



# **Pillar 3 Report and Supplementary Regulatory Capital Disclosure**

For the period ended  
July 31, 2019

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This document is unaudited and should be read in conjunction with our quarterly report to shareholders and news release for Q3/19, and our 2018 annual report (including audited consolidated financial statements and accompanying management's discussion and analysis). Additional financial information is also available through our quarterly investor presentations as well as the quarterly conference call webcast. CIBC prepares its consolidated financial statements in accordance with International Financial Reporting Standards (IFRS). For Basel-related terms used in this package, refer to the Glossary. All amounts in this document are in millions of Canadian dollars, unless otherwise stated.

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### **SUPPLEMENTARY REGULATORY CAPITAL DISCLOSURES**

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# PILLAR 3 REPORT

## PILLAR 3 REPORT INDEX

The index below provides a listing of Pillar 3 disclosure requirements issued by the Basel Committee of Banking Supervision (BCBS) which are currently effective for CIBC, along with their locations. The disclosures are located in our annual report, and supplementary packages, which may be found on our website (www.cibc.com). No information on CIBC's website, including the supplementary packages, should be considered incorporated herein by reference.

The credit risk framework within the Capital Adequacy Requirements Guideline issued by the Office of the Superintendent of Financial Institutions (OSFI) is inclusive of requirements relating to counterparty credit risk, securitization activities, as well as other items such as settlement risk, equity investments in funds, and amounts below the threshold for capital deductions which are subject to a 250% risk-weight. Pages 51 to 56 of this document and disclosures in CIBC's 2018 Annual Report are prepared on a basis where these amounts are considered to be regulatory exposures or RWA relating to credit risk (i.e. credit risk related disclosures are generally inclusive of all or some of these amounts, depending upon the nature of the applicable disclosure), whereas the Pillar 3 report on pages 1 to 50 of this document provides a disaggregation of these amounts.

Topic	Identifier	Table and templates	Pillar 3 Report	2018 Annual Report	Supplementary Financial Information
			Page references		
Overview of risk management, key prudential metrics and RWA	KM2	Key metrics - TLAC requirements (at resolution group level)	3	37, 41-47, 50-52, 54, 60, 64, 67, 68, 70, 76-78	
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	CR4	SA – credit risk exposure and CRM effects	18	31, 46, 47, 51, 52-55	
	CR5	SA – exposures by asset classes and risk weights	20		
	CRE	Qualitative disclosures related to IRB models			
	CR6	IRB – Credit risk exposures by portfolio and PD range <sup>(3)</sup>	22		
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	CR8	RWA flow statements of credit risk exposures under IRB	5		
CR9	IRB – Backtesting of PD per portfolio <sup>(3)</sup>	n/a <sup>(5)</sup>			
CR10	IRB (specialized lending and equities under the simple risk weight method)	30			

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			<b>Page references</b>		
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	CCR5	Composition of collateral for counterparty credit risk exposure	40		
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	CCR7	RWA flow statements of counterparty credit risk exposures under the Internal Model Method (IMM)	n/a <sup>(6)</sup>		
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	SEC1	Securitization exposures in the banking book	43		
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Market risk		n/a <sup>(8)</sup>			

(1) CCA is available at <https://www.cibc.com/en/about-cibc/investor-relations/regulatory-capital-instruments.html>.

(2) CIBC is not a global systemically important bank (G-SIB).

(3) There are several key differences between Basel and IFRS 9 which could lead to significantly different estimates for PD and loss given default (LGD). Basel parameters reflect long run historical experience including periods of downturn and adjustments for conservatism, whereas IFRS 9 parameters are point-in-time estimates based on forward-looking information. See the "Accounting and control matters" section in our 2018 Annual Report for additional details.

(4) CIBC does not use credit derivatives to reduce RWA.

(5) Template CR9 is only required to be disclosed on an annual basis. Please refer to CIBC's Supplementary Regulatory Capital Disclosure and Pillar 3 Report for the period ended October 31, 2018, which may be found on our website ([www.cibc.com](http://www.cibc.com)).

(6) We have no counterparty credit risk exposures under the IMM method as at July 31, 2019.

(7) Excludes mortgages securitized through programs sponsored by the Canada Mortgage Housing Corporation, including the creation of mortgage-backed securities (MBS) under the National Housing Act MBS Program and the Canada Mortgage Bond Program. These exposures are risk-weighted under the credit risk framework.

(8) We have elected to apply the exception permitted in the "Pillar 3 Disclosure Requirements" guideline issued by OSFI to provide the revised Pillar 3 disclosure requirements relating to market risk when the second phase of the revised Pillar 3 disclosure requirements comes into effect.

n/a Not applicable.

## KM2: KEY METRICS - TLAC REQUIREMENTS (AT RESOLUTION GROUP LEVEL) <sup>(1)</sup>

(\$ millions)

	Q3/19	Q2/19	Q1/19
	<u>a</u>	<u>b</u>	<u>c</u>
1 TLAC available	<b>41,504</b>	37,012	34,652
2 Total RWA at the level of the resolution group	<b>236,836</b>	234,816	225,663
3 TLAC ratio: TLAC as a percentage of RWA (row 1/row 2) (%)	<b>17.5%</b>	15.8%	15.4%
4 Leverage ratio exposure measure at the level of the resolution group	<b>702,918</b>	696,026	674,962
5 TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1/row 4) (%)	<b>5.9%</b>	5.3%	5.1%
6a Does the subordination exemption in the antepenultimate paragraph of Section 11 of the Financial Stability Board (FSB) TLAC Term Sheet apply?	<b>Yes</b>	Yes	Yes
6b Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	<b>No</b>	No	No
6c If the capped subordination exemption applies, the amount of funding issued that ranks pari passu with Excluded Liabilities and that is recognized as external TLAC, divided by funding issued that ranks pari passu with Excluded Liabilities and that would be recognized as external TLAC if no cap was applied (%)	<b>n/a</b>	n/a	n/a

(1) The Canadian bail-in regime, including OSFI's TLAC Guideline, came into effect on September 23, 2018. Under this regime, CIBC is required to meet target TLAC requirements by November 1, 2021. As a domestic systemically important bank (D-SIB), CIBC will be subject to a target risk-based TLAC Ratio of 23.25% (comprised of a minimum ratio of 21.5% and the current Domestic Stability Buffer of 1.75%) and a TLAC Leverage Ratio of 6.75%. In May 2018, OSFI issued a final guideline on TLAC disclosure requirements that required D-SIBs to begin disclosing their TLAC and TLAC leverage ratios in Q1/19.

n/a Not applicable.

## OV1: OVERVIEW OF RWA

(\$ millions)

	Q3/19		Q2/19	Q1/19	Q4/18
	a	b	c	d	e
	RWA <sup>(1)</sup>	Minimum capital requirements	RWA <sup>(1)</sup>		
1 Credit risk (excluding counterparty credit risk)	176,384	14,111	175,655	168,663	165,470
2 Of which: SA <sup>(2)</sup>	49,698	3,976	49,015	45,325	44,739
Of which: supervisory slotting approach	347	28	389	431	497
3 Of which: AIRB approach	126,339	10,107	126,251	122,907	120,234
4 Counterparty credit risk <sup>(3)(4)</sup>	17,057	1,365	17,004	14,902	11,584
Of which: current exposure method (CEM)	-	-	-	-	6,746
Of which: CVA capital charge	6,151	492	6,705	5,790	4,236
Of which: exposures to central counterparties	413	33	401	387	602
5 Of which: standardized approach for counterparty credit risk (SA-CCR)	10,493	839	9,898	8,725	-
6 Of which: IMM	-	-	-	-	-
7 Equity positions in banking book under market-based approach	-	-	-	-	-
8 Equity investments in funds - look-through approach <sup>(5)</sup>	383	31	370	349	314
9 Equity investments in funds - mandate-based approach <sup>(5)</sup>	12	1	19	3	3
10 Equity investments in funds - fall-back approach <sup>(5)</sup>	-	-	-	-	-
11 Settlement risk	-	-	1	-	-
12 Securitization exposures in banking book	1,639	131	1,409	1,538	1,113
12a Of which: subject to the transitional arrangement <sup>(6)</sup>	(698)	(56)	(698)	(698)	n/a
13 Of which: internal ratings-based approach (IRBA) (Q4/18: IRB ratings-based approach (RBA))	370	30	266	252	871
14 Of which: external ratings-based approach (ERBA), including internal assessment approach (IAA) (Q4/18: IRB Supervisory Formula Approach (SFA))	1,757	141	1,708	1,852	242
15 Of which: SA (Q4/18: SA/simplified supervisory formula approach (SSFA)) <sup>(7)</sup>	210	17	133	132	-
16 Market risk	8,682	695	7,912	8,498	6,383
17 Of which: SA	35	3	41	57	33
18 Of which: IMM	8,647	692	7,871	8,441	6,350
19 Operational risk	28,150	2,252	27,678	27,154	26,626
20 Of which: Basic Indicator Approach	-	-	-	-	-
21 Of which: SA <sup>(8)</sup>	-	-	-	-	-
22 Of which: Advanced Measurement Approach <sup>(8)</sup>	28,150	2,252	27,678	27,154	26,626
23 Amounts below the thresholds for deduction (subject to 250% risk-weight)	4,529	362	4,768	4,556	4,651
24 Floor adjustment	-	-	-	-	-
25 Total (1+4+7+8+9+10+11+12+16+19+23+24)	236,836	18,947	234,816	225,663	216,144

(1) Amounts are inclusive of a 6% scaling factor adjustment.

(2) Includes RWA of \$5,433 million (Q2/19: \$5,656 million) relating to other assets that are subject to the credit risk framework but are not included in the standardized or IRB frameworks. Also includes RWA of \$455 million (Q2/19: \$446 million) relating to non-trading equity investments.

(3) Comprises derivative and repo-style transactions.

(4) Prior to Q1/19, capital requirements relating to counterparty credit risk, other than those arising from the CVA capital charge or from exposures to central counterparties, were calculated using the current exposure method.

(5) Equity investments in funds are only included in table OV1.

(6) OSFI has permitted the initial impact of the adoption of the securitization framework to be phased in over a one-year period as a negative adjustment to RWA.

(7) Includes securitization exposures which are risk-weighted at 1250%.

(8) Certain information has been reclassified to conform to the presentation adopted in Q2/19.

n/a Not applicable.

### Variance analysis (quarter-over-quarter)

The increase in credit risk RWA was primarily due to organic growth across our businesses, partially offset by parameter updates, net foreign exchange movements, and portfolio migration.

The increase in market risk RWA was primarily driven by movement in risk levels, which includes changes in open positions and the market rates affecting these positions, partially offset by model updates.

The increase in operational risk RWA was primarily driven by movement in risk levels, which reflects changes in loss experience, changes in the business environment, internal control factors and gross income, as defined by OSFI.

## CHANGES IN RWA <sup>(1)</sup>

(\$ millions)

	Q3/19 vs. Q2/19			Q2/19 vs. Q1/19	Q1/19 vs. Q4/18	Q4/18 vs. Q3/18
	CR8		Of which all other <sup>(2)</sup>			
		Of which determined under an IRB approach				
<b>Credit risk</b>						
1 Balance at beginning of period	182,222	126,251	55,971	175,109	171,551	167,399
2 Asset size <sup>(3)</sup>	4,707	2,625	2,082	6,429	3,425	4,640
3 Asset quality <sup>(4)</sup>	(449)	(450)	1	(575)	2,279	(424)
4 Model updates <sup>(5)</sup>	(1,397)	(1,081)	(316)	440	(33)	(21)
5 Methodology and policy <sup>(6)</sup>	-	-	-	-	(1,238)	-
6 Acquisitions and disposals	-	-	-	-	-	-
7 Foreign exchange movements	(1,208)	(541)	(667)	1,324	(203)	775
8 Other	(928)	(465)	(463)	(505)	(672)	(818)
9 Balance at end of period	182,947	126,339	56,608	182,222	175,109	171,551
<b>Counterparty credit risk</b>						
Balance at beginning of period	17,004			14,902	11,584	10,943
Asset size <sup>(3)</sup>	862			1,324	(408)	361
Credit quality of counterparties <sup>(4)</sup>	(173)			(228)	(24)	(40)
Model updates <sup>(5)</sup>	-			-	-	-
Methodology and policy <sup>(6)</sup>	-			-	3,782	-
Acquisitions and disposals	-			-	-	-
Foreign exchange movements	(228)			223	40	32
Other	(408)			783	(72)	288
Balance at end of period	17,057			17,004	14,902	11,584
<b>Market risk</b>						
1 Balance at beginning of period	7,912			8,498	6,383	7,154
2 Movement in risk levels <sup>(7)</sup>	843			(731)	2,020	(677)
3 Model updates <sup>(5)</sup>	(116)			161	(51)	(60)
4 Methodology and policy <sup>(6)</sup>	-			-	16	-
5 Acquisitions and disposals	-			-	-	-
6 Foreign exchange movements	43			(16)	130	(34)
7 Other	-			-	-	-
8 Balance at end of period	8,682			7,912	8,498	6,383
<b>Operational risk</b>						
Balance at beginning of period	27,678			27,154	26,626	26,324
Movement in risk levels <sup>(8)</sup>	472			524	528	302
Methodology and policy <sup>(6)</sup>	-			-	-	-
Acquisitions and disposals	-			-	-	-
Balance at end of period	28,150			27,678	27,154	26,626

(1) 2018 amounts reflect Common Equity Tier 1 RWA. Beginning in Q1/19, amounts reflect Total RWA.

