



Supplementary Regulatory Capital and Pillar 3 Disclosure

First Quarter 2021

(unaudited)

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This document is available via the Bank's web site: www.nbc.ca

Notes to users

- 1) This *Supplementary Regulatory Capital and Pillar 3 Disclosure* document is unaudited and should be read in conjunction with the 2020 Annual Report. All amounts are in millions of Canadian dollars, unless otherwise stated.
- 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 2021 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) For certain prescribed tables formats where line 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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CRC - Qualitative Disclosure Requirements Related to Credit Risk Mitigation Techniques	81 to 84, 155, 164 and 187		
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MR4 - Comparison of VaR Estimates with Gains/Losses			
		The Bank continues to apply the market risk disclosures under Basel 2.5 framework as permitted by OSFI.	

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 2021*.

(3) These pages are included in the *Supplementary Regulatory Capital and Pillar 3 Disclosure - Fourth Quarter 2020*.

KM2 – Key Metrics – TLAC Requirements⁽¹⁾

(millions of Canadian dollars)

		2021	2020			
		Q1	Q4	Q3	Q2	Q1
		a				
1	Total loss-absorbing capacity (TLAC) available	24,602	22,511	21,584	20,172	19,943
1a	TLAC available with transitional arrangements for ECL provisioning not applied	24,602	22,511	21,584	20,172	19,943
2	Total RWA at the level of the resolution group	97,183	94,808	94,814	92,755	86,206
3	TLAC ratio: TLAC as a percentage of RWA (row 1 / row 2) (%)	25.3%	23.7%	22.8%	21.7%	23.1%
3a	TLAC ratio: TLAC as a percentage of RWA (row 1a / row 2) (%) with transitional arrangements for ECL provisioning not applied	25.3%	23.7%	22.8%	21.7%	23.1%
4	Leverage ratio exposure measure at the level of the resolution group	334,013	321,038	309,001	306,386	319,709
5	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1 / row 4) (%)	7.4%	7.0%	7.0%	6.6%	6.2%
5a	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure with transitional arrangements for ECL provisioning not applied (row 1a / row 4) (%)	7.4%	7.0%	7.0%	6.6%	6.2%
6a	Does the subordination exemption in the antepenultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	yes	yes	yes	yes	yes
6b	Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	no	no	no	no	no
6c	If the capped subordination exemption applies, the amount of funding issued that ranks pari passu with Excluded Liabilities and that is 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 will be required starting November 1, 2021. Lines 1, 3 and 5 incorporate expected credit loss transitional relief provided by OSFI as announced on March 27, 2020. Lines 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 2021	Q4 2020	Q3 2020	Q2 2020	Q1 2020	Q1 2021
	a	b	b	b	b	c
	RWA ⁽¹⁾	Minimum capital requirement ⁽²⁾				
1 Credit risk (excluding counterparty credit risk)	68,566	67,348	66,240	66,385	60,155	5,485
2 Of which: standardised approach (SA)	14,150	14,229	13,630	14,065	12,095	1,132
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	54,416	53,119	52,610	52,320	48,060	4,353
6 Counterparty credit risk (CCR)	6,910	6,149	6,188	5,756	5,341	553
7 Of which: standardised approach for counterparty credit risk	5,256	4,702	4,704	4,714	4,035	420
8 Of which: internal model method (IMM)	-	-	-	-	-	-
9 Of which: other CCR	1,422	1,276	1,345	927	1,132	114
9a Of which: exposures to central counterparties	232	171	139	115	174	19
10 Credit valuation adjustment (CVA)	1,337	1,612	1,664	1,555	1,364	107
11 Equity positions under the simple risk weight approach⁽³⁾	1,111	1,060	1,074	1,017	1,060	89
12 Equity investments in funds – look-through approach	146	144	128	138	149	12
13 Equity investments in funds – mandate-based approach	-	-	-	-	-	-
14 Equity investments in funds – fall-back approach	-	-	-	-	-	-
15 Settlement risk	74	113	166	63	70	6
16 Securitization exposures in banking book	666	694	639	574	646	53
16a Of which: subject to the transitional arrangement	-	-	-	-	-	-
17 Of which: securitization IRB approach (SEC-IRBA)	153	172	176	67	73	12
18 Of which: securitization external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA)	408	442	383	427	493	33
19 Of which: securitization standardised approach (SEC-SA)	105	80	80	80	80	8
20 Market risk	3,489	3,497	4,724	4,121	4,397	279
21 Of which: standardised approach (SA)	1,017	1,031	1,025	1,095	916	81
22 Of which: internal model approach (IMA)	2,472	2,466	3,699	3,026	3,481	198
23 Capital charge for switch between trading book and banking book	-	-	-	-	-	-
24 Operational risk	12,594	12,326	12,146	11,977	11,664	1,008
25 Amounts below the thresholds for deduction (subject to 250% risk weight)	2,290	1,865	1,845	1,169	1,360	183
26 Floor adjustment	-	-	-	-	-	-
27 Total (1+6+10+11+12+13+14+15+16+20+23+24+25+26)	97,183	94,808	94,814	92,755	86,206	7,775

(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.

L1 – 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 tables columns a) and b) enable users to identify the differences between the scope of accounting consolidation and the scope of regulatory consolidation; and columns c) to g) break down how the amounts reported in banks' financial statements (rows) correspond to regulatory risk categories.

	Q1 2021						
	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	33,726	33,726	33,726	–	–	714	–
Securities							
At fair value through profit or loss	88,328	91,445	2,932	–	12	88,501	–
At fair value through other comprehensive income	11,156	20,780	20,676	–	104	–	–
At amortized cost	11,156	11,459	10,539	–	920	–	–
	110,640	123,684	34,147	–	1,036	88,501	–
Securities purchased under reverse repurchase agreements and securities borrowed	10,419	14,026	–	14,026	–	–	–
Loans and acceptances							
Residential mortgage	66,827	38,950	38,950	–	–	–	–
Personal	37,738	37,738	37,738	–	–	–	–
Credit card	1,846	1,846	717	–	1,071	–	58
Business and government	55,550	55,550	55,550	–	45	507	–
Customers' liability under acceptances	161,961	134,084	132,955	–	1,116	507	58
Allowances for credit losses	(1,149)	(573)	(573)	–	–	–	–
	167,690	140,389	139,260	–	1,116	507	58
Other							
Derivative financial instruments ⁽³⁾	12,877	13,561	–	13,561	–	12,735	–
Investments in associates and joint ventures	404	458	458	–	–	–	–
Premises and equipment	1,143	1,143	1,143	–	–	–	–
Goodwill	1,408	1,508	–	–	–	–	1,508
Intangible assets	1,446	1,222	–	–	–	–	1,222
Other assets	3,884	3,817	3,621	–	–	–	196
	21,162	21,709	5,222	13,561	–	12,735	2,926
Total assets	343,637	333,534	212,355	27,587	2,152	102,457	2,984
Liabilities							
Deposits	227,677	227,677	–	–	–	12,218	215,459
Other							
Acceptances	6,878	6,878	–	–	–	–	6,878
Obligations related to securities sold short	18,273	18,273	–	–	–	18,273	–
Obligations related to securities sold under repurchase agreements and securities loaned	31,282	38,828	–	38,828	–	–	–
Derivative financial instruments ⁽³⁾	14,010	14,890	–	14,890	–	13,543	–
Liabilities related to transferred receivables	22,664	22,664	–	–	–	–	22,664
Other liabilities	5,160	5,160	–	–	–	–	5,160
	98,267	106,693	–	53,718	–	31,816	34,702
Subordinated debt	773	773	–	–	–	–	773
Total liabilities	326,717	335,143	–	53,718	–	44,034	250,934

(1) The basis of consolidation used for financial accounting purposes, described in note 1 to the 2020 Annual Report audited consolidated financial statements, may differ from regulatory purposes. The regulatory consolidation does not include structured entities, where significant risk has been transferred to third parties nor subsidiaries and associates engaged in insurance activities.

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

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

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

(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 2021				
		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)	330,550	212,355	2,152	27,587	102,457
2	Liabilities carrying value amount under scope of regulatory consolidation (as per template LI1)	84,209	–	–	53,718	44,034
3	Total net amount under regulatory scope of consolidation	246,341	212,355	2,152	(26,131)	58,423
4	<i>Gross-up for repo-style transactions⁽²⁾</i>	77,656	–	–	77,656	–
5	<i>Potential future exposures (PFE)⁽³⁾</i>	12,781	–	–	12,781	–
6	<i>Off-balance sheet amounts⁽⁴⁾</i>	186,903	55,449	3,718	98,889	–
7	<i>Differences due to different netting rules, other than those already included in row 2 including collateral</i>	6,367	–	–	6,367	–
8	VaR amounts for Securities Financing Transactions (SFTs)	8,913	–	–	8,913	–
9	<i>Differences in valuations</i>	–	–	–	–	–
10	<i>Collateral for SFTs</i>	(148,106)	–	–	(148,106)	–
11	Exposure amounts considered for regulatory purposes⁽⁵⁾	390,855	267,804	5,870	30,369	58,423

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

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

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

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

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

CC1 – Composition of Regulatory Capital

(millions of Canadian dollars)

		2021	2020				
		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'	3,139	3,104	3,087	3,074	3,072
2	Retained earnings	b	10,998	10,444	10,150	10,058	9,556
3	Accumulated other comprehensive income and other reserves	c	(167)	(118)	(177)	(137)	(7)
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		13,970	13,430	13,060	12,995	12,621
Regulatory adjustments to Common Equity Tier 1 capital							
7	Prudential valuation adjustments		-	-	-	-	-
8	Goodwill (net of related tax liability)	e - w	(1,508)	(1,515)	(1,518)	(1,524)	(1,511)
9	Intangible assets other than mortgage-servicing rights	f - x	(1,222)	(1,213)	(1,239)	(1,182)	(1,160)
10	Deferred tax assets excluding those arising from temporary differences (net of related tax liability)	g	(41)	(41)	(32)	(31)	-
11	Accumulated other comprehensive income related to cash flow hedges	h	249	283	311	313	47
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	140	59	41	(88)	56
15	Defined benefit pension plan assets (net of related tax liability)	k - y	(196)	(79)	(15)	(118)	(7)
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)		171	243	232	203	-
27	Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions		-	-	-	-	-
28	Total regulatory adjustments to Common equity Tier 1		(2,407)	(2,263)	(2,220)	(2,427)	(2,575)
29	Common Equity Tier 1 capital (CET1)		11,563	11,167	10,840	10,568	10,046
29a	CET1 with transitional arrangements for ECL provisioning not applied		11,392	10,924	10,608	10,365	
Additional Tier 1 capital: instruments							
30	Directly issued qualifying Additional Tier 1 instruments plus related contributed surplus ⁽²⁾		2,950	2,950	2,450	2,450	2,450
31	of which: classified as equity under applicable accounting standards	v + z	2,950	2,950	2,450	2,450	2,450
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'	-	-	-	350	350
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		2,950	2,950	2,450	2,800	2,800

