6,711	75%	5,863	0.05%	895,932	79.2%		156	2.7%	2	
0.15 to < 0.25	177	584	88%	694	0.20%	222,337	85.7%		69	9.9%	1	
0.25 to < 0.50	254	346	82%	539	0.35%	124,348	80.8%		77	14.3%	2	
0.50 to < 0.75	180	177	89%	337	0.63%	60,117	75.5%		72	21.4%	2	
0.75 to < 2.50	499	210	93%	694	1.42%	194,991	81.9%		300	43.4%	8	
2.50 to < 10.00	286	70	110%	363	4.39%	201,684	85.9%		360	99.1%	13	
10.00 to < 100.00	44	8	76%	50	19.60%	29,254	87.5%		115	229.8%	9	
100.00 (Default)	12	–	29%	12	100.00%	3,215	70.2%		6	45.0%	9	
Sub-total	2,270	8,106	78%	8,552	0.65%	1,731,878	80.2%		1,155	13.5%	46	201
Other retail												
0.00 to < 0.15	2,071	2,520	63%	3,669	0.06%	129,478	51.3%		319	8.7%	1	
0.15 to < 0.25	931	369	61%	1,156	0.20%	53,364	52.9%		269	23.3%	1	
0.25 to < 0.50	1,418	335	63%	1,628	0.37%	75,791	52.5%		538	33.1%	3	
0.50 to < 0.75	1,197	247	81%	1,397	0.63%	58,064	55.7%		677	48.5%	5	
0.75 to < 2.50	3,373	216	68%	3,518	1.35%	186,270	52.6%		2,179	61.9%	25	
2.50 to < 10.00	990	74	68%	1,040	4.00%	57,554	51.5%		812	78.1%	22	
10.00 to < 100.00	227	13	49%	234	23.12%	10,463	53.4%		285	121.9%	28	
100.00 (Default)	83	5	35%	85	100.00%	6,712	51.5%		65	76.6%	49	
Sub-total	10,290	3,779	64%	12,727	1.94%	577,696	52.5%		5,144	40.4%	134	163

(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-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 including 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)

(millions of Canadian dollars)

Q4 2021												
	a	b	c	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	2,389	9,666	84%	9,333	0.09%	754	46.1%	2.36	2,487	26.7%	4
	0.15 to < 0.25	13,870	16,252	88%	25,979	0.20%	3,105	37.4%	2.36	8,263	31.8%	19
	0.25 to < 0.50	10,948	6,587	90%	15,904	0.36%	2,569	36.9%	2.49	6,573	41.3%	21
	0.50 to < 0.75	11,560	4,976	89%	15,514	0.56%	2,513	34.7%	2.14	7,217	46.5%	30
	0.75 to < 2.50	19,581	6,595	91%	23,817	1.14%	6,313	34.3%	2.07	14,244	59.8%	93
	2.50 to < 10.00	3,668	870	78%	4,440	4.38%	1,033	33.9%	1.58	4,006	90.2%	67
	10.00 to < 100.00	118	44	83%	150	17.00%	56	38.4%	1.08	238	158.7%	9
	100.00 (Default)	563	42	19%	605	100.00%	187	38.5%	1.38	436	72.1%	284
	Sub-total	62,697	45,032	88%	95,742	1.36%	16,530	36.8%	2.23	43,464	45.4%	527
Sovereign	0.00 to < 0.15	52,559	7,159	99%	58,828	0.01%	628	8.7%	2.22	726	1.2%	1
	0.15 to < 0.25	–	–	0%	–	0%	–	0%	–	–	0%	–
	0.25 to < 0.50	–	–	0%	–	0%	–	0%	–	–	0%	–
	0.50 to < 0.75	–	–	0%	–	0%	–	0%	–	–	0%	–
	0.75 to < 2.50	–	–	0%	–	0%	–	0%	–	–	0%	–
	2.50 to < 10.00	20	37	89%	51	8.62%	2	15.0%	1.00	30	58.8%	1
	10.00 to < 100.00	–	–	0%	–	0%	–	0%	–	–	0%	–
	100.00 (Default)	–	–	0%	–	0%	–	0%	–	–	0%	–
	Sub-total	52,579	7,196	99%	58,879	0.02%	630	8.7%	2.22	756	1.3%	2
Financial institutions	0.00 to < 0.15	5,077	379	7%	5,468	0.05%	67	48.6%	1.32	1,021	18.7%	1
	0.15 to < 0.25	277	11	2%	289	0.16%	28	50.1%	1.09	115	39.8%	–
	0.25 to < 0.50	14	113	100%	126	0.36%	6	24.4%	1.40	38	30.2%	–
	0.50 to < 0.75	5	6	0%	11	0.56%	7	42.3%	1.00	7	63.6%	–
	0.75 to < 2.50	615	6	100%	930	1.78%	11	12.0%	2.36	297	31.9%	2
	2.50 to < 10.00	–	–	0%	–	8.61%	2	33.3%	1.00	–	0%	–
	10.00 to < 100.00	–	–	0%	–	0%	–	0%	–	–	0%	–
	100.00 (Default)	–	–	0%	–	0%	–	0%	–	–	0%	–
	Sub-total	5,988	515	28%	6,824	0.30%	121	43.2%	1.45	1,478	21.7%	3
Total (all portfolio)	193,723	84,553	76%	253,152	0.76%	2,749,415	27.7%	2.00	57,437	22.7%	754	1,127