(2) Includes credit risk under the standardized and supervisory slotting approaches, equity investment funds under the look-through and mandate based approaches, settlement risk, securitization exposures in the banking book, and amounts below the thresholds for deduction that are risk-weighted at 250%.

(3) Relates to net increase/decrease in the underlying exposures.

(4) Relates to changes in credit risk mitigation and credit quality of the borrower/counterparty.

(5) Relates to internal model or parameter changes.

(6) Relates to regulatory changes implemented on an industry-wide basis and any capital methodology changes implemented within CIBC for our portfolios.

(7) Relates to changes in open positions and market volatility.

(8) Relates to changes in loss experience, business, environment, internal control factors and gross income.



# LI1: DIFFERENCES BETWEEN ACCOUNTING AND REGULATORY SCOPES OF CONSOLIDATION AND MAPPING OF FINANCIAL STATEMENT CATEGORIES WITH REGULATORY RISK CATEGORIES

(\$ millions)

	Q3/19							
	a	b	c	d	e	f	g	
	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation <sup>(2)</sup>	Subject to credit risk framework	Subject to counterparty credit risk framework	Carrying values of items: <sup>(1)</sup>			Not subject to capital requirements or subject to deduction from capital
					Subject to the securitization framework <sup>(3)</sup>	Subject to the market risk framework		
<b>ASSETS</b>								
Cash and non-interest-bearing deposits with banks	3,941	3,941	3,941	-	-	-	-	-
Interest-bearing deposits with banks	12,758	12,757	12,319	-	-	438	-	-
Securities	119,699	119,433 <sup>(4)</sup>	72,390	679	1,608	45,435	-	-
Cash collateral on securities borrowed	4,899	4,899	-	4,899	-	-	-	-
Securities purchased under resale agreements	50,523	50,523	-	50,523	-	-	-	-
Loans	385,761	385,761 <sup>(5)</sup>	380,260	521	1,835	19,778	3,145	-
Other								
Derivative instruments	24,582	24,582 <sup>(6)</sup>	-	24,582	-	23,093	-	-
Customers' liability under acceptances	9,679	9,679	9,679	-	-	-	-	-
Land, buildings and equipment	1,771	1,771	1,771	-	-	-	-	-
Goodwill	5,575	5,575	-	-	-	-	-	5,575
Software and other intangible assets	1,918	1,918	-	-	-	-	-	1,918
Investments in equity-accounted associates and joint ventures	584	1,008	995	-	-	-	-	13
Deferred tax assets	544	544	888	-	-	-	-	(344) <sup>(7)</sup>
Other assets	20,288	20,190	13,376	4,471	8	2,131	204	-
<b>Total assets</b>	<b>642,522</b>	<b>642,581</b>	<b>495,619</b>	<b>85,675</b>	<b>3,451</b>	<b>90,875</b>	<b>10,511</b>	<b>-</b>
<b>LIABILITIES</b>								
<b>Deposits</b>								
Personal	175,196	175,196	-	-	-	-	-	175,196
Business and government	253,976	253,976	-	-	-	519	-	253,457
Bank	12,650	12,650	-	-	-	-	-	12,650
Secured borrowings	39,222	39,222	-	-	-	-	-	39,222
	<b>481,044</b>	<b>481,044</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>519</b>	<b>-</b>	<b>480,525</b>
<b>Obligations related to securities sold short</b>	<b>13,543</b>	<b>13,543</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12,781</b>	<b>-</b>	<b>762</b>
Cash collateral on securities lent	1,917	1,917	-	1,917	-	-	-	-
Obligations related to securities sold under repurchase agreements	50,097	50,097	-	50,097	-	-	-	-
Other								
Derivative instruments	25,895	25,895 <sup>(6)</sup>	-	16,199	-	23,540	-	-
Acceptances	9,740	9,740	-	-	-	-	-	9,740
Deferred tax liability	38	38	-	-	-	-	-	38
Other liabilities	16,618	16,677	-	-	-	1,857	-	14,820
	<b>52,291</b>	<b>52,350</b>	<b>-</b>	<b>16,199</b>	<b>-</b>	<b>25,397</b>	<b>-</b>	<b>24,598</b>
<b>Subordinated indebtedness</b>	<b>5,620</b>	<b>5,620</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,620</b>
<b>Total liabilities</b>	<b>604,512</b>	<b>604,571</b>	<b>-</b>	<b>68,213</b>	<b>-</b>	<b>38,697</b>	<b>511,505</b>	<b>-</b>

(1) Amounts are included in more than one column if they are subject to more than one risk framework.

(2) CIBC's insurance subsidiaries CIBC Cayman Reinsurance Limited (CIBC Cayman Re), CIBC Life Insurance Company Limited (CIBC Life), and CIBC Reinsurance Company Limited (CIBC Re) are excluded from the scope of regulatory consolidation. Refer to table CC2 for further information.

(3) Excludes securitization exposures in the trading book, which are subject to market risk.

(4) Non-trading securities are subject to credit risk, except for certain asset-backed securities that are risk-weighted under the securitization framework. Securities pledged as initial margin or as contributions to default funds of central counterparties are subject to both credit risk and counterparty credit risk.

(5) Non-trading loans are subject to credit risk only, with the exception of securitization-related loans, which are risk-weighted under the securitization framework. Bankers' acceptances issued by CIBC are considered trading loans and are subject to both credit and market risk.

(6) Trading derivatives are subject to both counterparty credit risk and market risk.

(7) Includes deferred tax liabilities related to goodwill, software and other intangible assets and defined benefit pension assets that are offset against the amounts deducted from regulatory capital.





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

(\$ millions)

	Q3/19				
	a	b	c	d	e
	Total <sup>(1)</sup>	Credit risk framework <sup>(2)</sup>	Securitization framework	Items subject to: Counterparty credit risk framework	
1 Asset carrying value amount under scope of regulatory consolidation (as per template LI1)	632,070	495,619	3,451	85,675	90,875
2 Liabilities carrying value amount under regulatory scope of consolidation (as per template LI1)	93,066	-	-	68,213	38,697
3 Total net amount under regulatory scope of consolidation	539,004	495,619	3,451	17,462	52,178
4 Off-balance sheet amounts <sup>(3)</sup>	280,136	209,131	11,086	59,919	-
5 Differences in valuations	81	81 <sup>(4)</sup>	-	-	-
6 Differences due to different netting rules, other than those already included in row 3 <sup>(5)</sup>	4,354	-	-	4,354	-
7 Differences due to consideration of provisions <sup>(6)</sup>	1,530	1,530	-	-	-
8 Differences due to prudential filters	-	-	-	-	-
9 Gross-up for securities financing transactions <sup>(7)</sup>	104,028	-	-	104,028	-
10 Potential future exposure and alpha for derivatives	24,892	-	-	24,892	-
11 Collateral <sup>(8)</sup>	(160,698)	-	-	(160,698)	-
12 Other <sup>(9)</sup>	(51,987)	-	-	-	(51,987)
<b>13 Exposure amounts considered for regulatory purposes</b>	<b>741,340</b>	<b>706,361</b>	<b>14,537</b>	<b>49,957</b>	<b>191</b>

(1) The total in column a will not equal the sum of columns b through e to the extent that items are subject to regulatory capital charges in more than one framework.

(2) Includes exposures of \$394 million (Q2/19: \$379 million) relating to equity investments in funds.

(3) Comprises off-balance sheet exposures for undrawn commitments, repo-style transactions, derivatives, third-party assets relating to our prime brokerage business and other off-balance sheet items.

(4) Includes basis adjustments for fair value hedges that impact the accounting carrying values but do not impact exposure amounts considered for regulatory purposes.

(5) Netting of exchange traded derivatives is permitted for regulatory purposes only. Netting of certain repo-style transactions cleared through certain central counterparties is permitted for accounting purposes but not for regulatory purposes. A gross-up is therefore required for these repo-style transactions, whereas exposures for exchange-traded derivative transactions are reduced for regulatory purposes.

(6) The accounting carrying value for loans is net of the full allowance for credit losses. For regulatory purposes only allowances on impaired (stage 3) loans that are risk-weighted under the standardized approach are netted against the exposures.

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

(8) Primarily comprises collateral for repo-style transactions, including those settled through qualified central counterparties (QCCPs).

(9) Exposure at default is only considered for securitization positions in the trading book as regulatory capital requirements for all other items subject to the market risk framework are determined based on internally developed market risk models. We use the ERB approach for securitization positions in the trading book.

## CC1: COMPOSITION OF REGULATORY CAPITAL

(\$ millions)

Row	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
	<b>Cross-reference <sup>(1)</sup></b>				
<b>Common Equity Tier 1 (CET1) capital: instruments and reserves</b>					
1 Directly issued qualifying common share capital plus related stock surplus	13,653	A+B 13,568	13,477	13,379	13,334
2 Retained earnings	20,535	C 19,793	19,101	18,537	18,051
3 Accumulated other comprehensive income (AOCI) (and other reserves)	815	D 1,094	752	777	746
4 Directly issued capital subject to phase out from CET1 (only applicable to non-joint stock companies)	n/a	n/a	n/a	n/a	n/a
5 Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)	124	E 124	121	118	118
<b>CET1 capital before regulatory adjustments</b>	<b>35,127</b>	<b>34,579</b>	<b>33,451</b>	<b>32,811</b>	<b>32,249</b>
<b>CET1 capital: regulatory adjustments</b>					
7 Prudential valuation adjustments	28	See footnote 2 28	26	27	55
8 Goodwill (net of related tax liabilities)	5,502	F+G+H 5,569	5,480	5,489	5,436
9 Other intangibles other than mortgage-servicing rights (net of related tax liabilities)	1,649	I+J+AL 1,669	1,641	1,661	1,649
10 Deferred tax assets excluding those arising from temporary differences (net of related tax liabilities)	55	K 51	49	38	19
11 Cash flow hedge reserve	72	L 67	25	(18)	10
12 Shortfall of provisions to expected losses <sup>(3)</sup>	576	See footnote 2 661	662	647	625
13 Securitization gain on sale	-	-	-	-	-
14 Gains and losses due to changes in own credit risk on fair valued liabilities	58	M+AK 40	55	41	48
15 Defined benefit pension fund net assets (net of related tax liabilities)	160	N+O 185	174	284	496
16 Investments in own shares (if not already netted off paid-in capital on reported balance sheet)	3	See footnote 2 5	3	1	-
17 Reciprocal cross holdings in common equity	-	-	-	-	-
18 Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold)	-	-	-	-	-
19 Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold)	-	P+Q -	-	-	-
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	-	R+S -	-	-	-
24 of which: mortgage servicing rights	-	-	-	-	-
25 of which: deferred tax assets arising from temporary differences	-	T -	-	-	-
26 Other deductions or regulatory adjustments to CET1 as determined by OSFI	-	-	-	-	-
27 Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 (AT1) and Tier 2 (T2) to cover deductions	-	-	-	-	-
<b>Total regulatory adjustments to CET1</b>	<b>8,103</b>	<b>8,275</b>	<b>8,115</b>	<b>8,170</b>	<b>8,338</b>
<b>CET1 capital</b>	<b>27,024</b>	<b>26,304</b>	<b>25,336</b>	<b>24,641</b>	<b>23,911</b>
<b>AT1 capital: instruments</b>					
30 Directly issued qualifying AT1 instruments plus related stock surplus <sup>(4)</sup>	2,825	2,575	2,575	2,250	2,250
31 of which: classified as equity under applicable accounting standards	2,825	U 2,575	2,575	2,250	2,250
32 of which: classified as liabilities under applicable accounting standards	-	-	-	-	-
33 Directly issued capital instruments subject to phase out from AT1	303	V+see footnote 5 752	752	1,003	1,003
34 AT1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1)	17	W 17	16	14	16
35 of which: instruments issued by subsidiaries subject to phase out	-	-	-	-	-
<b>AT1 capital before regulatory adjustments</b>	<b>3,145</b>	<b>3,344</b>	<b>3,343</b>	<b>3,267</b>	<b>3,269</b>
<b>AT1 capital: regulatory adjustments</b>					
37 Investments in own AT1 instruments	-	-	-	-	-
38 Reciprocal cross holdings in AT1 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 (T1) capital as determined by OSFI	-	-	-	-	-
41a of which: reverse mortgages	-	-	-	-	-
42 Regulatory adjustments applied to AT1 due to insufficient T2 to cover deductions	-	-	-	-	-
<b>Total regulatory adjustments to AT1 capital</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>AT1 capital</b>	<b>3,145</b>	<b>3,344</b>	<b>3,343</b>	<b>3,267</b>	<b>3,269</b>
<b>T1 capital (T1 = CET1 + AT1)</b>	<b>30,169</b>	<b>29,648</b>	<b>28,679</b>	<b>27,908</b>	<b>27,180</b>
<b>T2 capital: instruments and provisions</b>					
46 Directly issued qualifying T2 instruments plus related stock surplus <sup>(6)</sup>	4,959	X 3,509	3,484	3,430	3,390
47 Directly issued capital instruments subject to phase out from T2	627	Y 615	601	579	586
48 T2 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)	23	Z 23	23	20	21
49 of which: instruments issued by subsidiaries subject to phase out	-	-	-	-	-
50 General allowances	306	AA+AB 302	276	293	291
<b>T2 capital before regulatory adjustments</b>	<b>5,915</b>	<b>4,449</b>	<b>4,384</b>	<b>4,322</b>	<b>4,288</b>

For footnotes, see next page.