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

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

CC1 – Composition of Regulatory Capital (continued)

(millions of Canadian dollars)

		2021	2020			
		Q1	Q4	Q3	Q2	Q1
		Reference ⁽¹⁾				
Additional Tier 1 capital: regulatory adjustments						
37	Investments in own Additional Tier 1 instruments	-	(3)	-	-	-
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)	(2)	-	-	-
41a	of which: Reverse mortgages	(1)	(2)	-	-	-
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)	(5)	-	-	-
44	Additional Tier 1 capital (AT1)	2,949	2,945	2,450	2,800	2,800
45	Tier 1 capital (T1 = CET1 + AT1)	14,512	14,112	13,290	13,368	12,846
45a	Tier 1 Capital with transitional arrangements for ECL provisioning not applied	14,341	13,869	13,058	13,165	
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	10	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	402	317	308	205
51	Tier 2 capital before regulatory adjustments		1,161	1,076	1,072	964
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)	(84)	(21)	(26)	(66)	(55)
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	(84)	(21)	(26)	(66)	(55)
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	(84)	(21)	(26)	(66)	(55)
58	Tier 2 capital (T2)	1,077	1,055	1,046	1,002	909
59	Total capital (TC = T1 + T2)	15,589	15,167	14,336	14,370	13,755
59a	Total Capital with transitional arrangements for ECL provisioning not applied	15,589	15,167	14,336	14,370	

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

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

CC1 – Composition of Regulatory Capital (continued)

(millions of Canadian dollars)

		2021	2020			
		Q1	Q4	Q3	Q2	Q1
60	Total risk-weighted assets	97,183	94,808	94,814	92,755	86,206
60a	Common Equity Tier 1 Capital RWA (CET1)	97,183	94,808	94,814	92,755	86,206
60b	Tier 1 Capital RWA	97,183	94,808	94,814	92,755	86,206
60c	Total capital RWA	97,183	94,808	94,814	92,755	86,206
Capital ratios						
61	Common Equity Tier 1 (as a percentage of risk weighted assets)	11.9%	11.8%	11.4%	11.4%	11.7%
61a	CET1 Ratio with transitional arrangements for ECL provisioning not applied	11.7%	11.5%	11.2%	11.2%	
62	Tier 1 (as a percentage of risk weighted assets)	14.9%	14.9%	14.0%	14.4%	14.9%
62a	Tier 1 Capital Ratio with transitional arrangements for ECL provisioning not applied	14.8%	14.6%	13.8%	14.2%	
63	Total capital (as a percentage of risk weighted assets)	16.0%	16.0%	15.1%	15.5%	16.0%
63a	Total Capital Ratio with transitional arrangements for ECL provisioning not applied	16.0%	16.0%	15.1%	15.5%	
64	Institution-specific buffer requirement (minimum CET1 requirement plus capital conservation buffer plus G-SIB buffer requirement plus D-SIB buffer requirement expressed as a percentage of risk weighted assets)	8.0%	8.0%	8.0%	8.0%	8.0%
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)	11.9%	11.8%	11.4%	11.4%	11.7%
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	435	365	346	390	436
73	Significant investments in the common stock of financials	353	337	377	354	340
74	Mortgage servicing rights (net of related tax liability)	–	–	–	–	–
75	Deferred tax assets arising from temporary differences (net of related tax liabilities)	563	409	361	114	204
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)	137	122	118	123	92
77	Cap on inclusion of allowances in Tier 2 under standardised approach	167	166	159	159	139
78	Allowance eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings-based approach (IRB) (prior to application of cap)	265	195	195	185	113
79	Cap on inclusion of allowances in Tier 2 under internal ratings-based approach	407	394	392	384	354
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	387	387	387	387
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	476	476	476	476
85	Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	–	–	–	–	–

(1) Do not include the domestic stability buffer.

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

(millions of Canadian dollars)

	Q1 2021		
	Cross - Reference to Definition of Capital ⁽²⁾	As in Report to Shareholders	Under scope of regulatory consolidation
Assets			
Cash and deposits with financial institutions		33,726	33,726
Securities		110,640	123,684
Non-significant investments in capital of other financial institutions reflected in regulatory capital	l	–	–
Other securities		110,640	123,684
Assets purchased under reverse repurchase agreements and securities borrowed		10,419	14,026
Loans			
Residential mortgage		66,827	38,950
Personal		37,738	37,738
Credit card		1,846	1,846
Business and government		55,550	55,550
Customers' liability under acceptances		6,878	6,878
Less: Allowances for credit losses		(1,149)	(573)
Allowance reflected in Tier 2 regulatory capital	t	–	(573)
Shortfall of allowances to expected loss	i	–	–
Allowances not reflected in regulatory capital		–	(576)
Other assets			
Derivative financial instruments		12,877	13,561
Other		8,285	8,148
Goodwill	e	1,408	1,508
Intangibles assets	f	2,589	1,446
Deferred tax assets		588	777
Deferred tax assets excluding those arising from temporary differences	g	–	41
Deferred tax assets arising from temporary differences exceeding regulatory thresholds	o	–	–
Deferred tax assets - realize through loss carrybacks		–	173
Deferred tax assets - other temporary differences		–	563
Defined-benefit pension fund net assets	k	–	267
Significant investments in other financial institutions		–	353
Significant investments exceeding regulatory thresholds	m + n	–	–
Significant investments not exceeding regulatory thresholds		–	353
Other		3,700	3,797
Total assets		343,637	333,534

(1) The basis of consolidation used for financial accounting purposes, described in note 1 to the 2020 Annual Report audited consolidated financial statements, may differ from regulatory purposes. The regulatory consolidation does not include structured entities, where significant risk has been transferred to third parties nor subsidiaries and associates engaged in insurance activities. Total assets of National Bank Life Insurance Company and other insurance subsidiaries are \$195 million and \$16 million respectively.

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

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

(millions of Canadian dollars)

	Q1 2021		
	Cross - Reference to Definition of Capital ⁽²⁾	As in Report to Shareholders	Under scope of regulatory consolidation
Liabilities			
Deposits		227,677	227,677
Derivatives financials instruments		14,010	14,890
Other liabilities		84,257	91,803
Gains and losses due to changes in own credit risk on fair value liabilities	j	–	(140)
Deferred tax liabilities		19	19
Related to goodwill	w	–	–
Related to intangibles	x	–	224
Related to pensions	y	–	71
Other deferred tax liabilities		–	(276)
Other		84,238	91,924
Subordinated debt		773	773
Regulatory capital amortization of maturing debentures		–	–
Fair value adjustment and unamortized issuance cost		–	14
Subordinated debentures not allowed for regulatory capital	s	–	–
Subordinated debentures used for regulatory capital		–	759
Allowed for inclusion in Tier 2 capital	r	–	750
Subject to phase out	r'	–	9
Total liabilities		326,717	335,143
Equity Attributable to Shareholders and holders of other equity instruments		16,920	16,920
Common shares	a	3,094	3,094
Contributed surplus	a'	45	45
Retained earnings	b	10,998	10,998
Accumulated Other Comprehensive Income (loss)	c	(167)	(167)
Net gains (losses) on instruments designated as cash flow hedges	h	(249)	(249)
Net foreign currency translation adjustments		(48)	(48)
Other		130	130
Preferred shares and other equity instruments		2,950	2,950
of which: are qualifying	v	–	2,950
of which: are subject to phase out	v'	–	–
Non-controlling interest		–	–
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		–	–
Total Equity		16,920	16,920
Total Liabilities and Equity		343,637	352,063

(1) The basis of consolidation used for financial accounting purposes, described in note 1 to the 2020 Annual Report audited consolidated financial statements, may differ from regulatory purposes. The regulatory consolidation does not include structured entities, where significant risk has been transferred to third parties nor subsidiaries and associates engaged in insurance activities. Total assets of National Bank Life Insurance Company and other insurance subsidiaries are \$195 million and \$16 million respectively.

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

TLAC1 – TLAC Composition⁽¹⁾

(millions of Canadian dollars)

		2021	2020			
		Q1	Q4	Q3	Q2	Q1
Regulatory capital elements of TLAC and adjustments						
1	Common Equity Tier 1 capital (CET1)	11,563	11,167	10,840	10,568	10,046
2	Additional Tier 1 capital (AT1) before TLAC adjustments	2,950	2,950	2,450	2,800	2,800
3	AT1 ineligible as TLAC as issued out of subsidiaries to third parties ⁽²⁾	-	-	-	-	-
4	Other adjustments	(1)	(5)	-	-	-
5	AT1 instruments eligible under the TLAC framework	2,949	2,945	2,450	2,800	2,800
6	Tier 2 capital (T2) before TLAC adjustments	1,161	1,076	1,072	1,068	964
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	(84)	(21)	(26)	(66)	(55)
10	T2 instruments eligible under the TLAC framework	1,077	1,055	1,046	1,002	909
11	TLAC arising from regulatory capital	15,589	15,167	14,336	14,370	13,755
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	9,033	7,350	7,281	5,882	6,259
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	9,033	7,350	7,281	5,882	6,259
Non-regulatory capital elements of TLAC: adjustments						
18	TLAC before deductions	24,622	22,517	21,617	20,252	20,014
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	(20)	(6)	(33)	(80)	(71)
21	Other adjustments to TLAC	-	-	-	-	-
22	TLAC available after deductions	24,602	22,511	21,584	20,172	19,943
Risk-weighted assets and leverage exposure measure for TLAC purposes						
23	Total risk-weighted assets adjusted as permitted under the TLAC regime	97,183	94,808	94,814	92,755	86,206
24	Leverage exposure measure	334,013	321,038	309,001	306,386	319,709
TLAC ratios and buffers						
25	TLAC ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime)	25.3%	23.7%	22.8%	21.7%	23.1%
26	TLAC Leverage ratio (as a percentage of leverage exposure)	7.4%	7.0%	7.0%	6.6%	6.2%
27	CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements	n.a.	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 will be required starting November 1, 2021.