(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-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 including 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 – Flow Statements for Risk-Weighted Assets (RWA) – Credit Risk

(millions of Canadian dollars)

The following table presents a flow statement explaining variations in the credit RWA.

		Q1 2022			Q4 2021		
		a			a		
		Non-counterparty credit risk	Of which determined under an IRB approach	Counterparty credit risk ⁽¹⁾	Non-counterparty credit risk	Of which determined under an IRB approach	Counterparty credit risk ⁽¹⁾
1	RWA at beginning	77,755	58,831	9,458	76,414	58,417	9,500
2	Book size ⁽²⁾	1,174	541	(172)	2,073	1,054	(129)
3	Book quality ⁽³⁾	(16)	(16)	(6)	(552)	(552)	122
4	Model updates ⁽⁴⁾	29	29	–	(7)	(7)	–
5	Methodology and policy ⁽⁵⁾	–	–	–	–	–	–
6	Acquisitions and disposals	–	–	–	–	–	–
7	Foreign exchange movements	562	254	105	(173)	(81)	(35)
8	Other ⁽⁶⁾	–	–	–	–	–	–
9	RWA at end	79,504	59,639	9,385	77,755	58,831	9,458

		Q3 2021			Q2 2021		
		a			a		
		Non-counterparty credit risk	Of which determined under an IRB approach	Counterparty credit risk ⁽¹⁾	Non-counterparty credit risk	Of which determined under an IRB approach	Counterparty credit risk ⁽¹⁾
1	RWA at beginning	73,792	56,503	8,722	72,853	55,826	8,247
2	Book size ⁽²⁾	2,905	2,376	840	2,130	1,461	526
3	Book quality ⁽³⁾	(595)	(595)	(125)	(433)	(433)	107
4	Model updates ⁽⁴⁾	–	–	–	–	–	–
5	Methodology and policy ⁽⁵⁾	–	–	–	–	–	–
6	Acquisitions and disposals	–	–	–	–	–	–
7	Foreign exchange movements	312	133	63	(758)	(351)	(158)
8	Other ⁽⁶⁾	–	–	–	–	–	–
9	RWA at end	76,414	58,417	9,500	73,792	56,503	8,722

(1) Counterparty credit risk is comprised of derivatives, SFTs, trades cleared through central counterparties, and CVA RWA.

(2) The Book size item reflects organic changes in book size and composition (including new loans and maturing loans). RWA movements attributable to book size include increases or decreases in exposures, measured by exposure at default, assuming a stable risk profile.

(3) The Book quality item is the Bank's best estimate of changes in book quality related to experience, such as underlying customer behaviour or demographics, including changes resulting from model recalibrations or realignments and also including risk mitigation factors.

(4) The Model updates item is used to reflect implementations of new models, changes in model scope, and any other change applied to address model malfunctions.

(5) The Methodology and policy item presents the impact of changes in calculation methods resulting from changes in regulatory policies as a result, for example, of new regulations.

(6) The Other item captures changes that cannot be attributed to any other category.

AIRB Credit Risk Exposure – Backtesting⁽¹⁾

(millions of Canadian dollars)