## CC1: COMPOSITION OF REGULATORY CAPITAL (continued)

(\$ millions)

Row	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
	<b>Cross-reference <sup>(1)</sup></b>				
52 Investments in own T2 instruments	-	-	-	-	-
53 Reciprocal cross holdings in T2 instruments and other TLAC-eligible instruments	-	-	-	-	-
54 Non-significant investments in the capital of banking, financial and insurance entities and other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, where the institution does not own more than 10% of the issued common share capital of the entity (amount above 10% threshold)	-	-	-	-	-
54a Non-significant investments in the other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs, where the institution does not own more than 10% of the issued common share capital of the entity; amount previously designated for the 5% threshold but that no longer meets the conditions	-	-	-	-	-
55 Significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation	-	-	-	-	-
56 Other deductions from T2 capital	-	-	-	-	-
<b>57 Total regulatory adjustments to T2 capital</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>58 T2 capital</b>	<b>5,915</b>	<b>4,449</b>	<b>4,384</b>	<b>4,322</b>	<b>4,288</b>
<b>59 Total capital (TC = T1 + T2)</b>	<b>36,084</b>	<b>34,097</b>	<b>33,063</b>	<b>32,230</b>	<b>31,468</b>
<b>60 Total RWA</b>	<b>236,836</b>	<b>234,816</b>	<b>225,663</b>	<b>n/a</b>	<b>n/a</b>
60a CET1 Capital RWA <sup>(2)</sup>	n/a	n/a	n/a	216,144	211,820
60b T1 Capital RWA <sup>(2)</sup>	n/a	n/a	n/a	216,303	211,968
60c Total Capital RWA <sup>(2)</sup>	n/a	n/a	n/a	216,462	212,116
<b>Capital ratios</b>					
61 CET1 (as a percentage of RWA)	<b>11.4%</b>	11.2%	11.2%	11.4%	11.3%
62 T1 (as a percentage of RWA)	<b>12.7%</b>	12.6%	12.7%	12.9%	12.8%
63 Total capital (as a percentage of RWA)	<b>15.2%</b>	14.5%	14.7%	14.9%	14.8%
64 Buffer (minimum CET1 requirement plus capital conservation buffer plus G-SIB buffer plus D-SIB buffer expressed as a percentage of RWA)	<b>8.0%</b>	8.0%	8.0%	8.0%	8.0%
65 of which: capital conservation buffer	<b>2.5%</b>	2.5%	2.5%	2.5%	2.5%
66 of which: bank specific countercyclical buffer	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%
67 of which: G-SIB buffer	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%
67a of which: D-SIB buffer	<b>1.0%</b>	1.0%	1.0%	1.0%	1.0%
68 CET1 available to meet buffers (as percentage of RWA)	<b>11.4%</b>	11.2%	11.2%	11.4%	11.3%
<b>OSFI target (minimum + capital conservation buffer + D-SIB buffer (if applicable)) <sup>(8)</sup></b>					
69 CET1 target ratio	<b>8.0%</b>	8.0%	8.0%	8.0%	8.0%
70 T1 capital target ratio	<b>9.5%</b>	9.5%	9.5%	9.5%	9.5%
71 Total capital target ratio	<b>11.5%</b>	11.5%	11.5%	11.5%	11.5%
<b>Amounts below the thresholds for deduction (before risk-weighting)</b>					
72 Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities	<b>452</b>	AG+AI+AJ+ see footnote 9	784	356	188
73 Significant investments in the common stock of financials	<b>924</b>	AD+AE+AF	1,028	838	847
74 Mortgage servicing rights (net of related tax liability)	-	-	-	-	-
75 Deferred tax assets arising from temporary differences (net of related tax liabilities)	<b>888</b>	AC	879	984	1,013
<b>Applicable caps on the inclusion of allowances in T2</b>					
76 Allowances eligible for inclusion in T2 in respect of exposures subject to SA (prior to application of cap)	<b>306</b>	-	302	276	293
77 Cap on inclusion of allowances in T2 under SA	<b>306</b>	AA	302	276	293
78 Allowances eligible for inclusion in T2 in respect of exposures subject to IRBA (prior to application of cap)	-	-	-	-	-
79 Cap on inclusion of allowances in T2 under IRBA	-	AB	-	-	-
<b>Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2013 and 1 Jan 2022)</b>					
80 Current cap on CET1 instruments subject to phase out arrangements	n/a	-	n/a	n/a	n/a
81 Amounts excluded from CET1 due to cap (excess over cap after redemptions and maturities)	n/a	-	n/a	n/a	n/a
82 Current cap on AT1 instruments subject to phase out arrangements	<b>752</b>	V+see footnote 5	752	752	1,003
83 Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities)	-	AH+see footnote 5	851	845	590
84 Current cap on T2 instruments subject to phase out arrangements	<b>1,352</b>	-	1,352	1,352	1,802
85 Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities)	-	-	-	-	-

(1) Cross-referenced to the consolidated balance sheet, refer to table CC2.

(2) Not recorded on the consolidated balance sheet.

(3) Provisions in the shortfall calculation represent stage 1, 2, and 3 allowances for credit losses calculated in accordance with IFRS 9.

(4) Comprised of non-visibility contingent capital (NVCC) preferred shares. All outstanding preferred shares qualify as NVCC.

(5) Comprises CIBC Tier 1 Notes - Series A and Series B due June 30, 2108 (together, the Tier 1 Notes). The CIBC Tier 1 Notes - Series A were redeemed on June 30, 2019.

(6) Comprised of certain debentures which qualify as NVCC.

(7) During 2018, before any capital floor requirement, there were three different levels of RWA for the calculation of CIBC's CET1, Tier 1 and Total capital ratios as CIBC elected in 2014 to phase-in the CVA capital charge as permitted by OSFI. Beginning in Q1/19 the ratios are calculated by reference to the same level of RWA as the phase-in of the CVA capital charge has been completed.

(8) Excludes the 1.75% (Q1/19 and prior: 1.5%) Domestic Stability Buffer that OSFI requires D-SIBs to hold as this buffer requirement is intended to address Pillar 2 risks that are not adequately captured in the Pillar 1 capital requirements. The table above includes only the Pillar 1 capital requirements.

(9) Synthetic positions not recorded on the consolidated balance sheet.

n/a Not applicable.



## CC2: RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET

(\$ millions)

	Q3/19			Cross reference to capital schedule <sup>(2)</sup>
	Balance sheet as in report to shareholders	Insurance entities adjustment <sup>(1)</sup> Deconsolidation	Equity accounting	
<b>Assets</b>				
<b>Cash and non-interest-bearing deposits with banks</b>	3,941	-	-	3,941
<b>Interest-bearing deposits with banks</b>	12,758	(1)	-	12,757
<b>Securities</b>	119,699	(266)	-	119,433
Significant investments in capital of other financial institutions not exceeding regulatory thresholds				-
Non-significant investments in capital of other financial institutions not exceeding regulatory thresholds				84
Significant investments in capital of non-financial institutions				-
Other securities				119,349
<b>Cash collateral on securities borrowed</b>	4,899	-	-	4,899
<b>Securities purchased under resale agreements</b>	50,523	-	-	50,523
<b>Loans</b>	387,532	-	-	387,532
<b>Allowance for credit losses</b>	(1,771)	-	-	(1,771)
General allowance reflected in T2 capital				(306)
Excess in allowance over expected losses reflected in T2 capital				-
Allowances not reflected in regulatory capital				(1,465)
<b>Derivative instruments</b>	24,582	-	-	24,582
<b>Customers' liability under acceptances</b>	9,679	-	-	9,679
<b>Land, buildings and equipment</b>	1,771	-	-	1,771
<b>Goodwill</b>	5,575	-	-	5,575
<b>Software and other intangible assets</b>	1,918	-	-	1,918
<b>Investments in equity-accounted associates and joint ventures</b>	584	-	424	1,008
Significant investments in capital of other financial institutions exceeding regulatory thresholds (10% of CET1)				-
Significant investments in capital of other financial institutions exceeding regulatory thresholds (15% basket of CET1)				-
Significant investments in capital of other financial institutions not exceeding regulatory thresholds				500
Significant investments in capital of other financial institutions related to goodwill				10
Significant investments in capital of other financial institutions related to intangibles				3
Significant investments in capital of non-financial institutions				34
Investment in deconsolidated subsidiaries exceeding regulatory thresholds (10% of CET1)				-
Investment in deconsolidated subsidiaries exceeding regulatory thresholds (15% basket of CET1)				-
Investment in deconsolidated subsidiaries not exceeding regulatory thresholds				424
Non-significant investments in capital of other financial institutions not exceeding regulatory thresholds				-
Non-significant investments in capital of non-financial institutions				37
<b>Deferred tax assets</b>	544	-	-	544
Deferred tax assets excluding those arising from temporary differences				55
Deferred tax assets arising from temporary differences exceeding regulatory thresholds (15% basket of CET1)				-
Deferred tax assets arising from temporary differences not exceeding regulatory thresholds				888
Deferred tax liabilities related to goodwill				(83)
Deferred tax liabilities related to software and other intangible assets				(272)
Deferred tax liabilities related to defined benefit pension fund net assets				(44)
<b>Other assets</b>				
Defined benefit pension fund net assets	204	-	-	204
Other	20,084	(98)	-	19,986
Non-significant investments in capital of other financial institutions not exceeding regulatory thresholds				5
Other				19,981
<b>Total assets</b>	<b>642,522</b>	<b>(365)</b>	<b>424</b>	<b>642,581</b>

For footnotes, see next page.



## CC2: RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET (continued)

(\$ millions)

	Q3/19			Cross reference to capital schedule <sup>(2)</sup>
	Balance sheet as in report to shareholders	Insurance entities adjustment <sup>(1)</sup> Deconsolidation	Equity accounting	
<b>Liabilities</b>				
Deposits	481,044	-	-	481,044
Obligations related to securities sold short	13,543	-	-	13,543
Cash collateral on securities lent	1,917	-	-	1,917
Obligations related to securities sold under repurchase agreements	50,097	-	-	50,097
Derivative instruments	25,895	-	-	25,895
Acceptances	9,740	-	-	9,740
Deferred tax liabilities	38	-	-	38
Other liabilities	16,618	174	(115)	16,677
Subordinated indebtedness	5,620	-	-	5,620
Subordinated indebtedness allowed for inclusion in T2 capital				4,959
Subordinated indebtedness allowed for inclusion in T2 capital subject to phase out				627
Regulatory capital amortization of maturing subordinated indebtedness not allowed for T2 capital				-
Subordinated indebtedness excluded from T2 capital due to cap				-
Subordinated indebtedness not allowed for T2 capital				34
<b>Total liabilities</b>	<b>604,512</b>	<b>174</b>	<b>(115)</b>	<b>604,571</b>
<b>Equity</b>				
Preferred shares	2,825	-	-	2,825
Preferred shares allowed for inclusion into additional T1 capital				2,825
Preferred shares allowed for inclusion into additional T1 capital subject to phase out				-
Preferred shares excluded from additional T1 capital due to cap				-
Common shares	13,525	-	-	13,525
Common shares – treasury positions				2
Common shares				13,523
Contributed surplus	128	-	-	128
Retained earnings	20,535	(538)	538	20,535
Gains and losses due to changes in own credit risk on fair valued liabilities				55
Other retained earnings				20,480
AOCI	815	(1)	1	815
Cash flow hedges				72
Net fair value gains (losses) arising from changes in institution's own credit risk				3
Other				740
Non-controlling interests	182	-	-	182
Portion allowed for inclusion into CET1				124
Portion allowed for inclusion into additional T1 capital				17
Portion allowed for inclusion into T2 capital				23
Portion not allowed for regulatory capital				18
<b>Total equity</b>	<b>38,010</b>	<b>(539)</b>	<b>539</b>	<b>38,010</b>
<b>Total liabilities and equity</b>	<b>642,522</b>	<b>(365)</b>	<b>424</b>	<b>642,581</b>

(1) Comprises our insurance subsidiaries: CIBC Cayman Re, CIBC Life, and CIBC Re which are excluded from the regulatory scope of consolidation. CIBC Cayman Re provides life and health reinsurance to Canadian insurance and international reinsurance companies. CIBC Life is primarily involved in direct underwriting of life insurance products and has assumed a closed creditor product block of business from a Canadian underwriter; current policies in-force include accidental death, hospital accident, hospital cash benefit plans, critical accident plan, accident recovery plan, term life, and creditor life and disability insurance products. As at July 31, 2019 there were no business activities conducted out of CIBC Re. As at July 31, 2019, CIBC Cayman Re had \$207 million in assets, \$115 million in liabilities, and \$92 million in equity, CIBC Life had \$158 million in assets, \$(59) million in liabilities, and \$217 million in equity, and CIBC Re had nil in assets, \$(230) in liabilities and \$230 million in equity.