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

TLAC3 – Creditor Ranking at Legal Entity Level⁽¹⁾

(millions of Canadian dollars)

		Q1 2021						Q4 2020					
		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	3,094	2,950	759	10,031	–	16,834	3,057	2,950	759	8,369	–	15,135
3	Subset of row 2 that are excluded liabilities	–	–	–	1,018	–	1,018	–	–	–	1,025	–	1,025
4	Total capital and liabilities less excluded liabilities (row 2 minus row 3)	3,094	2,950	759	9,013	–	15,816	3,057	2,950	759	7,344	–	14,110
5	Subset of row 4 that are potentially eligible as TLAC	3,094	2,950	759	9,013	–	15,816	3,057	2,950	759	7,344	–	14,110
6	Subset of row 5 with 1 year ≤ residual maturity < 2 years	–	–	–	952	–	952	–	–	–	999	–	999
7	Subset of row 5 with 2 years ≤ residual maturity < 5 years	–	–	–	5,812	–	5,812	–	–	–	4,952	–	4,952
8	Subset of row 5 with 5 years ≤ residual maturity < 10 years	–	–	750	805	–	1,555	–	–	750	774	–	1,524
9	Subset of row 5 residual maturity ≥ 10 years, but excluding perpetual securities	–	–	9	1,444	–	1,453	–	–	9	619	–	628
10	Subset of row 5 that is perpetual securities	3,094	2,950	–	–	–	6,044	3,057	2,950	–	–	–	6,007

		Q3 2020						Q2 2020					
		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	3,040	2,450	759	7,997	–	14,246	3,028	2,450	760	6,603	–	12,841
3	Subset of row 2 that are excluded liabilities	–	–	–	748	–	748	–	–	–	801	–	801
4	Total capital and liabilities less excluded liabilities (row 2 minus row 3)	3,040	2,450	759	7,249	–	13,498	3,028	2,450	760	5,802	–	12,040
5	Subset of row 4 that are potentially eligible as TLAC	3,040	2,450	759	7,249	–	13,498	3,028	2,450	760	5,802	–	12,040
6	Subset of row 5 with 1 year ≤ residual maturity < 2 years	–	–	–	–	–	–	–	–	–	–	–	–
7	Subset of row 5 with 2 years ≤ residual maturity < 5 years	–	–	–	6,270	–	6,270	–	–	–	5,552	–	5,552
8	Subset of row 5 with 5 years ≤ residual maturity < 10 years	–	–	750	758	–	1,508	–	–	750	22	–	772
9	Subset of row 5 residual maturity ≥ 10 years, but excluding perpetual securities	–	–	9	221	–	230	–	–	10	228	–	238
10	Subset of row 5 that is perpetual securities	3,040	2,450	–	–	–	5,490	3,028	2,450	–	–	–	5,478

(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)

	2021	2020			
	Q1	Q4	Q3	Q2	Q1
Accounting assets vs. leverage ratio exposure					
1 Total consolidated assets as per published financial statements	343,637	331,625	322,453	316,950	289,191
2 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	14	8	55	34	25
3 Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference ⁽¹⁾	(65)	(65)	(65)	(37)	(898)
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⁾	3,859	2,224	1,755	(64)	6,458
6 Adjustment for securities financing transactions (i.e. repos and similar secured lending) ⁽²⁾	3,754	2,174	3,562	1,857	4,754
7 Adjustment for off-balance sheet items (i.e. conversion to credit equivalent amounts of off-balance sheet exposures)	27,716	27,365	25,938	24,833	24,555
8 Other adjustments	(44,902)	(42,293)	(44,697)	(37,187)	(4,376)
9 Leverage Ratio Exposure	334,013	321,038	309,001	306,386	319,709

(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)

		2021	2020			
		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)	281,196	267,262	257,390	252,666	267,659
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)	(3,088)	(3,350)	(3,329)	(3,509)	(1,740)
4	(Asset amounts deducted in determining Basel III Tier 1 capital)	(2,721)	(2,570)	(2,493)	(2,855)	(2,631)
5	Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of rows 1 to 4)	275,387	261,342	251,568	246,302	263,288
Derivative exposures						
6	Replacement cost associated with all derivative transactions (where applicable net of eligible cash variation margin and/or with bilateral netting)	4,811	4,757	5,433	6,373	3,408
7	Add-on amounts for PFE associated with all derivative transactions	11,913	10,821	9,769	9,290	11,995
8	(Exempted CCP leg of client-cleared trade exposures)	-	-	-	-	-
9	Adjusted effective notional amount of written credit derivatives	13	67	20	21	20
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	-	-	-	-	-
11	Total derivative exposures (sum of rows 6 to 10)	16,737	15,645	15,222	15,684	15,423
Securities financing transaction exposures						
12	Gross SFT assets (with no recognition of netting), after adjusting for sale accounting transactions	10,419	14,512	12,711	17,710	11,689
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(1,272)	(1,725)	(1,491)	(2,301)	(520)
14	CCR exposure for SFTs assets	5,026	3,899	5,053	4,158	5,274
15	Agent transaction exposures	-	-	-	-	-
16	Total securities financing transaction exposures (sum of rows 12 to 15)	14,173	16,686	16,273	19,567	16,443
Other off-balance sheet exposures						
17	Off-balance sheet exposure at gross notional amount	87,397	85,644	82,951	80,508	76,692
18	(Adjustments for conversion to credit equivalent amounts)	(59,681)	(58,279)	(57,013)	(55,675)	(52,137)
19	Off-balance sheet items (sum of rows 17 and 18)	27,716	27,365	25,938	24,833	24,555
Capital and Total Exposures						
20	Tier 1 capital	14,512	14,112	13,290	13,368	12,846
20a	Tier 1 Capital with transitional arrangements for ECL provisioning not applied	14,341	13,869	13,058	13,165	
21	Total Exposures (sum of rows 5, 11, 16 and 19)	334,013	321,038	309,001	306,386	319,709
Leverage Ratio						
22	Basel III leverage ratio	4.3%	4.4%	4.3%	4.4%	4.0%
22a	Basel III leverage ratio with transitional arrangements for ECL provisioning not applied	4.3%	4.3%	4.2%	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 2021							Q4 2020						
		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⁾	734	170,991	1,155	23	58	1,074	170,570	782	164,083	1,163	26	57	1,080	163,702
2	Debt Securities	-	32,418	3	-	1	2	32,415	-	33,237	4	-	1	3	33,233
3	Off-balance-sheet commitments ⁽⁶⁾	18	84,170	196	-	4	192	83,992	17	82,314	176	-	4	172	82,155
4	Total	752	287,579	1,354	23	63	1,268	286,977	799	279,634	1,343	26	62	1,255	279,090

		Q3 2020							Q2 2020						
		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⁾	743	157,723	1,118	26	58	1,034	157,348	760	160,166	1,044	25	48	971	159,882
2	Debt Securities	-	34,680	3	-	2	1	34,677	-	31,533	5	-	2	3	31,528
3	Off-balance-sheet commitments ⁽⁶⁾	12	80,210	184	-	2	182	80,038	17	77,809	162	-	3	159	77,664
4	Total	755	272,613	1,305	26	62	1,217	272,063	777	269,508	1,211	25	53	1,133	269,074

(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 2021	Q4 2020	Q3 2020	Q2 2020	Q1 2020
		a	a	a	a	a
1	Defaulted loans ⁽¹⁾ and debt securities at beginning	782	743	760	653	656
2	Loans and debt securities that have defaulted since the last reporting period	169	227	179	267	245
3	Returned to non-defaulted status since the last reporting period	(68)	(50)	(40)	(26)	(35)
4	Amounts written off	(67)	(80)	(55)	(74)	(85)
5	Other changes ⁽²⁾	(82)	(58)	(101)	(60)	(128)
6	Defaulted loans⁽¹⁾ and debt securities at end	734	782	743	760	653

(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 2021					Q4 2020				
		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⁾	104,226	67,475	60,866	6,414	–	100,103	64,733	59,254	5,334	–
2	Debt securities	32,418	–	–	–	–	33,237	–	–	–	–
3	Total	136,644	67,475	60,866	6,414	–	133,340	64,733	59,254	5,334	–
4	Of which defaulted	487	241	185	52	–	511	289	234	51	–

		Q3 2020					Q2 2020				
		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⁾	95,012	63,425	57,832	5,442	–	99,239	61,658	52,068	3,736	–
2	Debt securities	34,680	–	–	–	–	31,533	–	–	–	–
3	Total	129,692	63,425	57,832	5,442	–	130,772	61,658	52,068	3,736	–
4	Of which defaulted	486	228	189	35	–	477	227	158	44	–

(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)