	2022						2021						
	Q1						Q4						
	PD average estimated (%)	PD actual (%)	LGD average estimated (%) ⁽²⁾	LGD actual (%) ⁽³⁾	EAD estimated (%) ⁽⁴⁾	EAD actual (%) ⁽⁴⁾	PD average estimated (%)	PD actual (%)	LGD average estimated (%) ⁽²⁾	LGD actual (%) ⁽³⁾	EAD estimated (%) ⁽⁴⁾	EAD actual (%) ⁽⁴⁾	
Retail Portfolio⁽⁵⁾													
Insured residential mortgages ⁽⁶⁾	0.78%	0.18%	2.64%	n.a.	n.a.	n.a.	1.01%	0.18%	2.64%	n.a.	n.a.	n.a.	n.a.
Uninsured residential mortgages incl. HELOCs ⁽⁷⁾	0.31%	0.11%	21.53%	5.44%	91.33%	85.96%	0.38%	0.11%	21.11%	4.26%	90.17%	84.67%	84.67%
Qualifying revolving retail	1.07%	0.73%	86.63%	77.97%	106.59%	100.56%	1.07%	0.73%	85.54%	76.13%	106.70%	100.65%	100.65%
Other retail	1.60%	0.70%	42.34%	28.70%	78.76%	69.80%	1.64%	0.76%	43.33%	29.99%	79.42%	69.73%	69.73%
Non-Retail Portfolio⁽⁸⁾													
Corporate	1.04%	0.24%	28.49%	15.89%	93.08%	67.48%	1.06%	0.32%	29.79%	14.62%	88.71%	74.24%	74.24%
Sovereign ⁽⁹⁾	0.06%	0.00%	11.80%	n.a.	88.30%	n.a.	0.07%	0.00%	11.80%	n.a.	88.30%	n.a.	n.a.
Financial Institutions ⁽⁹⁾	0.44%	0.00%	39.00%	n.a.	100.00%	n.a.	0.47%	0.00%	39.00%	n.a.	100.00%	n.a.	n.a.

	2021												
	Q3						Q2						
	PD average estimated (%)	PD actual (%)	LGD average estimated (%) ⁽²⁾	LGD actual (%) ⁽³⁾	EAD estimated (%) ⁽⁴⁾	EAD actual (%) ⁽⁴⁾	PD average estimated (%)	PD actual (%)	LGD average estimated (%) ⁽²⁾	LGD actual (%) ⁽³⁾	EAD estimated (%) ⁽⁴⁾	EAD actual (%) ⁽⁴⁾	
Retail Portfolio⁽⁵⁾													
Insured residential mortgages ⁽⁶⁾	1.11%	0.22%	2.64%	n.a.	n.a.	n.a.	0.95%	0.36%	2.64%	n.a.	n.a.	n.a.	n.a.
Uninsured residential mortgages incl. HELOCs ⁽⁷⁾	0.40%	0.12%	20.64%	3.09%	89.41%	86.10%	0.37%	0.19%	20.14%	2.99%	88.78%	84.84%	84.84%
Qualifying revolving retail	1.06%	0.77%	82.05%	71.03%	106.06%	101.01%	1.26%	0.82%	81.89%	71.40%	106.99%	102.03%	102.03%
Other retail	1.77%	0.82%	43.14%	26.75%	79.02%	69.24%	1.91%	0.91%	43.59%	26.39%	82.16%	69.94%	69.94%
Non-Retail Portfolio⁽⁸⁾													
Corporate	1.06%	0.35%	28.78%	16.46%	84.46%	75.66%	0.99%	0.48%	27.38%	17.34%	83.91%	68.67%	68.67%
Sovereign ⁽⁹⁾	0.06%	0.00%	11.80%	n.a.	88.30%	n.a.	0.06%	0.00%	11.80%	n.a.	88.30%	n.a.	n.a.
Financial Institutions ⁽⁹⁾	0.45%	0.00%	39.00%	n.a.	100.00%	n.a.	0.45%	0.00%	39.00%	n.a.	100.00%	n.a.	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 Q1 2022, estimated percentages are as of December 31, 2020 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

(millions of Canadian dollars)

	Q1 2022					Q4 2021				
	On-balance sheet amount	Off-balance sheet amount	RW	Exposure amount	RWA	On-balance sheet amount	Off-balance sheet amount	RW	Exposure amount	RWA
Equities under the materiality exemption	782	125	100%	845	896	825	133	100%	892	945

	Q3 2021					Q2 2021				
	On-balance sheet amount	Off-balance sheet amount	RW	Exposure amount	RWA	On-balance sheet amount	Off-balance sheet amount	RW	Exposure amount	RWA
Equities under the materiality exemption	894	130	100%	959	1,016	1,032	108	100%	1,086	1,151

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

(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.