(2) Refer to table CC1.

## CHANGES IN REGULATORY CAPITAL

(\$ millions)

	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
<b>CET1 capital</b>					
Opening amount	<b>26,304</b>	25,336	24,641	23,911	23,225
Shares issued in lieu of cash dividends (add back)	39	47	57	48	46
Other issue of common shares	41	49	47	46	48
Redeemed capital	-	-	-	-	-
Purchase of common shares for cancellation	-	-	-	(52)	(52)
Premium on purchase of common shares for cancellation	-	-	-	(163)	(150)
Gross dividends (deduction)	(651)	(649)	(626)	(626)	(612)
Profit for the quarter (attributable to shareholders of the parent company)	1,392	1,341	1,178	1,266	1,365
Removal of own credit spread (net of tax)	(18)	15	(14)	7	(13)
Change in AOCI balances included in regulatory capital					
Currency translation differences	(242)	283	(28)	181	151
Securities measured at fair value through other comprehensive income (FVOCI)	35	31	85	(19)	(45)
Cash flow hedges	5	42	43	(28)	10
Post-employment defined benefit plans	(88)	(8)	(135)	(95)	219
Goodwill and other intangible assets (deduction, net of related tax liabilities)	87	(117)	29	(65)	(61)
Shortfall of allowance to expected losses	85	1	(15)	(22)	-
Other, including regulatory adjustments and transitional arrangements					
Deferred tax assets that rely on future profitability (excluding those arising from temporary differences)	(4)	(2)	(11)	(19)	(14)
Defined benefit pension fund net assets	25	(11)	110	212	(237)
Significant investments in financial institutions (amount above 10% threshold)	-	-	-	-	-
Amount exceeding 15% threshold	-	-	-	-	-
Prudential valuation adjustments	-	(2)	1	28	(5)
Other	14	(52)	(26)	31	36
Closing amount	<b>27,024</b>	26,304	25,336	24,641	23,911
<b>AT1 capital</b>					
Opening amount	<b>3,344</b>	3,343	3,267	3,269	3,265
AT1 eligible capital issues	250	-	325	-	-
Redeemed capital <sup>(1)</sup>	(452)	-	-	-	-
Impact of the cap on inclusion for instruments subject to phase out	-	-	(251)	-	-
Other, including regulatory adjustments and transitional arrangements	3	1	2	(2)	4
Closing amount	<b>3,145</b>	3,344	3,343	3,267	3,269
<b>Total T1 capital</b>	<b>30,169</b>	29,648	28,679	27,908	27,180
<b>T2 capital</b>					
Opening amount	<b>4,449</b>	4,384	4,322	4,288	4,895
New T2 eligible capital issues	1,500	-	-	-	-
Redeemed capital	-	-	-	-	(600)
Amortization adjustments	-	-	-	-	-
Impact of the cap on inclusion for instruments subject to phase out	-	-	-	-	-
Other, including regulatory adjustments and transitional arrangements	(34)	65	62	34	(7)
Closing amount	<b>5,915</b>	4,449	4,384	4,322	4,288
<b>Total capital</b>	<b>36,084</b>	34,097	33,063	32,230	31,468

(1) Due to the application of the cap on inclusion of non-qualifying capital instruments the redemption of \$848 million of the \$1,300 million of CIBC Tier 1 notes - Series A due June 30, 2108 in Q3/19 did not impact Tier 1 capital.



## TLAC1: TLAC COMPOSITION (AT RESOLUTION GROUP LEVEL)

(\$ millions)

	Q3/19	Q2/19	Q1/19
<b>Regulatory capital elements of TLAC and adjustments</b>			
1 CET1 capital	27,024	26,304	25,336
2 AT1 capital before TLAC adjustments	3,145	3,344	3,343
3 AT1 ineligible as TLAC as issued out of subsidiaries to third parties	-	-	-
4 Other adjustments	-	-	-
5 AT1 instruments eligible under the TLAC framework	3,145	3,344	3,343
6 T2 capital before TLAC adjustments	5,915	4,449	4,384
7 Amortized portion of T2 instruments where remaining maturity > 1 year	-	-	-
8 T2 capital ineligible as TLAC as issued out of subsidiaries to third parties	-	-	-
9 Other adjustments	-	-	-
10 T2 instruments eligible under the TLAC framework	5,915	4,449	4,384
11 TLAC arising from regulatory capital	36,084	34,097	33,063
<b>Non-regulatory capital elements of TLAC</b>			
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	5,423	2,936	1,589
14 Of which: amount eligible as TLAC after application of the caps	-	-	-
15 External TLAC instruments issued by funding vehicles prior to January 1, 2022	-	-	-
16 Eligible ex ante commitments to recapitalize a G-SIB in resolution	-	-	-
17 TLAC arising from non-regulatory capital instruments before adjustments	5,423	2,936	1,589
<b>Non-regulatory capital elements of TLAC: adjustments</b>			
18 TLAC before deductions	41,507	37,033	34,652
19 Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs)	n/a	n/a	n/a
20 Deduction of investments in own other TLAC liabilities	(3)	(21)	-
21 Other adjustments to TLAC	-	-	-
22 TLAC available after deductions	41,504	37,012	34,652
<b>RWA and leverage exposure measure for TLAC purposes</b>			
23 Total RWA adjusted as permitted under the TLAC regime	236,836	234,816	225,663
24 Leverage exposure measure	702,918	696,026	674,962
<b>TLAC ratios and buffers<sup>(1)</sup></b>			
25 TLAC Ratio (as a percentage of RWA adjusted as permitted under the TLAC regime) (%)	17.5%	15.8%	15.4%
26 TLAC Leverage Ratio (as a percentage of leverage exposure) (%)	5.9%	5.3%	5.1%
27 CET1 (as a percentage of RWA) available after meeting the resolution group's minimum capital and TLAC requirements <sup>(2)</sup>	n/a	n/a	n/a
28 Institution-specific buffer (capital conservation buffer plus countercyclical buffer plus higher loss absorbency, expressed as a percentage of RWA)	3.5%	3.5%	3.5%
29 Of which: capital conservation buffer	2.5%	2.5%	2.5%
30 Of which: bank specific countercyclical buffer	0.0%	0.0%	0.0%
31 Of which: D-SIB/G-SIB buffer	1.0%	1.0%	1.0%

(1) The Canadian bail-in regime, including OSFI's TLAC Guideline, came into effect on September 23, 2018. Under this regime, CIBC is required to meet target TLAC requirements by November 1, 2021. As a D-SIB, CIBC will be subject to a target risk-based TLAC Ratio of 23.25% (comprised of a minimum ratio of 21.5% and the current Domestic Stability Buffer of 1.75%) and a TLAC Leverage Ratio of 6.75%.

(2) Not applicable until Q1/22.

n/a Not applicable.



## TLAC3: RESOLUTION ENTITY - CREDITOR RANKING AT LEGAL ENTITY LEVEL <sup>(1)(2)</sup>

(\$ millions)

	Q3/19					
	Creditor ranking					
	(most junior)				(most senior)	
1 Description of creditor ranking	Common shares	Preferred shares	Subordinated debt	Bail-in debt <sup>(3)</sup>	Other liabilities <sup>(4)</sup>	Total
2 Total capital and liabilities net of credit risk mitigation	13,525	2,825	5,558	5,718	-	27,626
3 Subset of row 2 that are excluded liabilities	2	-	61	4	-	67
4 Total capital and liabilities less excluded liabilities (row 2 minus row 3)	13,523	2,825	5,497	5,714	-	27,559
5 Subset of row 4 that are potentially eligible as TLAC	13,523	2,825	5,497	5,419	-	27,264
6 Subset of row 5 with 1 year ≤ residual maturity < 2 years	-	-	-	93	-	93
7 Subset of row 5 with 2 years ≤ residual maturity < 5 years	-	-	-	5,183	-	5,183
8 Subset of row 5 with 5 years ≤ residual maturity < 10 years	-	-	4,964	133	-	5,097
9 Subset of row 5 with residual maturity ≥ 10 years, but excluding perpetual securities	-	-	533	10	-	543
10 Subset of row 5 that is perpetual securities	13,523	2,825	-	-	-	16,348

(\$ millions)

	Q2/19					
	Creditor ranking					
	(most junior)				(most senior)	
1 Description of creditor ranking	Common shares	Preferred shares	Subordinated debt	Bail-in debt <sup>(3)</sup>	Other liabilities <sup>(4)</sup>	Total
2 Total capital and liabilities net of credit risk mitigation	13,443	2,575	4,061	3,039	-	23,118
3 Subset of row 2 that are excluded liabilities	-	-	4	22	-	26
4 Total capital and liabilities less excluded liabilities (row 2 minus row 3)	13,443	2,575	4,057	3,017	-	23,092
5 Subset of row 4 that are potentially eligible as TLAC	13,443	2,575	4,057	2,912	-	22,987
6 Subset of row 5 with 1 year ≤ residual maturity < 2 years	-	-	-	30	-	30
7 Subset of row 5 with 2 years ≤ residual maturity < 5 years	-	-	-	2,750	-	2,750
8 Subset of row 5 with 5 years ≤ residual maturity < 10 years	-	-	3,496	132	-	3,628
9 Subset of row 5 with residual maturity ≥ 10 years, but excluding perpetual securities	-	-	561	-	-	561
10 Subset of row 5 that is perpetual securities	13,443	2,575	-	-	-	16,018

(\$ millions)

	Q1/19					
	Creditor ranking					
	(most junior)				(most senior)	
1 Description of creditor ranking	Common shares	Preferred shares	Subordinated debt	Bail-in debt <sup>(3)</sup>	Other liabilities <sup>(4)</sup>	Total
2 Total capital and liabilities net of credit risk mitigation	13,350	2,575	4,059	1,642	-	21,626
3 Subset of row 2 that are excluded liabilities	4	-	-	-	-	4
4 Total capital and liabilities less excluded liabilities (row 2 minus row 3)	13,346	2,575	4,059	1,642	-	21,622
5 Subset of row 4 that are potentially eligible as TLAC	13,346	2,575	4,059	1,589	-	21,569
6 Subset of row 5 with 1 year ≤ residual maturity < 2 years	-	-	-	25	-	25
7 Subset of row 5 with 2 years ≤ residual maturity < 5 years	-	-	-	1,432	-	1,432
8 Subset of row 5 with 5 years ≤ residual maturity < 10 years	-	-	3,500	132	-	3,632
9 Subset of row 5 with residual maturity ≥ 10 years, but excluding perpetual securities	-	-	559	-	-	559
10 Subset of row 5 that is perpetual securities	13,346	2,575	-	-	-	15,921

(1) Presented for CIBC at the legal entity level and therefore instruments issued by subsidiaries and special purpose entities are excluded.

(2) Common shares are presented at book value, preferred shares are presented at stated value and subordinated debt and bail-in-debt are presented at face value.

(3) Bail-in debt instruments are those liabilities which are subject to the bank recapitalization (bail-in) conversion regulations issued by the Department of Finance (Canada). Senior debt issued on or after September 23, 2018, with an original term to maturity of more than 400 days (including explicit or embedded options) that is unsecured or partially secured is subject to bail-in. Consumer deposits, certain derivatives, covered bonds, and certain structured notes would not be eligible for bail-in. While bail-in debt instruments and other senior unsecured liabilities issued by Canadian D-SIBs rank equally in the event of liquidation, only bail-in debt is subject to conversion under the bail-in regime. Bail-in debt issued by Canadian D-SIBs qualifies as TLAC pursuant to the exemption from the subordination requirement under the antepenultimate paragraph of Section 11 of the FSB TLAC Term Sheet.

(4) Disclosure not currently required by OSFI.





## LR1: SUMMARY COMPARISON OF ACCOUNTING ASSETS VS. LEVERAGE RATIO EXPOSURE MEASURE

(\$ millions)

Row <sup>(1)</sup>

	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
1 Total consolidated assets as per published financial statements	642,522	634,109	614,647	597,099	595,025
2 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	59	171	37	38	37
3 Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference	(3,144)	(2,656)	(3,168)	-	-
4 Adjustment for fiduciary assets recognized on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure	-	-	-	-	-
5 Adjustment for derivative financial instruments	4,943	6,926	4,812	5,990	3,892
6 Adjustment for securities financing transactions (i.e. repos and similar secured lending)	(1,743)	(1,874)	(681)	(1,815)	(1,165)
7 Adjustment for off-balance sheet items (i.e. credit equivalent amounts of off-balance sheet exposures)	73,795	73,379	72,029	65,826	65,366
8 Other adjustments	(13,514)	(14,029)	(12,714)	(13,192)	(13,986)
9 <b>Leverage ratio exposure measure</b>	<b>702,918</b>	<b>696,026</b>	<b>674,962</b>	<b>653,946</b>	<b>649,169</b>

(1) To enhance comparability, the information for Q4/18 and prior quarters has been re-arranged to align with the row numbers in OSFI's "Leverage Ratio Disclosure Requirements" published in November 2018. The information for Q4/18 and prior quarters has not changed, however certain subtotals have been restated to align with the current presentation.