	2021						2020												
	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	6,100	446	4	-	-	6,550	5,924	448	3	-	-	6,375	5,823	418	5	-	-	6,246	
Oil & Gas and Pipelines	4,822	3,625	307	-	-	8,754	5,103	3,134	308	-	-	8,545	5,311	3,165	291	-	-	8,767	
<i>Oil and Gas</i>	2,327	1,811	145	-	-	4,283	2,561	1,692	158	-	-	4,411	2,878	1,550	160	-	-	4,588	
<i>Pipelines & Other</i>	2,495	1,814	162	-	-	4,471	2,542	1,442	150	-	-	4,134	2,433	1,615	131	-	-	4,179	
Mining	576	1,281	194	-	-	2,051	690	1,271	167	-	-	2,128	910	1,104	163	-	-	2,177	
Utilities	5,376	2,804	1,290	-	-	9,470	5,102	3,075	1,242	-	-	9,419	4,721	3,198	1,197	-	-	9,116	
Construction Non-Real Estate ⁽²⁾	1,369	1,117	102	-	-	2,588	1,297	1,500	71	-	-	2,868	1,225	1,590	74	-	-	2,889	
Manufacturing	5,272	2,588	338	-	-	8,198	5,457	2,671	376	-	-	8,504	6,124	2,462	362	-	-	8,948	
Wholesale	2,185	1,057	51	-	-	3,293	2,128	995	46	-	-	3,169	2,016	1,064	61	-	-	3,141	
Retail	2,835	1,534	42	-	-	4,411	2,828	1,608	43	-	-	4,479	2,979	1,538	39	-	-	4,556	
Transportation	1,498	1,109	83	56	-	2,746	1,563	1,104	77	71	-	2,815	1,760	988	70	106	-	2,924	
Communications	1,246	972	196	-	-	2,414	1,118	961	205	-	-	2,284	1,178	996	206	-	-	2,380	
Finance and Insurance	33,165	4,543	1,143	119,056	2,782	160,689	28,678	4,123	1,029	111,002	2,337	147,169	28,072	4,084	1,139	127,473	1,360	162,128	
Real Estate and Construction																			
Real Estate ⁽³⁾	14,188	4,259	262	-	-	18,709	13,418	3,506	256	-	-	17,180	12,631	3,569	231	-	-	16,431	
Professional Services	1,366	1,408	260	-	-	3,034	1,243	1,152	273	-	-	2,668	1,559	1,042	277	-	-	2,878	
Education & Health Care	3,795	1,601	11	18	-	5,425	3,581	1,523	10	3	-	5,117	3,666	1,003	8	3	-	4,680	
Other Services	6,104	1,914	439	3	-	8,460	6,180	1,755	454	-	-	8,389	6,350	1,644	449	-	-	8,443	
Government	29,467	1,435	5	40,243	163	71,313	29,873	1,426	5	33,186	178	64,668	28,559	1,197	3	34,194	145	64,098	
Other	10,490	14	634	1,280	1	12,419	9,974	41	823	855	16	11,709	9,654	42	700	636	13	11,045	
Total – Non-retail⁽⁴⁾	129,854	31,707	5,361	160,656	2,946	330,524	124,157	30,293	5,388	145,117	2,531	307,486	122,538	29,104	5,275	162,412	1,518	320,847	

(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)

	2020						2019						2018						
	Q2			Q1			Q4			Q3			Q2			Q1			
	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	5,638	385	5	-	-	6,028	5,574	332	4	-	-	5,910	5,437	337	4	-	-	5,778	
Oil & Gas and Pipelines	5,546	3,301	302	-	-	9,149	4,248	3,570	315	-	-	8,133	4,326	3,601	284	-	-	8,211	
<i>Oil and Gas</i>	2,938	1,768	146	-	-	4,852	2,580	2,096	142	-	-	4,818	2,799	2,070	143	-	-	5,012	
<i>Pipelines & Other</i>	2,608	1,533	156	-	-	4,297	1,668	1,474	173	-	-	3,315	1,527	1,531	141	-	-	3,199	
Mining	1,192	855	178	-	-	2,225	663	1,101	172	-	-	1,936	669	1,081	159	-	-	1,909	
Utilities	4,496	3,301	1,136	-	-	8,933	3,976	2,932	916	-	-	7,824	3,807	2,435	775	-	-	7,017	
Construction Non-Real Estate ⁽²⁾	1,078	1,500	67	-	-	2,645	1,093	1,208	71	-	-	2,372	1,387	1,188	87	-	-	2,662	
Manufacturing	6,571	2,120	339	-	-	9,030	6,266	2,152	315	-	-	8,733	6,250	2,036	217	-	-	8,503	
Wholesale	2,257	831	47	-	-	3,135	2,203	771	46	-	-	3,020	2,137	851	47	-	-	3,035	
Retail	3,657	886	41	-	-	4,584	3,203	1,170	53	-	-	4,426	3,202	1,172	47	-	-	4,421	
Transportation	1,821	980	74	184	-	3,059	1,623	937	71	242	-	2,873	1,694	845	80	39	-	2,658	
Communications	1,578	791	203	-	-	2,572	1,379	883	200	-	-	2,462	1,553	936	200	-	-	2,689	
Finance and Insurance	32,469	4,106	1,088	138,269	1,398	177,330	30,697	4,174	1,103	148,504	1,864	186,342	34,318	4,102	1,335	138,430	1,982	180,167	
Real Estate and Construction																			
Real Estate ⁽³⁾	12,101	3,074	217	-	-	15,392	11,884	3,065	209	-	-	15,158	11,083	2,961	247	-	-	14,291	
Professional Services	1,892	704	326	-	-	2,922	1,681	779	386	-	-	2,846	1,624	760	363	-	-	2,747	
Education & Health Care	3,628	1,203	7	1	-	4,839	3,268	1,148	7	2	-	4,425	3,393	1,150	7	1	-	4,551	
Other Services	6,302	1,425	453	-	-	8,180	5,782	1,375	450	-	-	7,607	4,880	1,248	398	-	-	6,526	
Government	22,461	1,588	3	35,429	125	59,606	9,614	1,520	3	18,511	154	29,802	9,127	1,437	3	15,320	175	26,062	
Other	10,031	44	817	1,760	-	12,652	8,608	46	771	1,388	-	10,813	6,966	34	627	1,365	-	8,992	
Total – Non-retail⁽⁴⁾	122,718	27,094	5,303	175,643	1,523	332,281	101,762	27,163	5,092	168,647	2,018	304,682	101,853	26,174	4,880	155,155	2,157	290,219	

(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.

Gross Credit Risk Exposure at Default in Europe⁽¹⁾

(millions of Canadian dollars)

	2021						2020						2019					
	Q1						Q4						Q3					
	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	Drawn	Undrawn commitments	Repo-style transactions ⁽²⁾	Derivatives Financial Instruments	Other off-balance sheet items ⁽³⁾	Total
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ireland	1	-	462	6	-	469	-	-	143	9	-	152	80	24	172	7	-	283
Italy	2	3	-	-	5	10	-	1	-	-	5	6	-	1	-	-	3	4
Portugal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	30	1,356	16	33	1,435	8	30	1,346	1	31	1,416	10	30	1,377	1	31	1,449
Total GIIPS	3	33	1,818	22	38	1,914	8	31	1,489	10	36	1,574	90	55	1,549	8	34	1,736
France	24	55	4,037	145	323	4,584	24	71	1,959	9	355	2,418	67	68	7,777	143	351	8,406
Germany	162	20	-	59	19	260	172	23	-	34	20	249	175	22	-	35	21	253
United Kingdom	2,214	98	22,034	2,728	3	27,077	1,637	80	22,314	2,265	3	26,299	2,215	4	25,418	2,195	3	29,835
Other Europe	180	36	3,885	617	8	4,726	284	45	4,580	559	11	5,479	349	45	4,075	437	2	4,908
Total – Credit Risk⁽⁴⁾	2,583	242	31,774	3,571	391	38,561	2,125	250	30,342	2,877	425	36,019	2,896	194	38,819	2,818	411	45,138

Adjustment to exposure for collateral	Drawn	Undrawn commitments	Net Repo-Style transactions and derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total	Drawn	Undrawn commitments	Net Repo-Style transactions and derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total	Drawn	Undrawn commitments	Net Repo-Style transactions and derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total
	Total – Net Credit Risk⁽⁴⁾	2,583	242	1,585	391	4,801	2,125	250	1,484	425	4,284	2,896	194	1,609	411

	2020						2019						2018					
	Q2						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	Drawn	Undrawn commitments	Repo-style transactions ⁽²⁾	Derivatives Financial Instruments	Other off-balance sheet items ⁽³⁾	Total
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ireland	82	20	35	10	-	147	70	23	580	1	3	677	71	22	690	1	-	784
Italy	-	1	-	-	3	4	-	1	-	-	-	1	-	1	-	-	1	2
Portugal	-	-	-	-	-	-	-	-	-	-	31	31	-	-	-	-	-	-
Spain	20	30	716	1	31	798	4	36	1,965	11	-	2,016	1	38	33	1	39	112
Total GIIPS	102	51	751	11	34	949	74	60	2,545	12	34	2,725	72	61	723	2	40	898
France	40	80	7,082	133	358	7,693	87	77	10,539	104	318	11,125	25	76	2,527	-	52	2,680
Germany	179	29	-	32	27	267	168	32	-	28	28	256	175	34	-	30	27	266
United Kingdom	1,973	2	33,668	2,062	3	37,708	1,233	44	27,996	3,147	1	32,421	872	15	27,374	2,125	1	30,387
Other Europe	216	154	3,789	423	2	4,584	184	20	6,626	512	18	7,360	118	22	2,696	210	9	3,055
Total – Credit Risk⁽⁴⁾	2,510	316	45,290	2,661	424	51,201	1,746	233	47,706	3,803	399	53,887	1,262	208	33,320	2,367	129	37,286

Adjustment to exposure for collateral	Drawn	Undrawn commitments	Net Repo-Style transactions and derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total	Drawn	Undrawn commitments	Net Repo-Style transactions and derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total	Drawn	Undrawn commitments	Net Repo-Style transactions and derivatives financial instruments	Other off-balance sheet items ⁽³⁾	Total
	Total – Net Credit Risk⁽⁴⁾	2,510	316	1,549	424	4,799	1,746	233	1,695	399	4,073	1,262	208	1,267	129

(1) Exposure at default is the expected gross exposure upon the default of an obligor. This amount is before any specific allowance or partial write-offs and does not reflect the impact of credit risk mitigation and collateral held. These tables 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) 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 2021						Q4 2020					
		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	2,565	81	2,565	-	2,062	80%	2,672	82	2,672	-	2,069	77%
2	Non-central government public sector entities	-	-	-	-	-	0%	-	-	-	-	-	0%
3	Multilateral development banks	254	-	254	-	-	0%	304	-	304	-	-	0%
4	Financial institutions	867	4,798	867	242	619	56%	802	4,839	802	271	609	57%
5	Securities firms	-	-	-	-	-	0%	-	-	-	-	-	0%
6	Corporates	7,324	637	7,324	190	4,021	54%	6,232	785	6,232	235	3,739	58%
7	Regulatory retail portfolios	3,849	51	3,849	14	2,136	55%	4,130	27	4,130	7	2,342	57%
8	Secured by residential property	6,158	124	6,158	49	2,330	38%	6,555	139	6,555	55	2,392	36%
9	Secured by commercial real estate	179	-	179	-	179	100%	157	-	157	-	157	100%
10	Equity	-	-	-	-	-	0%	-	-	-	-	-	0%
11	Past-due loans	47	2	47	-	36	77%	46	3	46	-	33	72%
12	Higher-risk categories	4	-	4	-	6	150%	4	-	4	-	6	150%
13	Other assets ⁽²⁾	3,779	-	3,779	-	2,761	73%	3,978	-	3,978	-	2,882	72%
14	Total	25,026	5,693	25,026	495	14,150	55%	24,880	5,875	24,880	568	14,229	56%