		Q1 2022						Q4 2021					
		a	b	c	d	e	f	a	b	c	d	e	f
		Replacement cost	Potential future exposure	EEPE ⁽²⁾	Alpha used for computing regulatory EAD	EAD post-CRM	RWA	Replacement cost	Potential future exposure	EEPE ⁽²⁾	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
1	SA-CCR (for derivatives)	4,163	8,007		1.4	17,038	5,205	4,583	7,980		1.4	17,589	5,495
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					15,937	1,646					13,434	1,399
6	Total						6,851						6,894

		Q3 2021						Q2 2021					
		a	b	c	d	e	f	a	b	c	d	e	f
		Replacement cost	Potential future exposure	EEPE ⁽²⁾	Alpha used for computing regulatory EAD	EAD post-CRM	RWA	Replacement cost	Potential future exposure	EEPE ⁽²⁾	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
1	SA-CCR (for derivatives)	4,199	8,269		1.4	17,455	5,676	2,843	7,168		1.4	14,016	5,204
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					12,496	1,346					13,050	1,506
6	Total						7,022						6,710

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

(2) EEPE: Effective Expected Positive Exposure.

CCR2 – Credit Valuation Adjustment (CVA) Capital Charge

(millions of Canadian dollars)

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

		Q1 2022		Q4 2021		Q3 2021		Q2 2021		Q1 2021	
		a	b	a	b	a	b	a	b	a	b
		EAD post-CRM	RWA	EAD post-CRM	RWA	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	10,453	2,115	10,582	2,112	11,134	2,046	9,795	1,716	10,629	1,337
4	Total subject to the CVA capital charge	10,453	2,115	10,582	2,112	11,134	2,046	9,795	1,716	10,629	1,337

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

(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 weights (riskiness attributed according to standardised approach).

Regulatory portfolio	Risk weight	Q1 2022									Q4 2021								
		a	b	c	d	e	f	g	h	i	a	b	c	d	e	f	g	h	i
		0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Sovereigns		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-central government public sector entities (PSEs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multilateral development banks (MDBs)		39	-	-	-	-	-	-	-	39	4	-	-	-	-	-	-	-	4
Financial institutions		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Securities firms		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corporates		-	-	-	-	-	667	-	-	667	-	-	-	-	-	554	-	-	554
Regulatory retail portfolios		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other assets ⁽¹⁾		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		39	-	-	-	-	667	-	-	706	4	-	-	-	-	554	-	-	558

Regulatory portfolio	Risk weight	Q3 2021									Q2 2021								
		a	b	c	d	e	f	g	h	i	a	b	c	d	e	f	g	h	i
		0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Sovereigns		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-central government public sector entities (PSEs)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multilateral development banks (MDBs)		6	-	-	-	-	-	-	-	6	5	-	-	-	-	-	-	-	5
Financial institutions		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Securities firms		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corporates		-	-	-	-	-	663	-	-	663	-	-	-	-	-	608	-	-	608
Regulatory retail portfolios		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other assets ⁽¹⁾		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		6	-	-	-	-	663	-	-	669	5	-	-	-	-	608	-	-	613

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

CCR4 – IRB – CCR Exposures by Portfolio and PD Scale

(millions of Canadian dollars)

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

		Q1 2022						
PD scale ⁽¹⁾		a	b	c	d	e	f	g
		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	3,195	0.06%	562	46.5%	0.70	548	17.2%
	0.15 to < 0.25	3,165	0.19%	523	45.0%	1.32	1,123	35.5%
	0.25 to < 0.50	1,354	0.36%	256	43.5%	1.35	645	47.6%
	0.50 to < 0.75	2,011	0.56%	194	51.0%	3.61	460	22.9%
	0.75 to < 2.50	3,687	0.90%	732	42.6%	1.21	1,094	29.7%
	2.50 to < 10.00	261	3.62%	74	67.4%	1.15	462	177.0%
	10.00 to < 100.00	2	16.70%	6	45.9%	1.07	4	200.0%
	100.00 (Default)	2	100.00%	5	44.4%	1.00	1	50.0%
Sub-total	13,677	0.50%	2,352	45.9%	1.48	4,337	31.7%	
Sovereign	0.00 to < 0.15	11,570	0.03%	124	11.8%	0.99	188	1.6%
	0.15 to < 0.25	15	0.21%	1	13.1%	0.39	1	6.7%
	0.25 to < 0.50	49	0.36%	3	16.4%	0.05	6	12.2%
	0.50 to < 0.75	–	0%	–	0%	–	–	0%
	0.75 to < 2.50	–	0%	–	0%	–	–	0%
	2.50 to < 10.00	–	0%	–	0%	–	–	0%
	10.00 to < 100.00	–	0%	–	0%	–	–	0%
	100.00 (Default)	–	0%	–	0%	–	–	0%
Sub-total	11,634	0.03%	128	11.8%	0.99	195	1.7%	
Financial institutions	0.00 to < 0.15	7,421	0.07%	65	48.4%	0.74	1,272	17.1%
	0.15 to < 0.25	506	0.17%	40	49.7%	0.94	204	40.3%
	0.25 to < 0.50	127	0.36%	12	50.5%	0.14	59	46.5%
	0.50 to < 0.75	136	0.56%	13	45.2%	0.29	72	52.9%
	0.75 to < 2.50	62	1.03%	24	47.9%	0.13	45	72.6%
	2.50 to < 10.00	–	0%	–	0%	–	–	0%
	10.00 to < 100.00	–	0%	–	0%	–	–	0%
	100.00 (Default)	–	0%	–	0%	–	–	0%
Sub-total	8,252	0.10%	154	48.5%	0.73	1,652	20.0%	
Total (sum of portfolios)	33,563	0.24%	2,634	35.0%	1.13	6,184	18.4%	