## LR2: LEVERAGE RATIO COMMON DISCLOSURE TEMPLATE

(\$ millions)

Row <sup>(1)</sup>

	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
<b>On-balance sheet exposures</b>					
1 On-balance sheet items (excluding derivatives, securities financing transactions (SFTs) and grandfathered securitization exposures, but including collateral)	559,434	555,436	533,494	526,651	522,696
2 Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework (IFRS)	-	-	-	-	-
3 (Deductions of receivables assets for cash variation margin provided in derivative transactions)	(5,469)	(5,793)	(4,653)	(4,944)	(4,928)
4 (Asset amounts deducted in determining T1 capital)	(8,045)	(8,235)	(8,060)	(8,130)	(8,291)
5 <b>Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 to 4)</b>	<b>545,920</b>	<b>541,408</b>	<b>520,781</b>	<b>513,577</b>	<b>509,477</b>
<b>Derivative exposures</b>					
6 Replacement cost associated with all derivative transactions	8,775	7,911	6,656	6,074	5,973
7 Add-on amounts for potential future exposure associated with all derivative transactions	20,749	21,117	19,329	21,346	19,922
8 (Exempted central counterparty (CCP)-leg of client cleared trade exposures)	-	-	-	-	-
9 Adjusted effective notional amount of written credit derivatives	195	33	-	211	13
10 (Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(195)	(33)	-	(211)	(13)
11 <b>Total derivatives exposures (sum of lines 6 to 10)</b>	<b>29,524</b>	<b>29,028</b>	<b>25,985</b>	<b>27,420</b>	<b>25,895</b>
<b>SFT exposures</b>					
12 Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	55,422	54,085	56,848	48,938	49,596
13 (Netted amounts of cash payables and cash receivables of gross SFT assets)	(3,772)	(3,566)	(3,610)	(4,029)	(3,107)
14 Counterparty credit risk exposure for SFTs	2,029	1,692	2,929	2,214	1,942
15 Agent transaction exposures	-	-	-	-	-
16 <b>Total securities financing transaction exposures (sum of lines 12 to 15)</b>	<b>53,679</b>	<b>52,211</b>	<b>56,167</b>	<b>47,123</b>	<b>48,431</b>
<b>Other off-balance sheet exposures</b>					
17 Off-balance sheet exposure at gross notional amount	261,963	259,650	252,600	248,850	246,660
18 (Adjustments for conversion to credit equivalent amounts)	(188,168)	(186,271)	(180,571)	(183,024)	(181,294)
19 <b>Off-balance sheet items (sum of lines 17 and 18)</b>	<b>73,795</b>	<b>73,379</b>	<b>72,029</b>	<b>65,826</b>	<b>65,366</b>
<b>Capital and Total Exposures</b>					
20 <b>T1 capital</b>	<b>30,169</b>	<b>29,648</b>	<b>28,679</b>	<b>27,908</b>	<b>27,180</b>
21 <b>Total Exposures (sum of lines 5, 11, 16 and 19)</b>	<b>702,918</b>	<b>696,026</b>	<b>674,962</b>	<b>653,946</b>	<b>649,169</b>
<b>Leverage Ratio</b>					
22 <b>Basel III leverage ratio</b>	<b>4.3%</b>	<b>4.3%</b>	<b>4.2%</b>	<b>4.3%</b>	<b>4.2%</b>

(1) To enhance comparability, the information for Q4/18 and prior quarters has been re-arranged to align with the row numbers in OSFI's "Leverage Ratio Disclosure Requirements" published in November 2018. The information for Q4/18 and prior quarters has not changed, however certain subtotals have been restated to align with the current presentation.



## CR1: CREDIT QUALITY OF ASSETS

(\$ millions)	Q3/19				Q2/19			
	a	b	c	d	a	b	c	d
	Gross carrying values of				Gross carrying values of			
	Defaulted exposures <sup>(1)</sup>	Non-defaulted exposures	Allowances/impairments	Net value (a+b-c)	Defaulted exposures <sup>(1)</sup>	Non-defaulted exposures	Allowances/impairments	Net value (a+b-c)
1 Loans	1,797	395,414	1,771	395,440	2,043	392,653	1,751	392,945
2 Debt securities	423	90,836	24	91,235	416	92,470	24	92,862
2a Other investment <sup>(2)</sup>	-	9	-	9	-	11	-	11
3 Off-balance sheet exposures <sup>(3)</sup>	98	261,580	119	261,559	98	259,194	109	259,183
4 Total	<b>2,318</b>	<b>747,839</b>	<b>1,914</b>	<b>748,243</b>	<b>2,557</b>	<b>744,328</b>	<b>1,884</b>	<b>745,001</b>

(\$ millions)	Q1/19				Q4/18			
	a	b	c	d	a	b	c	d
	Gross carrying values of				Gross carrying values of			
	Defaulted exposures <sup>(1)</sup>	Non-defaulted exposures	Allowances/impairments	Net value (a+b-c)	Defaulted exposures <sup>(1)</sup>	Non-defaulted exposures	Allowances/impairments	Net value (a+b-c)
1 Loans	1,794	384,993	1,715	385,072	1,480	381,820	1,639	381,661
2 Debt securities	411	82,439	24	82,826	375	75,380	23	75,732
2a Other investment <sup>(2)</sup>	-	11	-	11	-	11	-	11
3 Off-balance sheet exposures <sup>(3)</sup>	238	251,937	130	252,045	29	248,678	102	248,605
4 Total	<b>2,443</b>	<b>719,380</b>	<b>1,869</b>	<b>719,954</b>	<b>1,884</b>	<b>705,889</b>	<b>1,764</b>	<b>706,009</b>

- (1) For our retail exposures, our accounting definitions for past due and impaired are the same as our regulatory definitions for past due and defaulted, respectively. For our business and government exposures, our accounting and regulatory definitions of past due are the same, but our accounting definition for impairment takes into consideration guarantees and security for an individual exposure, while our regulatory definition of default is based on the financial condition of the borrower without consideration of guarantees and security. Under IFRS, all past due accounts that are not impaired and all non-past due accounts are classified either in stage 1 or in stage 2, and all impaired exposures are classified in stage 3 for expected credit loss provisioning. This column includes defaulted exposures based on our regulatory definition. Past due loans are considered non-defaulted exposures.
- (2) Other investments include equity investments subject to the credit risk framework.
- (3) Includes \$121.0 billion (Q2/19: \$119.8 billion) of personal, home equity and credit card lines, which are unconditionally cancellable at our discretion.

## CR2: CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES <sup>(1)(2)</sup>

(\$ millions)	Q3/19	Q2/19	Q1/19	Q4/18
	a	b	c	d
1 Defaulted loans and debt securities at end of the previous reporting period	<b>2,557</b>	2,443	1,884	2,161
2 Loans and debt securities that have defaulted since the last reporting period	<b>741</b>	699	1,147	591
Amounts repaid <sup>(3)</sup>	<b>(680)</b>	(193)	(240)	(446)
3 Returned to non-defaulted status	<b>(10)</b>	(134)	(108)	(159)
4 Amounts written off	<b>(287)</b>	(287)	(278)	(272)
5 Other changes <sup>(4)</sup>	<b>(3)</b>	29	38	9
6 Defaulted loans and debt securities at end of the reporting period	<b>2,318</b>	2,557	2,443	1,884

- (1) For our retail exposures, our accounting definitions for past due and impaired are the same as our regulatory definitions for past due and defaulted, respectively. For our business and government exposures, our accounting and regulatory definitions of past due are the same, but our accounting definition for impairment takes into consideration guarantees and security for an individual exposure, while our regulatory definition of default is based on the financial condition of the borrower without consideration of guarantees and security. Under IFRS, all past due accounts that are not impaired and all non-past due accounts are classified either in stage 1 or in stage 2, and all impaired exposures are classified in stage 3 for expected credit loss provisioning. This column includes defaulted exposures based on our regulatory definition. Past due loans are considered non-defaulted exposures.
- (2) Includes off-balance sheet exposures.
- (3) Includes disposals of loans.
- (4) Includes changes due to foreign exchange movements.

## CR3: CRM TECHNIQUES - OVERVIEW <sup>(1)</sup>

(\$ millions)	Q3/19					Q2/19				
	a	b1	b	d	f	a	b1	b	d	f
	Exposure unsecured: carrying amount <sup>(2)</sup>	Exposure secured <sup>(3)</sup>	Exposure secured by collateral <sup>(4)</sup>	Exposures secured by financial guarantees	Exposures secured by credit derivatives <sup>(5)</sup>	Exposure unsecured: carrying amount <sup>(2)</sup>	Exposure secured <sup>(3)</sup>	Exposure secured by collateral <sup>(4)</sup>	Exposures secured by financial guarantees	Exposures secured by credit derivatives <sup>(5)</sup>
1 Loans	46,426	349,014	348,275	739	-	44,589	348,356	347,410	946	-
2 Debt securities	73,553	17,682	2,647	15,035	-	74,817	18,045	2,627	15,418	-
3 Total <sup>(3)</sup>	119,979	366,696	350,922	15,774	-	119,406	366,401	350,037	16,364	-
4 Of which defaulted <sup>(6)</sup>	792	861	861	-	-	957 <sup>(7)</sup>	958	956	2	-

  

(\$ millions)	Q1/19					Q4/18				
	a	b1	b	d	f	a	b1	b	d	f
	Exposure unsecured: carrying amount <sup>(2)</sup>	Exposure secured <sup>(3)</sup>	Exposure secured by collateral <sup>(4)</sup>	Exposures secured by financial guarantees	Exposures secured by credit derivatives <sup>(5)</sup>	Exposure unsecured: carrying amount <sup>(2)</sup>	Exposure secured <sup>(3)</sup>	Exposure secured by collateral <sup>(4)</sup>	Exposures secured by financial guarantees	Exposures secured by credit derivatives <sup>(5)</sup>
1 Loans	49,718	335,354	334,788	566	-	50,022	331,639	331,242	397	-
2 Debt securities	64,411	18,415	2,850	15,565	-	58,978	16,754	2,599	14,155	-
3 Total <sup>(3)</sup>	114,129	353,769	337,638	16,131	-	109,000	348,393	333,841	14,552	-
4 Of which defaulted <sup>(6)</sup>	666	1,010	1,008	2	-	727	1,189	1,187	2	-

(1) Excludes off-balance sheet exposures.

(2) Includes fully unsecured exposures and the unsecured portion of partially-secured exposures.

(3) Amounts reflect the entire carrying value of exposures which are secured by either collateral or financial guarantees.

(4) All residential mortgages are included in exposure secured by collateral.

(5) Excludes derivatives which do not qualify in reducing exposures considered for regulatory capital purposes.

(6) Amounts are net of allowance for credit losses.

(7) Restated.

## CR4: SA - CREDIT RISK EXPOSURE AND CRM EFFECTS

(\$ millions)

	Q3/19										
	a		b		c		d		e		f
	Exposures before CCF <sup>(1)</sup> and CRM		Exposures post-CCF and CRM		RWA and RWA density						
Asset classes	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density %					
1 Sovereigns and their central banks	13,126	-	13,126	-	2,478	19					
2 Non-central government public sector entities	-	-	-	-	-	-					
3 Multilateral development banks	-	-	-	-	-	-					
4 Banks	1,920	7	1,920	7	454	24					
5 Securities firms	-	-	-	-	-	-					
6 Corporates	30,786	6,725	30,786	6,725	37,311	99					
7 Regulatory retail portfolios	1,198	26	1,198	26	886	72					
8 Secured by residential property	3,926	2	3,926	2	2,516	64					
9 Secured by commercial real estate	-	-	-	-	-	-					
10 Equity <sup>(2)</sup>	425	4	425	4	450	105					
11 Past-due loans <sup>(3)</sup>	-	-	-	-	-	-					
12 Higher-risk categories	-	-	-	-	-	-					
13 Other assets <sup>(4)</sup>	14,279	-	14,279	-	10,132	71					
14 Total	65,660	6,764	65,660	6,764	54,227	75					

(\$ millions)

	Q2/19										
	a		b		c		d		e		f
	Exposures before CCF <sup>(1)</sup> and CRM		Exposures post-CCF and CRM		RWA and RWA density						
Asset classes	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density %					
1 Sovereigns and their central banks	12,944	-	12,944	-	2,515	19					
2 Non-central government public sector entities	-	-	-	-	-	-					
3 Multilateral development banks	-	-	-	-	-	-					
4 Banks	2,085	6	2,085	6	481	23					
5 Securities firms	-	-	-	-	-	-					
6 Corporates	30,007	6,682	30,007	6,682	36,495	99					
7 Regulatory retail portfolios	1,218	26	1,218	26	902	73					
8 Secured by residential property	3,876	1	3,876	1	2,520	65					
9 Secured by commercial real estate	-	-	-	-	-	-					
10 Equity <sup>(2)</sup>	420	-	420	-	446	106					
11 Past-due loans <sup>(3)</sup>	-	-	-	-	-	-					
12 Higher-risk categories	-	-	-	-	-	-					
13 Other assets <sup>(4)</sup>	14,769	-	14,769	-	10,425	71					
14 Total	65,319	6,715	65,319	6,715	53,784	75					

(1) Credit conversion factor (CCF).

(2) Comprises non-trading equities that are risk-weighted at 100% under the materiality clause. RWA include the 6% adjustment for the scaling factor.

(3) Past due loans relating to CIBC FirstCaribbean and CIBC Bank USA are included in rows 1-9 of this table.