		Q3 2020						Q2 2020					
		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	2,257	82	2,257	-	1,693	75%	1,959	82	1,959	-	1,242	63%
2	Non-central government public sector entities	-	-	-	-	-	0%	-	-	-	-	-	0%
3	Multilateral development banks	117	-	117	-	-	0%	147	-	147	-	-	0%
4	Financial institutions	729	4,841	729	274	599	60%	2,118	2,625	2,118	278	883	37%
5	Securities firms	-	-	-	-	-	0%	-	-	-	-	-	0%
6	Corporates	5,793	737	5,795	204	3,540	59%	4,706	883	4,706	268	3,822	77%
7	Regulatory retail portfolios	4,128	404	4,128	63	2,342	56%	4,355	1,029	4,355	186	2,590	57%
8	Secured by residential property	6,317	128	6,317	50	2,387	37%	6,220	108	6,220	42	2,412	39%
9	Secured by commercial real estate	156	-	156	-	156	100%	152	-	152	-	152	100%
10	Equity	-	-	-	-	-	0%	-	-	-	-	-	0%
11	Past-due loans	30	1	30	-	32	107%	36	8	36	-	24	67%
12	Higher-risk categories	-	-	-	-	-	0%	-	-	-	-	-	0%
13	Other assets ⁽²⁾	3,997	-	3,997	-	2,881	72%	3,939	-	3,939	-	2,940	75%
14	Total	23,524	6,193	23,526	591	13,630	57%	23,632	4,735	23,632	774	14,065	58%

(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 2021										Q4 2020									
		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	503	-	-	-	-	-	2,062	-	-	2,565	603	-	-	-	-	-	2,069	-	-	2,672
2	Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Multilateral development banks	254	-	-	-	-	-	-	-	-	254	304	-	-	-	-	-	-	-	-	304
4	Financial institutions	43	-	546	-	18	-	502	-	-	1,109	50	-	517	-	-	-	506	-	-	1,073
5	Securities firms	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Corporates	3,444	-	62	-	-	-	4,008	-	-	7,514	2,679	-	62	-	-	-	3,726	-	-	6,467
7	Regulatory retail portfolios	1,015	-	-	-	-	2,848	-	-	-	3,863	1,015	-	-	-	3,122	-	-	-	-	4,137
8	Secured by residential property	623	-	-	4,652	35	851	46	-	-	6,207	887	-	-	4,751	41	886	45	-	-	6,610
9	Secured by commercial real estate	-	-	-	-	-	-	179	-	-	179	-	-	-	-	-	157	-	-	-	157
10	Equity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Past-due loans	13	-	-	-	-	-	30	4	-	47	14	-	-	-	-	29	3	-	-	46
12	Higher-risk categories	-	-	-	-	-	-	-	4	-	4	-	-	-	-	-	-	-	4	-	4
13	Other assets ⁽³⁾	1,068	-	-	-	-	-	2,707	-	4	3,779	1,088	-	82	-	-	-	2,803	-	5	3,978
14	Total	6,963	-	608	4,652	53	3,699	9,534	8	4	25,521	6,640	-	661	4,751	41	4,008	9,335	7	5	25,448

		Q3 2020										Q2 2020									
		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	564	-	-	-	-	-	1,693	-	-	2,257	717	-	-	-	-	1,242	-	-	-	1,959
2	Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Multilateral development banks	117	-	-	-	-	-	-	-	-	117	147	-	-	-	-	-	-	-	-	147
4	Financial institutions	60	-	429	-	-	-	514	-	-	1,003	61	-	1,815	-	-	-	520	-	-	2,396
5	Securities firms	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Corporates	2,409	-	62	-	-	-	3,528	-	-	5,999	1,151	-	-	-	-	-	3,823	-	-	4,974
7	Regulatory retail portfolios	1,068	-	-	-	-	3,123	-	-	-	4,191	1,088	-	-	-	3,453	-	-	-	-	4,541
8	Secured by residential property	800	-	-	4,487	6	1,039	35	-	-	6,367	737	-	-	4,348	7	1,133	37	-	-	6,262
9	Secured by commercial real estate	-	-	-	-	-	-	156	-	-	156	-	-	-	-	-	152	-	-	-	152
10	Equity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Past-due loans	-	-	-	-	-	-	26	4	-	30	13	-	-	-	-	22	1	-	-	36
12	Higher-risk categories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Other assets ⁽³⁾	1,058	-	72	-	-	-	2,867	-	-	3,997	913	-	108	-	-	-	2,918	-	-	3,939
14	Total	6,076	-	563	4,487	6	4,162	8,819	4	-	24,117	4,827	-	1,923	4,348	7	4,586	8,714	1	-	24,406

(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 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	1,130	–	0%	1,130	0.07%	59,437	5.8%		13	1.1%	–
	0.15 to < 0.25	352	–	0%	352	0.19%	14,689	6.5%		10	2.7%	–
	0.25 to < 0.50	440	–	0%	440	0.36%	18,061	5.2%		14	3.4%	–
	0.50 to < 0.75	264	–	0%	264	0.61%	8,468	4.5%		11	4.3%	–
	0.75 to < 2.50	411	–	0%	411	1.30%	12,806	3.6%		22	5.5%	–
	2.50 to < 10.00	110	–	0%	110	4.60%	3,210	3.1%		11	9.8%	–
	10.00 to < 100.00	53	–	0%	53	28.53%	1,229	2.8%		9	16.1%	–
	100.00 (Default)	44	–	0%	44	100.00%	539	2.7%		5	10.7%	2
Sub-total	2,804	–	0%	2,804	2.64%	118,439	5.1%		95	3.4%	2	5
Residential Mortgages and HELOCs – uninsured	0.00 to < 0.15	28,239	15,873	50%	36,098	0.06%	211,481	19.1%		1,236	3.4%	5
	0.15 to < 0.25	7,458	1,312	67%	8,339	0.19%	33,547	20.4%		714	8.6%	3
	0.25 to < 0.50	7,533	1,223	72%	8,418	0.34%	30,640	21.2%		1,113	13.2%	6
	0.50 to < 0.75	2,657	216	72%	2,812	0.61%	10,208	21.9%		580	20.6%	4
	0.75 to < 2.50	2,250	219	71%	2,405	1.22%	10,259	20.8%		747	31.1%	6
	2.50 to < 10.00	523	27	69%	541	4.57%	2,916	20.7%		364	67.3%	5
	10.00 to < 100.00	172	1	171%	174	23.47%	1,041	21.6%		213	122.4%	9
	100.00 (Default)	79	3	83%	81	100.00%	617	21.7%		115	142.2%	10
Sub-total	48,911	18,874	53%	58,868	0.44%	300,709	19.8%		5,082	8.6%	48	59
Qualifying revolving retail	0.00 to < 0.15	700	5,941	74%	5,091	0.05%	757,326	77.5%		131	2.6%	2
	0.15 to < 0.25	164	677	90%	770	0.19%	227,815	86.4%		75	9.7%	1
	0.25 to < 0.50	243	471	85%	645	0.35%	189,204	82.6%		92	14.3%	2
	0.50 to < 0.75	175	208	87%	355	0.63%	71,883	77.8%		79	22.1%	2
	0.75 to < 2.50	536	324	90%	829	1.44%	236,692	83.7%		371	44.8%	11
	2.50 to < 10.00	362	50	122%	423	4.43%	190,967	86.9%		426	100.9%	16
	10.00 to < 100.00	50	3	81%	53	23.91%	20,853	87.3%		124	233.8%	11
	100.00 (Default)	18	–	21%	18	100.00%	3,364	70.6%		12	65.6%	12
Sub-total	2,248	7,674	77%	8,184	0.85%	1,698,104	79.9%		1,310	16.0%	57	258
Other retail	0.00 to < 0.15	1,961	2,382	64%	3,474	0.06%	123,540	50.8%		302	8.7%	1
	0.15 to < 0.25	831	358	62%	1,055	0.20%	50,734	52.4%		244	23.1%	1
	0.25 to < 0.50	1,310	349	62%	1,528	0.37%	73,985	52.5%		507	33.2%	3
	0.50 to < 0.75	1,127	245	76%	1,314	0.64%	59,022	56.0%		642	48.9%	5
	0.75 to < 2.50	3,682	238	68%	3,843	1.42%	190,303	55.6%		2,575	67.0%	31
	2.50 to < 10.00	1,020	81	68%	1,075	4.07%	62,360	52.6%		858	79.8%	23
	10.00 to < 100.00	231	18	51%	240	24.59%	10,852	48.2%		266	110.7%	27
	100.00 (Default)	94	3	38%	95	100.00%	7,114	53.7%		72	75.7%	53
Sub-total	10,256	3,674	64%	12,624	2.14%	577,910	53.3%		5,466	43.3%	144	173