(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)

(millions of Canadian dollars)

		Q4 2021						
	PD scale ⁽¹⁾	a	b	c	d	e	f	g
		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	2,285	0.06%	497	47.4%	0.83	428	18.7%
	0.15 to < 0.25	2,887	0.19%	506	46.2%	1.52	1,114	38.6%
	0.25 to < 0.50	1,257	0.36%	246	47.7%	1.41	669	53.2%
	0.50 to < 0.75	2,220	0.56%	192	50.9%	3.43	576	25.9%
	0.75 to < 2.50	4,147	0.91%	710	43.4%	1.23	1,243	30.0%
	2.50 to < 10.00	221	3.58%	71	68.5%	1.16	398	180.1%
	10.00 to < 100.00	4	14.00%	4	61.0%	1.05	11	275.0%
	100.00 (Default)	1	100.00%	6	40.4%	1.25	1	100.0%
	Sub-total	13,022	0.55%	2,232	46.8%	1.62	4,440	34.1%
Sovereign	0.00 to < 0.15	9,903	0.03%	126	11.8%	1.15	177	1.8%
	0.15 to < 0.25	69	0.21%	1	13.1%	-	5	7.2%
	0.25 to < 0.50	25	0%	2	24.7%	1.00	5	20.0%
	0.50 to < 0.75	-	0%	-	0%	-	-	0%
	0.75 to < 2.50	-	0%	-	0%	-	-	0%
	2.50 to < 10.00	-	8.62%	1	14.5%	1.00	-	100.0%
	10.00 to < 100.00	-	0%	-	0%	-	-	0%
	100.00 (Default)	-	0%	-	0%	-	-	0%
	Sub-total	9,997	0.03%	130	11.8%	1.14	187	1.9%
Financial institutions	0.00 to < 0.15	7,764	0.06%	68	49.3%	0.71	1,310	16.9%
	0.15 to < 0.25	695	0.17%	34	49.6%	0.52	233	33.5%
	0.25 to < 0.50	77	0.36%	11	50.2%	0.24	36	46.8%
	0.50 to < 0.75	161	0.56%	15	46.3%	0.39	89	55.3%
	0.75 to < 2.50	62	1.03%	22	48.0%	0.20	45	72.6%
	2.50 to < 10.00	-	0%	-	0%	-	-	0%
	10.00 to < 100.00	-	0%	-	0%	-	-	0%
	100.00 (Default)	-	0%	-	0%	-	-	0%
	Sub-total	8,759	0.09%	150	49.2%	0.68	1,713	19.6%
Total (sum of portfolios)		31,778	0.26%	2,512	36.0%	1.17	6,340	20.0%

(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

(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.

	Q1 2022						Q4 2021					
	a	b	c	d	e	f	a	b	c	d	e	f
	Collateral used in derivative transactions				Collateral used in SFTs		Collateral used in derivative transactions				Collateral used in SFTs	
	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received ⁽¹⁾	Fair value of posted collateral ⁽¹⁾	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received ⁽¹⁾	Fair value of posted collateral ⁽¹⁾
Segregated	Unsegregated	Segregated	Unsegregated			Segregated	Unsegregated	Segregated	Unsegregated			
Cash	–	11,205	–	2,993	29,241	20,502	–	9,539	–	4,021	23,600	15,215
Securities issued or guaranteed by												
Canadian government	24	346	–	417	15,153	14,817	4	516	–	708	15,250	11,788
Canadian provincial and municipal governments	213	282	250	116	15,462	15,042	209	127	–	219	11,127	15,877
U.S. Treasury, other U.S. agencies and other foreign governments	1,471	30	524	47	35,613	26,085	95	65	–	3	37,715	24,150
Other debt securities	597	29	1,294	1	2,043	1,499	66	29	–	–	2,053	663
Equity securities	–	–	–	–	56,428	82,024	–	–	–	–	51,017	77,073
Total	2,305	11,892	2,068	3,574	153,940	159,969	374	10,276	–	4,951	140,762	144,766