(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 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	1,902	6,641	83%	6,634	0.08%	506	46.3%	2.03	1,565	23.6%	3	
	0.15 to < 0.25	12,134	15,808	88%	24,038	0.20%	2,681	37.8%	2.21	7,823	32.5%	18	
	0.25 to < 0.50	9,356	5,947	90%	13,882	0.36%	2,310	35.1%	2.30	5,662	40.8%	18	
	0.50 to < 0.75	9,326	4,694	91%	12,953	0.56%	2,546	32.9%	2.02	5,905	45.6%	24	
	0.75 to < 2.50	20,296	6,637	93%	24,607	1.15%	6,694	33.7%	1.98	14,784	60.1%	96	
	2.50 to < 10.00	3,585	1,220	77%	4,640	4.68%	1,263	32.6%	1.56	4,290	92.4%	72	
	10.00 to < 100.00	181	103	93%	252	16.10%	58	37.3%	1.13	410	163.0%	14	
	100.00 (Default)	541	75	99%	594	100.00%	214	34.5%	1.35	513	86.2%	226	
	Sub-total	57,321	41,125	89%	87,600	1.50%	16,272	35.9%	2.07	40,952	46.7%	471	761
Sovereign	0.00 to < 0.15	58,293	6,593	98%	63,980	0.01%	611	8.6%	2.12	769	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	32	32	91%	57	5.29%	3	35.2%	1.00	64	111.0%	1	
	10.00 to < 100.00	-	-	0%	-	0%	-	0%	-	-	0%	-	
	100.00 (Default)	-	-	0%	-	0%	-	0%	-	-	0%	-	
	Sub-total	58,325	6,625	98%	64,037	0.02%	614	8.6%	2.12	833	1.3%	2	8
Financial institutions	0.00 to < 0.15	2,447	242	0%	2,689	0.05%	62	43.2%	1.23	412	15.3%	1	
	0.15 to < 0.25	489	345	96%	833	0.18%	28	30.9%	1.07	193	23.1%	-	
	0.25 to < 0.50	65	43	87%	108	0.36%	6	46.3%	1.00	61	56.4%	-	
	0.50 to < 0.75	-	9	0%	10	0.56%	4	49.7%	1.00	6	65.0%	-	
	0.75 to < 2.50	3	6	100%	9	0.98%	10	40.2%	1.00	6	70.2%	-	
	2.50 to < 10.00	-	-	0%	-	3.74%	2	45.1%	1.00	-	145.0%	-	
	10.00 to < 100.00	-	-	0%	-	0%	-	0%	-	-	0%	-	
	100.00 (Default)	-	-	0%	-	0%	-	0%	-	-	0%	-	
	Sub-total	3,004	645	58%	3,649	0.09%	112	40.5%	1.19	678	18.6%	1	4
Total (all portfolio)	182,869	78,617	75%	237,766	0.85%	2,712,160	26.8%	2.00	54,416	24.5%	725	1,268	

(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 2020													
	PD scale ⁽¹⁾	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
Residential Mortgages – insured	0.00 to < 0.15	1,105	–	0%	1,105	0.08%	54,469	6.3%		15	1.4%	–	
	0.15 to < 0.25	408	–	0%	408	0.19%	17,623	6.8%		12	2.8%	–	
	0.25 to < 0.50	547	–	0%	547	0.36%	19,096	5.8%		21	3.8%	–	
	0.50 to < 0.75	336	–	0%	336	0.61%	8,660	4.7%		15	4.5%	–	
	0.75 to < 2.50	531	–	0%	531	1.29%	14,086	4.0%		31	6.1%	–	
	2.50 to < 10.00	153	–	0%	153	4.55%	3,803	3.0%		15	9.8%	–	
	10.00 to < 100.00	71	–	0%	71	27.75%	1,565	2.8%		12	16.4%	1	
	100.00 (Default)	48	–	0%	48	100.00%	647	2.7%		5	9.6%	1	
	Sub-total	3,199	–	0%	3,199	2.72%	119,949	5.5%		126	3.9%	2	6
Residential Mortgages and HELOCs – uninsured	0.00 to < 0.15	26,786	15,391	50%	34,454	0.06%	206,549	19.5%		1,211	3.5%	5	
	0.15 to < 0.25	7,142	1,260	66%	7,978	0.19%	32,699	21.1%		708	8.9%	3	
	0.25 to < 0.50	7,268	1,196	72%	8,132	0.35%	30,444	21.6%		1,102	13.5%	6	
	0.50 to < 0.75	2,681	222	71%	2,838	0.61%	10,407	22.4%		606	21.4%	4	
	0.75 to < 2.50	2,428	210	69%	2,573	1.24%	11,014	21.5%		843	32.8%	7	
	2.50 to < 10.00	616	31	69%	638	4.59%	3,280	21.3%		445	69.7%	7	
	10.00 to < 100.00	235	2	117%	237	24.16%	1,321	22.6%		304	128.2%	15	
	100.00 (Default)	108	3	77%	110	100.00%	778	22.1%		196	177.3%	11	
	Sub-total	47,264	18,315	53%	56,960	0.55%	296,492	20.3%		5,415	9.5%	58	64
Qualifying revolving retail	0.00 to < 0.15	785	6,135	74%	5,353	0.05%	740,541	78.2%		145	2.7%	2	
	0.15 to < 0.25	180	739	90%	844	0.19%	227,400	87.1%		82	9.8%	1	
	0.25 to < 0.50	265	530	86%	721	0.35%	193,442	83.8%		105	14.5%	2	
	0.50 to < 0.75	187	226	87%	384	0.63%	73,795	78.9%		86	22.5%	2	
	0.75 to < 2.50	586	364	90%	913	1.44%	237,019	84.3%		412	45.2%	12	
	2.50 to < 10.00	409	58	120%	477	4.44%	187,694	87.5%		486	101.9%	19	
	10.00 to < 100.00	56	3	80%	60	22.45%	20,557	87.2%		139	231.4%	12	
	100.00 (Default)	20	–	34%	20	100.00%	3,667	71.5%		8	40.9%	14	
	Sub-total	2,488	8,055	78%	8,772	0.87%	1,684,115	80.8%		1,463	16.7%	64	258
Other retail	0.00 to < 0.15	2,003	2,300	64%	3,470	0.06%	123,434	50.6%		300	8.6%	1	
	0.15 to < 0.25	852	350	62%	1,067	0.20%	51,576	53.1%		250	23.4%	1	
	0.25 to < 0.50	1,358	363	63%	1,588	0.37%	76,230	52.8%		530	33.4%	3	
	0.50 to < 0.75	1,130	244	74%	1,312	0.63%	59,502	55.9%		639	48.7%	5	
	0.75 to < 2.50	3,445	261	67%	3,620	1.35%	193,897	53.0%		2,271	62.7%	26	
	2.50 to < 10.00	1,076	88	68%	1,136	4.09%	64,523	52.3%		902	79.4%	24	
	10.00 to < 100.00	276	18	51%	285	24.17%	12,697	50.5%		333	116.7%	33	
	100.00 (Default)	102	3	40%	103	100.00%	7,495	52.5%		83	80.3%	55	
	Sub-total	10,242	3,627	64%	12,581	2.27%	589,354	52.5%		5,308	42.2%	148	182

(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 2020													
	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	2,238	6,055	82%	6,512	0.08%	467	46.3%	2.12	1,517	23.3%	2	
	0.15 to < 0.25	11,741	15,782	89%	23,419	0.20%	2,464	37.3%	2.32	7,645	32.6%	17	
	0.25 to < 0.50	10,327	6,544	90%	15,401	0.36%	2,245	36.3%	2.42	6,646	43.2%	20	
	0.50 to < 0.75	7,955	3,792	89%	10,944	0.56%	2,432	32.3%	2.05	4,745	43.4%	20	
	0.75 to < 2.50	19,480	6,265	87%	23,425	1.17%	6,487	32.7%	1.95	13,680	58.4%	90	
	2.50 to < 10.00	3,837	897	91%	4,533	4.87%	1,339	32.6%	1.68	4,266	94.1%	73	
	10.00 to < 100.00	125	104	96%	197	16.91%	59	33.7%	1.21	303	153.0%	11	
	100.00 (Default)	466	79	98%	532	100.00%	219	35.5%	1.12	562	106.0%	197	
	Sub-total	56,169	39,518	88%	84,963	1.45%	15,712	35.6%	2.14	39,364	46.3%	430	737
Sovereign	0.00 to < 0.15	55,048	6,598	99%	60,761	0.01%	610	8.5%	2.18	771	1.3%	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	31	34	88%	58	5.07%	3	15.2%	1.00	28	47.5%	–	
	10.00 to < 100.00	–	–	0%	–	0%	–	0%	–	–	0%	–	
	100.00 (Default)	–	–	0%	–	0%	–	0%	–	–	0%	–	
	Sub-total	55,079	6,632	98%	60,819	0.02%	613	8.5%	2.18	799	1.3%	1	5
Financial institutions	0.00 to < 0.15	2,493	237	0%	2,730	0.06%	62	46.3%	1.19	495	18.1%	1	
	0.15 to < 0.25	223	345	96%	568	0.20%	28	22.0%	1.10	109	19.1%	–	
	0.25 to < 0.50	9	31	81%	40	0.36%	4	36.5%	1.00	19	47.6%	–	
	0.50 to < 0.75	–	23	55%	23	0.56%	6	50.3%	1.04	15	66.4%	–	
	0.75 to < 2.50	2	6	100%	8	1.11%	9	41.6%	1.00	6	72.1%	–	
	2.50 to < 10.00	–	–	100%	–	3.59%	3	48.3%	1.00	–	0%	–	
	10.00 to < 100.00	–	–	0%	–	0%	–	0%	–	–	0%	–	
	100.00 (Default)	–	–	0%	–	0%	–	0%	–	–	0%	–	
	Sub-total	2,727	642	58%	3,369	0.09%	112	42.1%	1.17	644	19.1%	1	3
Total (all portfolio)		177,168	76,789	76%	230,663	0.87%	2,706,347	27.0%	2.00	53,119	24.5%	704	1,255

(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 – RWA Flow Statements of Credit Risk Exposures Under IRB

(millions of Canadian dollars)

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

		Q1 2021	Q4 2020	Q3 2020	Q2 2020	Q1 2020
		a	a	a	a	a
1	RWA at beginning	55,017	54,451	54,049	49,915	49,546
2	Book size ⁽¹⁾	2,015	343	568	3,668	391
3	Book quality ⁽²⁾	(115)	720	157	(59)	(41)
4	Model updates ⁽³⁾	(211)	(447)	–	112	(17)
5	Methodology and policy ⁽⁴⁾	–	–	–	–	–
6	Acquisitions and disposals ⁽⁵⁾	–	–	–	–	–
7	Foreign exchange movements ⁽⁶⁾	(367)	(50)	(323)	413	36
8	Other ⁽⁷⁾	–	–	–	–	–
9	RWA at end	56,339	55,017	54,451	54,049	49,915

(1) 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.

(2) 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.

(3) 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.

(4) 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.

(5) The Acquisitions and disposals item includes the impact of the acquisition and/or the disposal of entities.

(6) The Foreign exchange movements item is driven by market movements such as foreign exchange movements.