	Q3 2021						Q2 2021					
	a	b	c	d	e	f	a	b	c	d	e	f
	Collateral used in derivative transactions				Collateral used in SFTs		Collateral used in derivative transactions				Collateral used in SFTs	
	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received ⁽¹⁾	Fair value of posted collateral ⁽¹⁾	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received ⁽¹⁾	Fair value of posted collateral ⁽¹⁾
Segregated	Unsegregated	Segregated	Unsegregated			Segregated	Unsegregated	Segregated	Unsegregated			
Cash	–	9,891	–	2,274	28,099	11,643	–	10,190	–	2,598	29,331	13,311
Securities issued or guaranteed by												
Canadian government	18	566	–	756	14,239	14,359	–	712	–	607	7,861	10,431
Canadian provincial and municipal governments	218	152	–	75	7,047	10,563	–	225	–	279	11,484	15,172
U.S. Treasury, other U.S. agencies and other foreign governments	96	43	–	34	33,210	23,939	100	80	–	–	34,529	29,988
Other debt securities	–	35	–	–	1,594	470	–	34	–	–	1,423	499
Equity securities	–	–	–	–	50,116	76,892	–	–	–	–	53,835	71,755
Total	332	10,687	–	3,139	134,305	137,866	100	11,241	–	3,484	138,463	141,156

(1) Excluding collateral from repurchase agreements guaranteed by bearer deposit notes issued by the Bank and covered bonds issued by the Bank.

CCR6 – Credit Derivatives Exposures

(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.

	Q1 2022		Q4 2021		Q3 2021		Q2 2021		Q1 2021	
	a	b	a	b	a	b	a	b	a	b
	Protection purchased	Protection sold								
Notionals										
Credit default swaps										
Indices, singles names and other	2,755	1,371	2,565	638	2,417	246	2,091	545	2,234	358
Tranches on indices	-	-	-	-	-	-	-	-	-	-
Total return swaps	83	-	92	-	92	-	92	-	92	-
Credit options	-	-	-	-	-	-	-	-	-	-
Other credit derivatives	-	-	-	-	-	-	-	-	-	-
Total notionals	2,838	1,371	2,657	638	2,509	246	2,183	545	2,326	358
Fair values										
Positive fair value (asset)	2	29	9	17	7	8	11	16	2	8
Negative fair value (liability)	(54)	(1)	(64)	-	(64)	-	(57)	-	(55)	-

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

(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.

	Q1 2022		Q4 2021		Q3 2021		Q2 2021		Q1 2021	
	a	b	a	b	a	b	a	b	a	b
	EAD (post-CRM)	RWA								
1 Exposures to QCCPs (total)		419		452		432		296		232
2 Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	3,432	68	2,658	54	2,674	53	2,791	56	2,778	56
3 (i) OTC derivatives	400	8	386	8	228	5	210	4	227	5
4 (ii) Exchange-traded derivatives	2,386	47	1,738	35	1,880	37	1,795	36	2,385	48
5 (iii) Securities financing transactions	646	13	534	11	566	11	786	16	166	3
6 (iv) Netting sets where cross-product netting has been approved	-	-	-	-	-	-	-	-	-	-
7 Segregated initial margin	4,725		6,535		5,122		6,087		5,891	
8 Non-segregated initial margin	460	-	582	-	436	-	385	-	685	-
9 Pre-funded default fund contributions	646	351	520	398	722	379	642	240	590	176
10 Unfunded default fund contributions	-	-	-	-	-	-	-	-	-	-

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

SEC1 – Securitization Exposures in the Banking Book

(millions of Canadian dollars)

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

		Q1 2022								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	1,271	-	1,271	2,524	-	2,524	1,880	-	1,880
	Of which :									
2	Residential mortgages	-	-	-	1,759	-	1,759	29	-	29
3	Credit card	1,271	-	1,271	-	-	-	107	-	107
4	Other retail exposures	-	-	-	765	-	765	1,744	-	1,744
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	642	-	642	846	-	846
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	113	-	113	22	-	22
9	Lease and receivables	-	-	-	524	-	524	824	-	824
10	Other wholesale	-	-	-	5	-	5	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q4 2021								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	1,871	-	1,871	2,709	-	2,709	1,550	-	1,550
	Of which :									
2	Residential mortgages	-	-	-	2,037	-	2,037	47	-	47
3	Credit card	1,871	-	1,871	-	-	-	107	-	107
4	Other retail exposures	-	-	-	672	-	672	1,396	-	1,396
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	523	-	523	822	-	822
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	4	-	4
9	Lease and receivables	-	-	-	518	-	518	818	-	818
10	Other wholesale	-	-	-	5	-	5	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

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

(2) The Bank has no synthetic securitization exposure.

SEC1 – Securitization Exposures in the Banking Book (continued)

(millions of Canadian dollars)

		Q3 2021								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	1,071	-	1,071	2,888	-	2,888	907	-	907
	Of which :									
2	Residential mortgages	-	-	-	2,198	-	2,198	49	-	49
3	Credit card	1,071	-	1,071	-	-	-	107	-	107
4	Other retail exposures	-	-	-	690	-	690	751	-	751
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	534	-	534	637	-	637
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	4	-	4
9	Lease and receivables	-	-	-	528	-	528	633	-	633
10	Other wholesale	-	-	-	6	-	6	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q2 2021								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	1,071	-	1,071	3,033	-	3,033	813	-	813
	Of which :									
2	Residential mortgages	-	-	-	2,325	-	2,325	50	-	50
3	Credit card	1,071	-	1,071	-	-	-	12	-	12
4	Other retail exposures	-	-	-	708	-	708	751	-	751
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	376	-	376	647	-	647
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	4	-	4
9	Lease and receivables	-	-	-	369	-	369	643	-	643
10	Other wholesale	-	-	-	7	-	7	-	-	-
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

(millions of Canadian dollars)

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

		Q1 2022								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	-	-	-	13	-	13	12	-	12
	Of which :									
2	Residential mortgages	-	-	-	8	-	8	-	-	-
3	Credit card	-	-	-	-	-	-	12	-	12
4	Other retail exposures	-	-	-	5	-	5	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	4	-	4	17	-	17
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	4	-	4	5	-	5
10	Other wholesale	-	-	-	-	-	-	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q4 2021								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	-	-	-	18	-	18	24	-	24
	Of which :									
2	Residential mortgages	-	-	-	13	-	13	-	-	-
3	Credit card	-	-	-	-	-	-	24	-	24
4	Other retail exposures	-	-	-	5	-	5	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	4	-	4	27	-	27
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	4	-	4	15	-	15
10	Other wholesale	-	-	-	-	-	-	-	-	-
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 (continued)

(millions of Canadian dollars)

		Q3 2021								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	-	-	-	7	-	7	17	-	17
	Of which :									
2	Residential mortgages	-	-	-	5	-	5	-	-	-
3	Credit card	-	-	-	-	-	-	17	-	17
4	Other retail exposures	-	-	-	2	-	2	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	1	-	1	16	-	16
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	1	-	1	4	-	4
10	Other wholesale	-	-	-	-	-	-	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q2 2021								
		a	b	c	e	f	g	i	j	k
		Bank acts as originator			Bank acts as sponsor			Banks acts as investor ⁽¹⁾		
		Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total	Traditional	Synthetic ⁽²⁾	Sub-total
1	Retail	-	-	-	5	-	5	11	-	11
	Of which :									
2	Residential mortgages	-	-	-	4	-	4	-	-	-
3	Credit card	-	-	-	-	-	-	11	-	11
4	Other retail exposures	-	-	-	1	-	1	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	1	-	1	15	-	15
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	1	-	1	3	-	3
10	Other wholesale	-	-	-	-	-	-	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

(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

(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.

		Q1 2022																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)				Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap				
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	4,437	–	–	–	–	1,771	2,666	–	–	177	266	–	–	14	22	–	–
2	Traditional securitization	4,437	–	–	–	–	1,771	2,666	–	–	177	266	–	–	14	22	–	–
3	Of which securitization	4,437	–	–	–	–	1,771	2,666	–	–	177	266	–	–	14	22	–	–
4	Of which retail underlying	3,795	–	–	–	–	1,771	2,024	–	–	177	202	–	–	14	17	–	–
5	Of which wholesale	642	–	–	–	–	–	642	–	–	–	64	–	–	–	5	–	–
6	Of which re-securitization	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
7	Of which senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8	Of which non-senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		Q4 2021																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)				Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap				
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	5,103	–	–	–	–	2,371	2,732	–	–	237	273	–	–	19	22	–	–
2	Traditional securitization	5,103	–	–	–	–	2,371	2,732	–	–	237	273	–	–	19	22	–	–
3	Of which securitization	5,103	–	–	–	–	2,371	2,732	–	–	237	273	–	–	19	22	–	–
4	Of which retail underlying	4,580	–	–	–	–	2,371	2,209	–	–	237	221	–	–	19	18	–	–
5	Of which wholesale	523	–	–	–	–	–	523	–	–	–	52	–	–	–	4	–	–
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 3 – Securitization Exposures in the Banking Book and Associated Regulatory Capital Requirements⁽¹⁾ – Bank Acting as Originator or as Sponsor (continued)