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

AIRB Credit Risk Exposure - Backtesting⁽¹⁾

(millions of Canadian dollars)

	2021						2020					
	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⁾	0.88%	0.54%	2.64%	n.a.	n.a.	n.a.	0.89%	0.60%	2.64%	n.a.	n.a.	n.a.
Uninsured residential mortgages incl. HELOCs ⁽⁷⁾	0.35%	0.30%	19.73%	3.15%	89.83%	84.51%	0.34%	0.28%	19.51%	4.20%	92.32%	86.17%
Qualifying revolving retail	1.26%	0.98%	82.33%	72.66%	107.44%	93.58%	1.27%	1.12%	82.94%	74.48%	107.58%	93.05%
Other retail	1.76%	1.05%	68.60%	49.28%	83.54%	74.23%	1.64%	1.12%	67.76%	50.57%	96.16%	79.82%
Non-Retail Portfolio⁽⁸⁾												
Corporate	0.98%	0.50%	32.89%	20.76%	82.52%	72.65%	1.11%	0.48%	39.57%	30.88%	81.95%	75.57%
Sovereign ⁽⁹⁾	0.06%	0.00%	11.54%	n.a.	88.30%	n.a.	0.06%	0.00%	11.54%	n.a.	88.30%	n.a.
Financial Institutions ⁽⁹⁾	0.46%	0.00%	40.75%	n.a.	100.00%	n.a.	0.48%	0.00%	40.75%	n.a.	100.00%	n.a.

	2020											
	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⁾	0.89%	0.72%	2.64%	n.a.	n.a.	n.a.	0.98%	0.56%	2.64%	n.a.	n.a.	n.a.
Uninsured residential mortgages incl. HELOCs ⁽⁷⁾	0.34%	0.32%	20.11%	5.70%	93.63%	88.93%	0.38%	0.31%	21.48%	10.73%	95.56%	90.08%
Qualifying revolving retail	1.25%	1.22%	85.60%	78.04%	107.58%	103.07%	1.27%	1.23%	85.90%	79.50%	106.93%	102.95%
Other retail	1.64%	1.22%	68.55%	53.56%	94.02%	87.73%	1.77%	0.96%	68.20%	56.83%	94.70%	86.04%
Non-Retail Portfolio⁽⁸⁾												
Corporate	1.20%	0.56%	40.67%	32.29%	79.34%	81.94%	1.13%	0.51%	41.35%	35.08%	79.76%	83.92%
Sovereign ⁽⁹⁾	0.06%	0.00%	11.54%	n.a.	88.30%	n.a.	0.05%	0.00%	11.54%	n.a.	88.30%	n.a.
Financial Institutions ⁽⁹⁾	0.44%	0.00%	40.75%	n.a.	100.00%	n.a.	0.34%	0.00%	40.75%	n.a.	100.00%	n.a.

(1) Estimated PD and actual default rates are consistent with what is presented in table CR9 (presented annually). Actual and estimated LGD and EAD parameters are reported on a one-month lag. For example, for Q1 2021, estimated percentages are as of December 31, 2019 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 2021					Q4 2020				
	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	994	107	100%	1,048	1,111	957	88	100%	1,000	1,060

	Q3 2020					Q2 2020				
	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	965	97	100%	1,013	1,074	908	102	100%	959	1,017

CCRI – 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 2021						Q4 2020					
		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)	3,428	7,434		1.4	15,207	5,256	3,382	6,886		1.4	14,375	4,702
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					12,384	1,422					9,907	1,276
6	Total						6,678						5,978

		Q3 2020						Q2 2020					
		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)	3,868	6,440		1.4	14,431	4,704	4,480	6,161		1.4	14,897	4,714
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					11,459	1,345					9,794	927
6	Total						6,049						5,641

(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 2021		Q4 2020		Q3 2020		Q2 2020		Q1 2020	
		a	b	a	b	a	b	a	b	a	b
		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	10,629	1,337	10,047	1,612	10,088	1,664	10,407	1,555	9,981	1,364
4	Total subject to the CVA capital charge	10,629	1,337	10,047	1,612	10,088	1,664	10,407	1,555	9,981	1,364

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 2021									Q4 2020								
		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)		2	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	3
Financial institutions		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Securities firms		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corporates		-	-	-	-	-	634	-	-	634	-	-	-	-	-	632	-	-	632
Regulatory retail portfolios		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other assets ⁽¹⁾		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		2	-	-	-	-	634	-	-	636	3	-	-	-	-	632	-	-	635

Regulatory portfolio	Risk weight	Q3 2020									Q2 2020								
		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)		4	-	-	-	-	-	-	-	4	6	-	-	-	-	-	-	-	6
Financial institutions		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Securities firms		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corporates		-	-	-	-	-	653	-	-	653	-	-	-	-	-	392	-	-	392
Regulatory retail portfolios		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other assets ⁽¹⁾		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		4	-	-	-	-	653	-	-	657	6	-	-	-	-	392	-	-	398

(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 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	2,079	0.07%	482	46.5%	0.70	382	18.4%
	0.15 to < 0.25	2,623	0.18%	486	42.1%	2.06	839	32.0%
	0.25 to < 0.50	1,171	0.36%	226	50.6%	1.45	733	62.6%
	0.50 to < 0.75	1,006	0.56%	221	33.9%	1.90	478	47.5%
	0.75 to < 2.50	1,594	0.90%	707	39.5%	1.38	1,050	65.9%
	2.50 to < 10.00	321	4.50%	83	44.5%	1.29	428	133.3%
	10.00 to < 100.00	11	13.90%	5	36.0%	1.08	16	145.5%
	100.00 (Default)	5	100.00%	5	58.7%	1.27	–	0%
Sub-total	8,810	0.58%	2,215	42.9%	1.49	3,926	44.6%	
Sovereign	0.00 to < 0.15	8,778	0.03%	151	11.8%	1.04	159	1.8%
	0.15 to < 0.25	180	0.21%	2	13.1%	0.01	12	6.7%
	0.25 to < 0.50	–	0%	–	0%	–	–	0%
	0.50 to < 0.75	–	0%	–	0%	–	–	0%
	0.75 to < 2.50	–	0%	–	0%	–	–	0%
	2.50 to < 10.00	–	5.07%	1	14.5%	1.00	–	0%
	10.00 to < 100.00	–	0%	–	0%	–	–	0%
	100.00 (Default)	–	0%	–	0%	–	–	0%
Sub-total	8,958	0.03%	154	11.8%	1.02	171	1.9%	
Financial institutions	0.00 to < 0.15	7,165	0.06%	69	50.3%	0.44	1,066	14.9%
	0.15 to < 0.25	1,868	0.17%	35	47.0%	0.87	681	36.5%
	0.25 to < 0.50	213	0.36%	13	50.4%	0.21	96	45.1%
	0.50 to < 0.75	105	0.56%	13	48.3%	0.39	61	58.1%
	0.75 to < 2.50	48	1.16%	21	47.3%	0.69	43	89.6%
	2.50 to < 10.00	–	0%	–	0%	–	–	0%
	10.00 to < 100.00	–	0%	–	0%	–	–	0%
	100.00 (Default)	–	0%	–	0%	–	–	0%
Sub-total	9,399	0.10%	151	49.6%	0.52	1,947	20.7%	
Total (sum of portfolios)	27,167	0.23%	2,520	35.0%	0.99	6,044	22.2%	

(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 2020							
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	2,068	0.07%	499	48.1%	0.76	392	19.0%	
	0.15 to < 0.25	2,544	0.19%	517	40.5%	2.21	856	33.6%	
	0.25 to < 0.50	913	0.36%	254	43.8%	1.92	488	53.5%	
	0.50 to < 0.75	747	0.56%	213	35.3%	1.90	371	49.7%	
	0.75 to < 2.50	1,503	0.90%	725	39.3%	1.52	1,038	69.1%	
	2.50 to < 10.00	320	4.50%	80	41.4%	1.34	404	126.3%	
	10.00 to < 100.00	1	13.90%	4	51.3%	1.00	2	200.0%	
	100.00 (Default)	11	100.00%	3	38.3%	1.00	15	136.4%	
	Sub-total	8,107	0.65%	2,295	42.2%	1.61	3,566	44.0%	
Sovereign	0.00 to < 0.15	7,169	0.03%	153	11.8%	1.37	144	2.0%	
	0.15 to < 0.25	76	0.21%	1	13.1%	0.01	5	7%	
	0.25 to < 0.50	-	0%	-	0%	-	-	0%	
	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	7,245	0.03%	154	11.8%	1.36	149	2.1%	
Financial institutions	0.00 to < 0.15	6,614	0.06%	65	50.8%	0.45	911	13.8%	
	0.15 to < 0.25	1,462	0.17%	39	46.3%	0.84	522	35.7%	
	0.25 to < 0.50	221	0.36%	13	49.7%	0.28	93	42.1%	
	0.50 to < 0.75	109	0.56%	11	48.3%	0.26	63	57.8%	
	0.75 to < 2.50	42	1.30%	20	46.5%	1.09	42	100.0%	
	2.50 to < 10.00	-	0%	-	0%	-	-	0%	
	10.00 to < 100.00	-	0%	-	0%	-	-	0%	
	100.00 (Default)	-	0%	-	0%	-	-	0%	
	Sub-total	8,448	0.10%	148	49.9%	0.51	1,631	19.3%	
Total (sum of portfolios)		23,800	0.27%	2,597	36.0%	1.03	5,346	22.5%	

(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 2021						Q4 2020					
	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	-	9,600	-	1,723	31,146	15,840	-	10,046	-	1,861	29,253	15,472
Securities issued or guaranteed by												
Canadian government	4	346	-	1,530	8,160	12,433	6	215	-	1,752	9,050	10,323
Canadian provincial and municipal governments	-	100	-	205	16,259	20,180	-	145	-	62	15,296	19,040
U.S. Treasury, other U.S. agencies and other foreign governments	94	99	-	155	40,015	33,912	60	66	-	126	32,990	33,558
Other debt securities	-	38	-	-	1,117	1,362	-	60	-	-	1,111	332
Equity securities	-	-	-	-	52,811	69,081	-	-	-	-	48,212	59,554
Total	98	10,183	-	3,613	149,508	152,808	66	10,532	-	3,801	135,912	138,279

	Q3 2020						Q2 2020					
	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	-	9,046	-	2,232	29,596	13,780	-	9,144	-	2,205	28,305	19,721
Securities issued or guaranteed by												
Canadian government	1	185	-	1,897	14,552	15,115	16	287	-	2,118	18,946	18,943
Canadian provincial and municipal governments	-	78	-	289	12,819	19,898	-	137	-	194	11,885	17,981
U.S. Treasury, other U.S. agencies and other foreign governments	60	109	-	-	34,893	36,663	63	211	-	-	43,378	40,788
Other debt securities	-	51	-	-	2,079	607	-	61	-	-	1,490	852
Equity securities	-	-	-	-	56,778	66,655	-	-	-	-	61,452	69,145
Total	61	9,469	-	4,418	150,717	152,718	79	9,840	-	4,517	165,456	167,430

(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 2021		Q4 2020		Q3 2020		Q2 2020		Q1 2020	
	a	b	a	b	a	b	a	b	a	b
	Protection purchased	Protection sold								
Notionals										
Credit default swaps										
Indices, singles names and other	2,234	358	5,632	4,024	5,339	3,449	6,271	4,319	4,923	2,211
Tranches on indices	-	-	-	-	-	-	-	-	-	-
Total return swaps	92	-	-	-	-	-	-	-	-	-
Credit options	-	-	-	-	-	-	-	-	-	-
Other credit derivatives	-	-	-	-	-	-	-	-	-	-
Total notionals	2,326	358	5,632	4,024	5,339	3,449	6,271	4,319	4,923	2,211
Fair values										
Positive fair value (asset)	2	8	13	28	19	52	50	34	-	52
Negative fair value (liability)	(55)	-	(58)	(1)	(83)	-	(50)	(3)	(120)	-

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 2021		Q4 2020		Q3 2020		Q2 2020		Q1 2020		
	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	
1	Exposures to QCCPs (total)										
2		232		171		139		115		174	
3	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	2,778	56	2,436	48	1,350	27	1,356	27	1,794	35
4	(i) OTC derivatives	227	5	48	1	49	1	92	2	74	1
5	(ii) Exchange-traded derivatives	2,385	48	2,119	42	1,174	23	1,174	23	1,602	32
6	(iii) Securities financing transactions	166	3	269	5	127	3	90	2	118	2
7	(iv) Netting sets where cross-product netting has been approved	-	-	-	-	-	-	-	-	-	-
8	Segregated initial margin	5,891		5,536		4,856		6,078		1,802	
9	Non-segregated initial margin	685	-	561	-	401	-	696	-	51	-
10	Pre-funded default fund contributions	590	176	484	123	393	112	493	88	159	139
	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 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	3,111	-	3,111	798	-	798
	Of which :									
2	Residential mortgages	-	-	-	2,495	-	2,495	52	-	52
3	Credit card	1,071	-	1,071	-	-	-	12	-	12
4	Other retail exposures	-	-	-	616	-	616	734	-	734
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	241	-	241	649	-	649
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	4	-	4
9	Lease and receivables	-	-	-	233	-	233	645	-	645
10	Other wholesale	-	-	-	8	-	8	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q4 2020								
		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	3,228	-	3,228	715	-	715
	Of which :									
2	Residential mortgages	-	-	-	2,708	-	2,708	203	-	203
3	Credit card	1,071	-	1,071	-	-	-	12	-	12
4	Other retail exposures	-	-	-	520	-	520	500	-	500
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	247	-	247	793	-	793
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	6	-	6
9	Lease and receivables	-	-	-	233	-	233	787	-	787
10	Other wholesale	-	-	-	14	-	14	-	-	-
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 2020								
		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	2,614	-	2,614	722	-	722
	Of which :									
2	Residential mortgages	-	-	-	2,092	-	2,092	210	-	210
3	Credit card	1,071	-	1,071	-	-	-	12	-	12
4	Other retail exposures	-	-	-	522	-	522	500	-	500
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	268	-	268	793	-	793
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	6	-	6
9	Lease and receivables	-	-	-	254	-	254	787	-	787
10	Other wholesale	-	-	-	14	-	14	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q2 2020								
		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	600	-	600	2,560	-	2,560	728	-	728
	Of which :									
2	Residential mortgages	-	-	-	2,036	-	2,036	216	-	216
3	Credit card	600	-	600	-	-	-	12	-	12
4	Other retail exposures	-	-	-	524	-	524	500	-	500
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	270	-	270	776	-	776
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	6	-	6
9	Lease and receivables	-	-	-	256	-	256	770	-	770
10	Other wholesale	-	-	-	14	-	14	-	-	-
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 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	-	-	-	28	-	28	11	-	11
	Of which :									
2	Residential mortgages	-	-	-	22	-	22	-	-	-
3	Credit card	-	-	-	-	-	-	11	-	11
4	Other retail exposures	-	-	-	6	-	6	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	2	-	2	25	-	25
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	2	-	2	13	-	13
10	Other wholesale	-	-	-	-	-	-	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q4 2020								
		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	-	-	-	21	-	21	18	-	18
	Of which :									
2	Residential mortgages	-	-	-	17	-	17	-	-	-
3	Credit card	-	-	-	-	-	-	18	-	18
4	Other retail exposures	-	-	-	4	-	4	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	2	-	2	13	-	13
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	2	-	2	1	-	1
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 2020								
		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	-	-	-	4	-	4	8	-	8
	Of which :									
2	Residential mortgages	-	-	-	3	-	3	3	-	3
3	Credit card	-	-	-	-	-	-	5	-	5
4	Other retail exposures	-	-	-	1	-	1	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	-	-	-	14	-	14
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	-	-	-	2	-	2
10	Other wholesale	-	-	-	-	-	-	-	-	-
11	Re-securitization	-	-	-	-	-	-	-	-	-

		Q2 2020								
		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	-	-	-	12	-	12	13	-	13
	Of which :									
2	Residential mortgages	-	-	-	9	-	9	9	-	9
3	Credit card	-	-	-	-	-	-	4	-	4
4	Other retail exposures	-	-	-	3	-	3	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Non-Retail	-	-	-	1	-	1	22	-	22
	Of which :									
7	Loans to corporates	-	-	-	-	-	-	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	12	-	12
9	Lease and receivables	-	-	-	1	-	1	10	-	10
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 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	4,423	-	-	-	-	1,321	3,102	-	-	145	309	-	-	11	25	-	-
2	Traditional securitization	4,423	-	-	-	-	1,321	3,102	-	-	145	309	-	-	11	25	-	-
3	Of which securitization	4,423	-	-	-	-	1,321	3,102	-	-	145	309	-	-	11	25	-	-
4	Of which retail underlying	4,182	-	-	-	-	1,321	2,861	-	-	145	285	-	-	11	23	-	-
5	Of which wholesale	241	-	-	-	-	-	241	-	-	-	24	-	-	-	2	-	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		Q4 2020																
		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	4,546	-	-	-	-	1,320	3,226	-	-	144	322	-	-	12	25	-	-
2	Traditional securitization	4,546	-	-	-	-	1,320	3,226	-	-	144	322	-	-	12	25	-	-
3	Of which securitization	4,546	-	-	-	-	1,320	3,226	-	-	144	322	-	-	12	25	-	-
4	Of which retail underlying	4,299	-	-	-	-	1,320	2,979	-	-	144	297	-	-	12	23	-	-
5	Of which wholesale	247	-	-	-	-	-	247	-	-	-	25	-	-	-	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 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 2020																
		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	3,953	-	-	-	-	1,321	2,632	-	-	144	263	-	-	11	21	-	-
2	Traditional securitization	3,953	-	-	-	-	1,321	2,632	-	-	144	263	-	-	11	21	-	-
3	Of which securitization	3,953	-	-	-	-	1,321	2,632	-	-	144	263	-	-	11	21	-	-
4	Of which retail underlying	3,685	-	-	-	-	1,321	2,364	-	-	144	236	-	-	11	19	-	-
5	Of which wholesale	268	-	-	-	-	-	268	-	-	-	27	-	-	-	2	-	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		Q2 2020																
		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	3,430	-	-	-	-	250	3,180	-	-	37	318	-	-	3	26	-	-
2	Traditional securitization	3,430	-	-	-	-	250	3,180	-	-	37	318	-	-	3	26	-	-
3	Of which securitization	3,430	-	-	-	-	250	3,180	-	-	37	318	-	-	3	26	-	-
4	Of which retail underlying	3,160	-	-	-	-	250	2,910	-	-	37	291	-	-	3	24	-	-
5	Of which wholesale	270	-	-	-	-	-	270	-	-	-	27	-	-	-	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

(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 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	1,398	4	45	–	–	53	694	700	–	8	99	105	–	1	8	8	–
2 Traditional securitization	1,398	4	45	–	–	53	694	700	–	8	99	105	–	1	8	8	–
3 Of which securitization	1,398	4	45	–	–	53	694	700	–	8	99	105	–	1	8	8	–
4 Of which retail underlying	798	–	–	–	–	53	45	700	–	8	8	105	–	1	1	8	–
5 Of which wholesale	600	4	45	–	–	–	649	–	–	–	91	–	–	–	7	–	–
6 Of which re-securitization	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
7 Of which senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8 Of which non-senior	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Q4 2020																	
	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	1,380	61	67	–	–	203	805	500	–	28	120	80	–	2	10	6	–
2 Traditional securitization	1,380	61	67	–	–	203	805	500	–	28	120	80	–	2	10	6	–
3 Of which securitization	1,380	61	67	–	–	203	805	500	–	28	120	80	–	2	10	6	–
4 Of which retail underlying	660	55	–	–	–	203	12	500	–	28	2	80	–	2	–	6	–
5 Of which wholesale	720	6	67	–	–	–	793	–	–	–	118	–	–	–	10	–	–
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 2020																
		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	1,397	51	67	-	-	210	805	500	-	32	120	80	-	3	10	6	-
2	Traditional securitization	1,397	51	67	-	-	210	805	500	-	32	120	80	-	3	10	6	-
3	Of which securitization	1,397	51	67	-	-	210	805	500	-	32	120	80	-	3	10	6	-
4	Of which retail underlying	677	45	-	-	-	210	12	500	-	32	2	80	-	3	1	6	-
5	Of which wholesale	720	6	67	-	-	-	793	-	-	-	118	-	-	9	-	-	-
6	Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		Q2 2020																
		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	1,448	6	50	-	-	216	788	500	-	30	109	80	-	2	9	6	-
2	Traditional securitization	1,448	6	50	-	-	216	788	500	-	30	109	80	-	2	9	6	-
3	Of which securitization	1,448	6	50	-	-	216	788	500	-	30	109	80	-	2	9	6	-
4	Of which retail underlying	728	-	-	-	-	216	12	500	-	30	2	80	-	2	-	6	-
5	Of which wholesale	720	6	50	-	-	-	776	-	-	-	107	-	-	9	-	-	-
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.