(millions of Canadian dollars)

		Q3 2021																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)				Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap				
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	4,493	–	–	–	–	1,571	2,922	–	–	182	292	–	–	14	23	–	–
2	Traditional securitization	4,493	–	–	–	–	1,571	2,922	–	–	182	292	–	–	14	23	–	–
3	Of which securitization	4,493	–	–	–	–	1,571	2,922	–	–	182	292	–	–	14	23	–	–
4	Of which retail underlying	3,959	–	–	–	–	1,571	2,388	–	–	182	239	–	–	14	19	–	–
5	Of which wholesale	534	–	–	–	–	–	534	–	–	–	53	–	–	–	4	–	–
6	Of which re-securitization	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
7	Of which senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8	Of which non-senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		Q2 2021																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)				Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap				
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	4,480	–	–	–	–	1,446	3,034	–	–	163	303	–	–	13	25	–	–
2	Traditional securitization	4,480	–	–	–	–	1,446	3,034	–	–	163	303	–	–	13	25	–	–
3	Of which securitization	4,480	–	–	–	–	1,446	3,034	–	–	163	303	–	–	13	25	–	–
4	Of which retail underlying	4,104	–	–	–	–	1,446	2,658	–	–	163	265	–	–	13	22	–	–
5	Of which wholesale	376	–	–	–	–	–	376	–	–	–	38	–	–	–	3	–	–
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

(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.

		Q1 2022																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)					Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap			
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	2,666	27	33	–	–	29	685	2,012	–	4	80	316	–	–	6	25	–
2	Traditional securitization	2,666	27	33	–	–	29	685	2,012	–	4	80	316	–	–	6	25	–
3	Of which securitization	2,666	27	33	–	–	29	685	2,012	–	4	80	316	–	–	6	25	–
4	Of which retail underlying	1,861	19	–	–	–	29	63	1,788	–	4	15	264	–	–	1	21	–
5	Of which wholesale	805	8	33	–	–	–	622	224	–	–	65	52	–	–	5	4	–
6	Of which re-securitization	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
7	Of which senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8	Of which non-senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		Q4 2021																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)					Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap			
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	2,319	21	32	–	–	47	699	1,626	–	7	97	242	–	1	8	19	–
2	Traditional securitization	2,319	21	32	–	–	47	699	1,626	–	7	97	242	–	1	8	19	–
3	Of which securitization	2,319	21	32	–	–	47	699	1,626	–	7	97	242	–	1	8	19	–
4	Of which retail underlying	1,531	19	–	–	–	47	63	1,440	–	7	15	221	–	1	1	17	–
5	Of which wholesale	788	2	32	–	–	–	636	186	–	–	82	21	–	–	7	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 (continued)

(millions of Canadian dollars)

		Q3 2021																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)					Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap			
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	1,488	23	33	–	–	49	700	795	–	7	98	119	–	1	8	10	–
2	Traditional securitization	1,488	23	33	–	–	49	700	795	–	7	98	119	–	1	8	10	–
3	Of which securitization	1,488	23	33	–	–	49	700	795	–	7	98	119	–	1	8	10	–
4	Of which retail underlying	888	19	–	–	–	49	63	795	–	7	15	119	–	1	1	10	–
5	Of which wholesale	600	4	33	–	–	–	637	–	–	–	83	–	–	7	–	–	–
6	Of which re-securitization	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
7	Of which senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8	Of which non-senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		Q2 2021																
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
		Exposure values (by RW bands)					Exposure values (by regulatory approach)				RWA (by regulatory approach) ⁽²⁾				Capital charge after cap			
		≤ 20% RW	> 20% to 50% RW	>50% to 100% 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	1,395	22	43	–	–	51	709	700	–	8	104	105	–	1	8	8	–
2	Traditional securitization	1,395	22	43	–	–	51	709	700	–	8	104	105	–	1	8	8	–
3	Of which securitization	1,395	22	43	–	–	51	709	700	–	8	104	105	–	1	8	8	–
4	Of which retail underlying	795	18	–	–	–	51	62	700	–	8	15	105	–	1	1	8	–
5	Of which wholesale	600	4	43	–	–	–	647	–	–	–	89	–	–	7	–	–	–
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.