(4) Comprises amounts relating to settlement risk and other assets that are subject to the credit risk framework but are not included in the standardized or IRB frameworks, including other balance sheet assets that are risk-weighted at 100%, significant investments in the capital of non-financial institutions that are risk-weighted at 1250%, settlement risk, and amounts below the thresholds for deduction that are risk-weighted at 250%.

## CR4: SA - CREDIT RISK EXPOSURE AND CRM EFFECTS (continued)

(\$ millions)

	Q1/19										
	a		b		c		d		e		f
	Exposures before CCF <sup>(1)</sup> and CRM		Exposures post-CCF and CRM		RWA and RWA density						
<b>Asset classes</b>	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density %					
1 Sovereigns and their central banks	13,745	-	13,745	-	2,432	18					
2 Non-central government public sector entities	-	-	-	-	-	-					
3 Multilateral development banks	-	-	-	-	-	-					
4 Banks	1,952	4	1,952	4	476	24					
5 Securities firms	-	-	-	-	-	-					
6 Corporates	27,508	6,285	27,508	6,285	33,559	99					
7 Regulatory retail portfolios	1,197	26	1,197	26	886	72					
8 Secured by residential property	3,682	2	3,682	2	2,413	65					
9 Secured by commercial real estate	-	-	-	-	-	-					
10 Equity <sup>(2)</sup>	411	-	411	-	436	106					
11 Past-due loans <sup>(3)</sup>	-	-	-	-	-	-					
12 Higher-risk categories	-	-	-	-	-	-					
13 Other assets <sup>(4)</sup>	8,152	-	8,152	-	9,679	119					
14 Total	56,647	6,317	56,647	6,317	49,881	79					

(\$ millions)

	Q4/18										
	a		b		c		d		e		f
	Exposures before CCF <sup>(1)</sup> and CRM		Exposures post-CCF and CRM		RWA and RWA density						
<b>Asset classes</b>	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density %					
1 Sovereigns and their central banks	12,047	-	12,047	-	2,319	19					
2 Non-central government public sector entities	-	-	-	-	-	-					
3 Multilateral development banks	-	-	-	-	-	-					
4 Banks	1,868	5	1,868	5	465	25					
5 Securities firms	-	-	-	-	-	-					
6 Corporates	26,876	5,712	26,876	5,712	32,409	99					
7 Regulatory retail portfolios	1,218	26	1,218	26	915	74					
8 Secured by residential property	3,647	2	3,647	2	2,751	75					
9 Secured by commercial real estate	-	-	-	-	-	-					
10 Equity <sup>(2)</sup>	411	-	411	-	436	106					
11 Past-due loans <sup>(3)</sup>	-	-	-	-	-	-					
12 Higher-risk categories	-	-	-	-	-	-					
13 Other assets <sup>(4)</sup>	8,707	-	8,707	-	10,095	116					
14 Total	54,774	5,745	54,774	5,745	49,390	82					

For footnotes, see page 18.

## CR5: SA - EXPOSURES BY ASSET CLASSES AND RISK-WEIGHTS

(\$ millions)

Asset classes	Q3/19									
	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 (post CCF and post-CRM)
1 Sovereigns and their central banks	7,514	-	4,151	-	104	-	877	480	-	13,126
2 Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-
3 Multilateral development banks	-	-	-	-	-	-	-	-	-	-
4 Banks	-	-	1,792	-	83	-	48	4	-	1,927
5 Securities firms	-	-	-	-	-	-	-	-	-	-
6 Corporates	250	-	35	-	28	-	37,016	182	-	37,511
7 Regulatory retail portfolios	47	-	16	-	5	1,119	29	8	-	1,224
8 Secured by residential property	-	-	15	1,115	-	2,713	79	6	-	3,928
9 Secured by commercial real estate	-	-	-	-	-	-	-	-	-	-
10 Equity <sup>(1)</sup>	-	-	-	-	-	-	429	-	-	429
11 Past-due loans	-	-	-	-	-	-	-	-	-	-
12 Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13 Other assets <sup>(2)</sup>	7,393	-	173	-	-	-	4,843	-	1,870	14,279
<b>14 Total</b>	<b>15,204</b>	<b>-</b>	<b>6,182</b>	<b>1,115</b>	<b>220</b>	<b>3,832</b>	<b>43,321</b>	<b>680</b>	<b>1,870</b>	<b>72,424</b>

(\$ millions)

Asset classes	Q2/19									
	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 (post CCF and post-CRM)
1 Sovereigns and their central banks	6,996	-	4,523	-	109	-	836	480	-	12,944
2 Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-
3 Multilateral development banks	-	-	-	-	-	-	-	-	-	-
4 Banks	-	-	1,963	-	85	-	37	6	-	2,091
5 Securities firms	-	-	-	-	-	-	-	-	-	-
6 Corporates	245	-	34	-	22	-	36,209	179	-	36,689
7 Regulatory retail portfolios	49	-	13	-	4	1,140	31	7	-	1,244
8 Secured by residential property	-	-	16	1,013	-	2,759	82	7	-	3,877
9 Secured by commercial real estate	-	-	-	-	-	-	-	-	-	-
10 Equity <sup>(1)</sup>	-	-	-	-	-	-	420	-	-	420
11 Past-due loans	-	-	-	-	-	-	-	-	-	-
12 Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13 Other assets <sup>(2)</sup>	7,649	-	-	-	-	-	5,174	-	1,946	14,769
<b>14 Total</b>	<b>14,939</b>	<b>-</b>	<b>6,549</b>	<b>1,013</b>	<b>220</b>	<b>3,899</b>	<b>42,789</b>	<b>679</b>	<b>1,946</b>	<b>72,034</b>

(1) Comprises non-trading equity exposures that are risk-weighted at 100% under the materiality clause.

(2) Comprises balance sheet assets that are subject to the credit risk framework but are not included in the standardized or IRB frameworks, including settlement risk and amounts below the thresholds for deduction which are risk-weighted at 250%.

## CR5: SA - EXPOSURES BY ASSET CLASSES AND RISK-WEIGHTS (continued)

(\$ millions)

Asset classes	Q1/19									
	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 (post CCF and post-CRM)
1 Sovereigns and their central banks	7,902	-	4,487	-	107	-	786	463	-	13,745
2 Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-
3 Multilateral development banks	-	-	-	-	-	-	-	-	-	-
4 Banks	-	-	1,800	-	83	-	70	3	-	1,956
5 Securities firms	-	-	-	-	-	-	-	-	-	-
6 Corporates	246	-	40	-	26	-	33,363	118	-	33,793
7 Regulatory retail portfolios	43	-	17	-	5	1,122	29	7	-	1,223
8 Secured by residential property	-	-	16	918	-	2,660	83	7	-	3,684
9 Secured by commercial real estate	-	-	-	-	-	-	-	-	-	-
10 Equity <sup>(1)</sup>	-	-	-	-	-	-	411	-	-	411
11 Past-due loans	-	-	-	-	-	-	-	-	-	-
12 Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13 Other assets <sup>(2)</sup>	1,640	-	-	-	-	-	4,653	-	1,859	8,152
<b>14 Total</b>	<b>9,831</b>	<b>-</b>	<b>6,360</b>	<b>918</b>	<b>221</b>	<b>3,782</b>	<b>39,395</b>	<b>598</b>	<b>1,859</b>	<b>62,964</b>

(\$ millions)

Asset classes	Q4/18									
	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 (post CCF and post-CRM)
1 Sovereigns and their central banks	6,454	-	4,314	-	107	-	711	461	-	12,047
2 Non-central government public sector entities	-	-	-	-	-	-	-	-	-	-
3 Multilateral development banks	-	-	-	-	-	-	-	-	-	-
4 Banks	-	-	1,702	-	101	-	61	9	-	1,873
5 Securities firms	-	-	-	-	-	-	-	-	-	-
6 Corporates	198	-	27	-	24	-	32,227	112	-	32,588
7 Regulatory retail portfolios	38	-	15	-	5	1,136	36	14	-	1,244
8 Secured by residential property	-	-	16	-	-	3,536	97	-	-	3,649
9 Secured by commercial real estate	-	-	-	-	-	-	-	-	-	-
10 Equity <sup>(1)</sup>	-	-	-	-	-	-	411	-	-	411
11 Past-due loans	-	-	-	-	-	-	-	-	-	-
12 Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13 Other assets <sup>(2)</sup>	1,835	-	-	-	-	-	4,973	-	1,899	8,707
<b>14 Total</b>	<b>8,525</b>	<b>-</b>	<b>6,074</b>	<b>-</b>	<b>237</b>	<b>4,672</b>	<b>38,516</b>	<b>596</b>	<b>1,899</b>	<b>60,519</b>

For footnotes, see page 20.

## CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE <sup>(1)</sup>

(\$ millions)

	Q3/19											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD %	Number of obligors <sup>(2)</sup>	Average LGD %	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Business and government portfolios</b>												
<b>Corporate</b>												
0.00 to <0.15	12,384	22,652	73	28,849	0.08	1,887	30	1.9	5,867	20	8	
0.15 to <0.25	21,197	27,901	65	39,300	0.19	4,130	42	2.5	16,868	43	31	
0.25 to <0.50	13,577	12,678	65	21,779	0.34	3,858	36	2.5	10,744	49	27	
0.50 to <0.75	24,351	15,609	50	32,124	0.64	2,116	33	2.4	18,814	59	68	
0.75 to <2.50	19,411	11,648	53	25,632	1.71	7,125	31	2.0	17,785	69	135	
2.50 to <10.00	2,993	1,325	51	3,671	6.83	24,993	30	2.2	4,038	110	77	
10.00 to <100.00	587	320	58	773	23.69	351	38	1.8	1,511	195	69	
100.00 (Default)	451	85	64	505	100.00	438	48	1.7	1,266	251	165	
	<b>94,951</b>	<b>92,218</b>	<b>63</b>	<b>152,633</b>	<b>1.15</b>	<b>44,898</b>	<b>35</b>	<b>2.3</b>	<b>76,893</b>	<b>50</b>	<b>580</b>	<b>292</b>
<b>Sovereign</b>												
0.00 to <0.15	66,962	11,951	67	74,925	0.02	1,178	7	3.0	1,575	2	3	
0.15 to <0.25	58	121	65	136	0.23	56	28	1.0	30	22	-	
0.25 to <0.50	139	78	81	202	0.33	49	41	1.4	86	43	-	
0.50 to <0.75	578	288	38	686	0.72	45	7	0.6	66	10	-	
0.75 to <2.50	41	26	64	57	1.72	33	13	1.4	16	28	-	
2.50 to <10.00	3	1	64	4	8.72	268	23	2.2	4	100	-	
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
	<b>67,781</b>	<b>12,465</b>	<b>66</b>	<b>76,010</b>	<b>0.03</b>	<b>1,629</b>	<b>8</b>	<b>3.0</b>	<b>1,777</b>	<b>2</b>	<b>3</b>	<b>-</b>
<b>Banks</b>												
0.00 to <0.15	12,074	60,093	99	71,627	0.06	380	10	0.3	2,313	3	5	
0.15 to <0.25	530	3,701	82	3,583	0.17	52	6	0.8	140	4	-	
0.25 to <0.50	51	268	80	266	0.33	14	10	0.7	30	11	-	
0.50 to <0.75	25	359	92	354	0.73	24	10	0.1	54	15	-	
0.75 to <2.50	31	300	100	331	1.60	13	6	0.1	52	16	-	
2.50 to <10.00	732	12	84	742	6.09	120	11	2.5	312	42	6	
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
	<b>13,443</b>	<b>64,733</b>	<b>98</b>	<b>76,903</b>	<b>0.13</b>	<b>603</b>	<b>10</b>	<b>0.3</b>	<b>2,901</b>	<b>4</b>	<b>11</b>	<b>1</b>

(1) Amounts are calculated after taking into consideration the effect of credit risk mitigation strategies.

(2) Where a guarantee from a third-party exists, the credit rating of both the obligor and the guarantor will be assessed. In situations where an obligor has multiple outstanding exposures, those exposures without a guarantee reflect the PD of the obligor whereas guaranteed exposures will reflect the PD of the third-party. In such situations, the obligor will appear twice in both PD bands.

(3) Denoted in years.

(4) CIBC does not use credit derivatives to reduce RWA.

(5) Expected loss amounts are calculated for regulatory capital purposes based on our historical experience through-the-cycle and do not incorporate forward-looking information. Provision amounts represent stage 1, 2, and 3 allowance for credit loss amounts calculated in accordance with IFRS 9, which incorporate forward-looking information. Expected losses and provisions are both inputs into the calculation to determine the shortfall of allowances versus expected losses (if any) to be deducted from regulatory capital.

(6) Certain prior period amounts have been restated.

n/a Not applicable.



## CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE (continued) <sup>(1)</sup>

(\$ millions)

	Q3/19											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD %	Number of obligors <sup>(2)</sup>	Average LGD %	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Retail portfolios</b>												
<b>Real estate secured personal lending (insured)</b>												
0.00 to <0.15	68,697	-	n/a	68,697	0.01	364,877	5	n/a	852	1	1	
0.15 to <0.25	-	-	-	-	-	-	-	-	-	-	-	-
0.25 to <0.50	-	-	-	-	-	-	-	-	-	-	-	-
0.50 to <0.75	-	-	-	-	-	-	-	-	-	-	-	-
0.75 to <2.50	-	-	-	-	-	-	-	-	-	-	-	-
2.50 to <10.00	-	-	-	-	-	-	-	-	-	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	-
	<b>68,697</b>	<b>-</b>	<b>n/a</b>	<b>68,697</b>	<b>0.01</b>	<b>364,877</b>	<b>5</b>	<b>n/a</b>	<b>852</b>	<b>1</b>	<b>1</b>	<b>12</b>
<b>Real estate secured personal lending (uninsured)</b>												
0.00 to <0.15	101,533	48,907	31	116,890	0.07	762,531	22	n/a	4,901	4	18	
0.15 to <0.25	8,228	-	-	8,228	0.19	26,796	24	n/a	821	10	4	
0.25 to <0.50	19,705	4,731	97	24,285	0.31	64,164	21	n/a	3,037	13	16	
0.50 to <0.75	11,711	2,053	33	12,389	0.57	66,879	22	n/a	2,474	20	16	
0.75 to <2.50	7,815	436	34	7,963	1.28	34,067	23	n/a	2,960	37	24	
2.50 to <10.00	3,722	24	38	3,732	5.95	14,602	21	n/a	2,870	77	45	
10.00 to <100.00	598	33	39	612	37.71	3,611	24	n/a	876	143	52	
100.00 (Default)	371	13	-	371	100.00	2,280	25	n/a	397	107	72	
	<b>153,683</b>	<b>56,197</b>	<b>37</b>	<b>174,470</b>	<b>0.67</b>	<b>974,930</b>	<b>22</b>	<b>n/a</b>	<b>18,336</b>	<b>11</b>	<b>247</b>	<b>128</b>
<b>Qualifying revolving retail</b>												
0.00 to <0.15	3,227	47,517	72	37,551	0.07	4,185,975	90	n/a	1,468	4	22	
0.15 to <0.25	695	4,606	81	4,409	0.19	968,560	84	n/a	400	9	7	
0.25 to <0.50	2,638	5,596	55	5,738	0.42	981,682	83	n/a	985	17	20	
0.50 to <0.75	1,211	3,964	59	3,538	0.55	973,831	85	n/a	760	21	16	
0.75 to <2.50	6,362	7,805	60	11,084	1.40	1,807,611	87	n/a	5,013	45	135	
2.50 to <10.00	4,464	1,678	63	5,527	4.65	864,048	85	n/a	5,578	101	218	
10.00 to <100.00	621	364	60	839	32.72	273,883	84	n/a	1,885	225	233	
100.00 (Default)	45	-	n/a	45	100.00	14,830	81	n/a	88	196	30	
	<b>19,263</b>	<b>71,530</b>	<b>69</b>	<b>68,731</b>	<b>1.18</b>	<b>10,070,420</b>	<b>88</b>	<b>n/a</b>	<b>16,177</b>	<b>24</b>	<b>681</b>	<b>823</b>
<b>Other retail</b>												
0.00 to <0.15	2,172	1,516	80	3,392	0.10	33,538	34	n/a	213	6	1	
0.15 to <0.25	1,656	96	69	1,722	0.22	85,243	68	n/a	543	32	3	
0.25 to <0.50	598	929	56	1,114	0.33	33,805	78	n/a	505	45	3	
0.50 to <0.75	1,158	1	100	1,159	0.54	40,614	74	n/a	682	59	5	
0.75 to <2.50	4,286	796	59	4,756	1.18	122,618	81	n/a	4,366	92	46	
2.50 to <10.00	2,574	142	68	2,670	4.24	155,728	61	n/a	2,527	95	77	
10.00 to <100.00	600	338	58	795	52.14	283,824	29	n/a	553	70	79	
100.00 (Default)	66	-	n/a	66	100.00	12,256	79	n/a	14	21	61	
	<b>13,110</b>	<b>3,818</b>	<b>67</b>	<b>15,674</b>	<b>4.26</b>	<b>767,626</b>	<b>63</b>	<b>n/a</b>	<b>9,403</b>	<b>60</b>	<b>275</b>	<b>168</b>
<b>Total (all portfolios)</b>	<b>430,928</b>	<b>300,961</b>	<b>55</b>	<b>633,118</b>	<b>0.81</b>	<b>12,224,983</b>	<b>34</b>	<b>n/a</b>	<b>126,339</b>	<b>20</b>	<b>1,798</b>	<b>1,424</b>

(1) Amounts are calculated after taking into consideration the effect of credit risk mitigation strategies.

(2) The number of obligors for retail products reflects account level information rather than individual borrowers. In addition, certain products within real estate secured personal lending include both insured and uninsured components, such as mortgages and home-equity lines of credit secured by the same property. In such situations, the obligor will appear twice in both the insured and uninsured categories within the applicable PD band.

(3) Denoted in years.

(4) CIBC does not use credit derivatives to reduce RWA.

(5) Expected loss amounts are calculated for regulatory capital purposes based on our historical experience through-the-cycle and do not incorporate forward-looking information. Provision amounts represent stage 1, 2, and 3 allowance for credit loss amounts calculated in accordance with IFRS 9, which incorporate forward-looking information. Expected losses and provisions are both inputs into the calculation to determine the shortfall of allowances versus expected losses (if any) to be deducted from regulatory capital.

(6) Certain prior period amounts have been restated.

n/a Not applicable.



## CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE (continued) <sup>(1)</sup>

(\$ millions)

	Q2/19											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD %	Number of obligors <sup>(2)</sup>	Average LGD %	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Business and government portfolios</b>												
<b>Corporate</b>												
0.00 to <0.15	11,300	21,660	72	26,843	0.08	1,874	30	1.9	5,391	20	8	
0.15 to <0.25	21,828	28,052	65	40,125	0.19	4,063	42	2.4	16,793	42	32	
0.25 to <0.50	13,622	13,667	64	22,431	0.34	3,883	37	2.5	11,309	50	28	
0.50 to <0.75	24,027	14,689	50	31,393	0.64	2,091	34	2.4	18,374	59	67	
0.75 to <2.50	18,773	11,192	53	24,684	1.71	7,091	31	2.1	17,028	69	130	
2.50 to <10.00	2,851	1,342	54	3,569	6.77	26,498	32	2.2	4,145	116	78	
10.00 to <100.00	531	318	57	713	24.40	387	36	2.0	1,320	185	63	
100.00 (Default)	722	49	65	754	100.00	463	28	1.9	1,113	148	142	
	93,654	90,969	63	150,512	1.31	46,350	35	2.3	75,473	50	548	257
<b>Sovereign</b>												
0.00 to <0.15	65,621	11,059	63	72,621	0.02	1,149	8	3.2	1,527	2	1	
0.15 to <0.25	60	135	66	150	0.23	56	29	1.1	33	22	-	
0.25 to <0.50	197	56	77	241	0.33	58	36	1.3	89	37	1	
0.50 to <0.75	464	142	43	526	0.73	39	7	1.0	54	10	-	
0.75 to <2.50	38	20	63	51	1.75	30	15	1.6	17	33	1	
2.50 to <10.00	7	2	72	8	7.59	301	21	1.5	7	88	-	
10.00 to <100.00	-	-	1	-	23.64	2	55	2.5	-	n/a	-	
100.00 (Default)	-	-	1	-	100.00	2	55	2.5	-	n/a	-	
	66,387	11,414	63	73,597	0.03	1,637	8	3.2	1,727	2	3	-
<b>Banks</b>												
0.00 to <0.15	10,229	64,416	99	74,154	0.06	354	10	0.3	2,312	3	5	
0.15 to <0.25	831	3,211	89	3,679	0.17	59	11	0.4	266	7	1	
0.25 to <0.50	11	1,138	69	795	0.33	19	7	1.7	63	8	-	
0.50 to <0.75	57	191	87	222	0.71	25	15	0.2	44	20	-	
0.75 to <2.50	31	262	100	293	2.26	18	7	0.2	50	17	-	
2.50 to <10.00	1,212	30	90	1,238	6.08	219	12	2.5	563	45	9	
10.00 to <100.00	-	-	-	-	17.06	1	40	0.1	-	n/a	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
	12,371	69,248	98	80,381	0.17	695	10	0.3	3,298	4	15	1

For footnotes, see page 22.

**CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE (continued) <sup>(1)</sup>**

(\$ millions)

	Q2/19											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD %	Number of obligors <sup>(2)</sup>	Average LGD %	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Retail portfolios</b>												
<b>Real estate secured personal lending (insured)</b>												
0.00 to <0.15	71,739	-	n/a	71,739	0.01	380,587	5	n/a	883	1	1	
0.15 to <0.25	-	-	-	-	-	-	-	-	-	-	-	-
0.25 to <0.50	-	-	-	-	-	-	-	-	-	-	-	-
0.50 to <0.75	-	-	-	-	-	-	-	-	-	-	-	-
0.75 to <2.50	-	-	-	-	-	-	-	-	-	-	-	-
2.50 to <10.00	-	-	-	-	-	-	-	-	-	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	-
	71,739	-	n/a	71,739	0.01	380,587	5	n/a	883	1	1	11
<b>Real estate secured personal lending (uninsured)</b>												
0.00 to <0.15	99,407	48,578	31	114,660	0.07	755,251	22	n/a	4,852	4	17	
0.15 to <0.25	8,198	-	-	8,198	0.19	27,002	24	n/a	832	10	4	
0.25 to <0.50	19,441	4,131	96	23,421	0.31	62,257	21	n/a	2,981	13	16	
0.50 to <0.75	11,488	1,971	33	12,143	0.57	64,986	22	n/a	2,459	20	15	
0.75 to <2.50	7,781	435	34	7,928	1.28	34,378	23	n/a	2,990	38	25	
2.50 to <10.00	3,675	22	41	3,684	5.88	14,558	21	n/a	2,836	77	44	
10.00 to <100.00	544	36	39	557	36.96	3,583	25	n/a	832	149	48	
100.00 (Default)	346	12	-	346	100.00	2,204	26	n/a	393	114	67	
	150,880	55,185	36	170,937	0.65	964,219	22	n/a	18,175	11	236	116
<b>Qualifying revolving retail</b>												
0.00 to <0.15	3,259	46,774	77	39,419	0.06	4,017,902	95	n/a	1,410	4	21	
0.15 to <0.25	602	4,551	83	4,401	0.21	1,236,131	87	n/a	455	10	8	
0.25 to <0.50	2,456	6,715	67	6,947	0.34	1,064,662	90	n/a	1,092	16	21	
0.50 to <0.75	2,590	3,706	59	4,775	0.66	573,818	89	n/a	1,258	26	28	
0.75 to <2.50	5,386	6,843	70	10,170	1.44	1,926,239	90	n/a	4,885	48	133	
2.50 to <10.00	4,571	2,113	70	6,047	4.36	1,001,633	88	n/a	6,060	100	233	
10.00 to <100.00	862	417	60	1,112	29.38	268,157	89	n/a	2,516	226	290	
100.00 (Default)	45	-	-	45	100.00	14,827	86	n/a	74	164	37	
	19,771	71,119	75	72,916	1.19	10,103,369	92	n/a	17,750	24	771	819
<b>Other retail</b>												
0.00 to <0.15	3,496	1,533	77	4,677	0.11	87,696	44	n/a	522	11	2	
0.15 to <0.25	65	14	7	66	0.23	17,868	84	n/a	25	38	-	
0.25 to <0.50	914	877	57	1,413	0.29	46,197	80	n/a	616	44	3	
0.50 to <0.75	816	137	55	892	0.60	28,869	74	n/a	558	63	4	
0.75 to <2.50	4,173	694	58	4,576	1.17	122,355	81	n/a	4,145	91	43	
2.50 to <10.00	2,421	155	75	2,537	4.17	148,201	62	n/a	2,449	97	74	
10.00 to <100.00	574	342	60	779	48.84	280,679	34	n/a	620	80	96	
100.00 (Default)	63	-	-	63	100.00	10,119	78	n/a	10	16	59	
	12,522	3,752	66	15,003	4.12	741,984	63	n/a	8,945	60	281	164
<b>Total (all portfolios)</b>	<b>427,324</b>	<b>301,687</b>	<b>58</b>	<b>635,085</b>	<b>0.79</b>	<b>12,238,841</b>	<b>36</b>	<b>n/a</b>	<b>126,251</b>	<b>20</b>	<b>1,855</b>	<b>1,368</b>

For footnotes, see page 23.



## CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE (continued) <sup>(1)</sup>

(\$ millions)

	Q1/19											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD % <sup>(6)</sup>	Number of obligors <sup>(2)</sup>	Average LGD %	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Business and government portfolios</b>												
<b>Corporate</b>												
0.00 to <0.15	10,807	21,562	72	26,405	0.08	1,885	29	2.0	5,335	20	7	
0.15 to <0.25	20,264	25,996	67	37,599	0.19	4,054	42	2.5	15,999	43	30	
0.25 to <0.50	12,158	12,803	66	20,561	0.34	3,849	38	2.5	10,595	52	26	
0.50 to <0.75	24,067	14,835	50	31,517	0.64	2,079	33	2.4	18,243	58	65	
0.75 to <2.50	18,308	10,727	53	23,963	1.70	7,114	31	2.2	16,775	70	126	
2.50 to <10.00	2,594	1,454	51	3,341	6.62	26,612	31	1.9	3,791	113	70	
10.00 to <100.00	533	271	61	700	24.76	384	35	2.0	1,269	181	61	
100.00 (Default)	511	238	88	721	100.00	440	38	2.0	1,683	233	160	
	89,242	87,886	65	144,807	1.30	46,417	35	2.3	73,690	51	545	270
<b>Sovereign</b>												
0.00 to <0.15	51,944	10,495	63	58,530	0.02	1,165	8	3.0	1,394	2	1	
0.15 to <0.25	54	380	76	342	0.23	58	18	1.9	54	16	-	
0.25 to <0.50	189	63	77	238	0.33	56	35	1.3	86	36	-	
0.50 to <0.75	431	176	30	485	0.54	35	7	0.3	40	8	-	
0.75 to <2.50	41	9	69	47	1.80	32	18	1.8	18	38	-	
2.50 to <10.00	104	2	71	106	6.25	295	10	2.2	42	40	1	
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
	52,763	11,125	66	59,748	0.04	1,641	8	2.8	1,634	3	2	-
<b>Banks</b>												
0.00 to <0.15	13,167	64,108	99	76,750	0.06	390	9	0.3	2,341	3	5	
0.15 to <0.25	1,413	3,071	89	4,162	0.17	79	7	0.7	200	5	-	
0.25 to <0.50	75	642	65	494	0.33	26	6	1.0	30	6	-	
0.50 to <0.75	34	169	84	177	0.73	33	12	0.3	31	18	-	
0.75 to <2.50	40	245	100	284	2.30	20	6	0.2	47	17	-	
2.50 to <10.00	631	28	93	657	6.08	211	12	2.4	307	47	5	
10.00 to <100.00	-	-	-	-	17.06	1	40	0.1	-	n/a	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
	15,360	68,263	98	82,524	0.13	760	9	-	2,956	4	10	1

For footnotes, see page 22.

## CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE (continued) <sup>(1)</sup>

(\$ millions)

	Q1/19											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD % <sup>(6)</sup>	Number of obligors <sup>(2)(6)</sup>	Average LGD % <sup>(6)</sup>	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Retail portfolios</b>												
<b>Real estate secured personal lending (insured)</b>												
0.00 to <0.15	74,270	-	n/a	74,270	0.01	392,979	5	n/a	912	1	1	
0.15 to <0.25	-	-	-	-	-	-	-	-	-	-	-	-
0.25 to <0.50	-	-	-	-	-	-	-	-	-	-	-	-
0.50 to <0.75	-	-	-	-	-	-	-	-	-	-	-	-
0.75 to <2.50	-	-	-	-	-	-	-	-	-	-	-	-
2.50 to <10.00	-	-	-	-	-	-	-	-	-	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	-
	74,270	-	n/a	74,270	0.01	392,979	5	n/a	912	1	1	12
<b>Real estate secured personal lending (uninsured)</b>												
0.00 to <0.15	97,174	47,830	31	112,199	0.07	743,799	22	n/a	4,788	4	18	
0.15 to <0.25	7,884	-	-	7,884	0.19	26,370	25	n/a	793	10	4	
0.25 to <0.50	19,466	3,431	96	22,744	0.32	71,113	21	n/a	2,906	13	15	
0.50 to <0.75	12,669	2,166	33	13,382	0.57	70,330	22	n/a	2,676	20	17	
0.75 to <2.50	7,635	444	34	7,786	1.28	33,676	24	n/a	2,924	38	24	
2.50 to <10.00	3,389	23	41	3,398	5.83	13,612	21	n/a	2,599	76	41	
10.00 to <100.00	557	38	36	571	37.12	3,579	25	n/a	821	144	48	
100.00 (Default)	335	-	-	335	100.00	2,196	26	n/a	365	109	64	
	149,109	53,932	36	168,299	0.65	964,675	22	n/a	17,872	11	231	115
<b>Qualifying revolving retail</b>												
0.00 to <0.15	2,968	45,584	78	38,430	0.06	3,913,914	95	n/a	1,381	4	20	
0.15 to <0.25	565	4,609	84	4,431	0.21	1,234,255	87	n/a	457	10	8	
0.25 to <0.50	2,370	6,848	68	6,995	0.34	1,091,144	90	n/a	1,094	16	21	
0.50 to <0.75	2,536	3,774	59	4,771	0.66	578,727	89	n/a	1,253	26	28	
0.75 to <2.50	5,239	7,136	70	10,247	1.43	1,995,515	90	n/a	4,880	48	133	
2.50 to <10.00	4,488	2,164	68	5,966	4.35	986,086	88	n/a	6,027	101	229	
10.00 to <100.00	803	347	70	1,047	30.28	269,769	89	n/a	2,346	224	281	
100.00 (Default)	45	-	-	45	100.00	15,487	85	n/a	73	162	37	
	19,014	70,462	75	71,932	1.19	10,084,897	92	n/a	17,511	24	757	810
<b>Other retail</b>												
0.00 to <0.15	3,269	1,746	76	4,589	0.11	80,362	45	n/a	489	11	2	
0.15 to <0.25	66	11	9	67	0.22	17,465	84	n/a	26	39	-	
0.25 to <0.50	772	550	58	1,089	0.30	43,900	73	n/a	448	41	2	
0.50 to <0.75	942	274	53	1,087	0.61	29,197	72	n/a	666	61	5	
0.75 to <2.50	4,174	783	59	4,636	1.20	127,042	76	n/a	3,864	83	42	
2.50 to <10.00	2,307	163	67	2,417	4.32	148,199	61	n/a	2,311	96	73	
10.00 to <100.00	537	301	61	722	51.26	269,442	26	n/a	518	72	86	
100.00 (Default)	61	-	-	61	100.00	11,947	74	n/a	10	16	57	
	12,128	3,828	66	14,668	4.14	727,554	61	n/a	8,332	57	267	143
<b>Total (all portfolios)</b>	411,886	295,496	69	616,248	0.74	12,218,923	29	n/a	122,907	20	1,813	1,351

For footnotes, see page 23.

## CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE (continued) <sup>(1)</sup>

(\$ millions)

	Q4/18											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD %	Number of obligors <sup>(2)</sup>	Average LGD %	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Business and government portfolios</b>												
<b>Corporate</b>												
0.00 to <0.15	9,855	22,905	75	27,119	0.08	1,873	28	1.9	5,403	20	7	
0.15 to <0.25	19,396	25,476	69	36,995	0.19	4,072	42	2.5	15,516	42	29	
0.25 to <0.50	12,082	12,882	68	20,812	0.34	3,816	38	2.4	10,464	50	26	
0.50 to <0.75	23,680	15,416	50	31,400	0.64	2,067	33	2.4	18,000	57	65	
0.75 to <2.50	17,185	10,558	53	22,783	1.72	7,027	31	2.1	15,832	69	120	
2.50 to <10.00	2,315	1,152	53	2,920	6.59	27,190	33	2.2	3,433	118	62	
10.00 to <100.00	525	246	58	667	26.02	402	42	1.8	1,415	212	68	
100.00 (Default)	240	28	52	255	100.00	395	41	1.6	380	149	87	
	85,278	88,663	65	142,951	0.96	46,842	35	2.3	70,443	49	464	179
<b>Sovereign</b>												
0.00 to <0.15	51,007	10,721	67	58,148	0.02	1,185	8	2.8	1,352	2	1	
0.15 to <0.25	58	95	70	125	0.23	62	36	1.3	38	30	-	
0.25 to <0.50	155	73	78	211	0.33	59	35	1.1	76	36	-	
0.50 to <0.75	431	182	32	488	0.55	36	7	0.4	44	9	-	
0.75 to <2.50	34	8	69	40	1.59	33	21	0.9	17	43	-	
2.50 to <10.00	19	2	71	20	6.57	308	13	2.3	10	50	-	
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
	51,704	11,081	66	59,032	0.03	1,683	8	2.8	1,537	3	1	-
<b>Banks</b>												
0.00 to <0.15	11,934	63,205	99	74,717	0.06	383	9	0.3	2,202	3	4	
0.15 to <0.25	1,104	3,030	90	3,829	0.17	67	8	0.8	212	6	1	
0.25 to <0.50	119	599	71	545	0.33	25	5	1.0	29	5	-	
0.50 to <0.75	49	167	84	189	0.73	28	13	0.3	33	17	-	
0.75 to <2.50	63	195	98	254	2.41	24	12	0.6	89	35	1	
2.50 to <10.00	427	42	70	457	6.08	207	19	2.1	318	70	5	
10.00 to <100.00	-	1	-	-	17.06	2	25	0.2	-	n/a	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
	13,696	67,239	99	79,991	0.27	736	9	-	2,883	4	11	1

For footnotes, see page 22.

## CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE (continued) <sup>(1)</sup>

(\$ millions)

	Q4/18											
	a	b	c	d	e	f	g	h	i	j	k	l
PD scale	Original on-balance sheet gross exposure	Off-balance sheet exposures pre CCF	Average CCF %	EAD post CRM and post-CCF	Average PD %	Number of obligors <sup>(2)(6)</sup>	Average LGD %	Average maturity <sup>(3)</sup>	RWA <sup>(4)</sup>	RWA density %	Expected losses <sup>(5)</sup>	Provisions <sup>(5)</sup>
<b>Retail portfolios</b>												
<b>Real estate secured personal lending (insured)</b>												
0.00 to <0.15	76,945	-	n/a	76,945	0.01	405,472	5	n/a	939	1	1	
0.15 to <0.25	-	-	-	-	-	-	-	-	-	-	-	-
0.25 to <0.50	-	-	-	-	-	-	-	-	-	-	-	-
0.50 to <0.75	-	-	-	-	-	-	-	-	-	-	-	-
0.75 to <2.50	-	-	-	-	-	-	-	-	-	-	-	-
2.50 to <10.00	-	-	-	-	-	-	-	-	-	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	-
	76,945	-	n/a	76,945	0.01	405,472	5	n/a	939	1	1	14
<b>Real estate secured personal lending (uninsured)</b>												
0.00 to <0.15	96,456	47,146	31	111,246	0.07	585,979	22	n/a	4,432	4	16	
0.15 to <0.25	7,464	-	-	7,464	0.19	59,389	25	n/a	750	10	3	
0.25 to <0.50	21,259	5,185	83	25,556	0.32	148,513	23	n/a	3,519	14	19	
0.50 to <0.75	10,661	1,008	32	10,979	0.58	68,545	19	n/a	1,917	17	12	
0.75 to <2.50	7,922	428	34	8,069	1.28	58,241	24	n/a	2,996	37	25	
2.50 to <10.00	2,998	22	40	3,007	6.06	27,586	21	n/a	2,350	78	37	
10.00 to <100.00	510	28	38	521	36.37	5,449	24	n/a	734	141	42	
100.00 (Default)	286	-	-	286	100.00	3,876	27	n/a	338	118	56	
	147,556	53,817	36	167,128	0.60	957,578	22	n/a	17,036	10	210	98
<b>Qualifying revolving retail</b>												
0.00 to <0.15	3,704	44,674	78	38,486	0.05	3,875,829	95	n/a	1,357	4	20	
0.15 to <0.25	1,193	5,736	78	5,661	0.21	1,317,215	89	n/a	580	10	10	
0.25 to <0.50	2,293	5,567	71	6,247	0.36	987,283	89	n/a	1,002	16	20	
0.50 to <0.75	2,852	3,707	60	5,068	0.66	571,347	90	n/a	1,328	26	30	
0.75 to <2.50	6,485	6,948	71	11,430	1.45	1,967,168	91	n/a	5,507	48	151	
2.50 to <10.00	4,903	2,101	71	6,401	4.35	1,011,905	89	n/a	6,499	102	247	
10.00 to <100.00	994	528	70	1,245	29.52	281,319	89	n/a	2,806	225	328	
100.00 (Default)	44	-	-	44	100.00	15,547	85	n/a	76	170	35	
	22,468	69,261	75	74,582	1.27	10,027,613	92	n/a	19,155	26	841	806
<b>Other retail</b>												
0.00 to <0.15	3,324	1,767	75	4,646	0.11	74,650	63	n/a	471	10	2	
0.15 to <0.25	60	13	17	63	0.22	17,097	84	n/a	24	38	-	
0.25 to <0.50	755	589	58	1,097	0.30	42,475	75	n/a	450	41	2	
0.50 to <0.75	950	273	53	1,096	0.61	30,318	70	n/a	673	61	5	
0.75 to <2.50	4,110	774	59	4,569	1.21	124,471	71	n/a	3,810	83	41	
2.50 to <10.00	2,324	158	67	2,431	4.29	149,086	79	n/a	2,275	94	72	
10.00 to <100.00	567	291	61	743	52.40	289,843	76	n/a	526	71	88	
100.00 (Default)	67	1	58	68	100.00	11,993	78	n/a	12	17	63	
	12,157	3,866	66	14,713	4.29	739,933	70	n/a	8,241	56	273	140
<b>Total (all portfolios)</b>	409,804	293,927	70	615,342	0.41	12,179,857	17	n/a	120,234	20	1,801	1,238

For footnotes, see page 23.

## CR10: IRB (SPECIALIZED LENDING AND EQUITIES UNDER THE SIMPLE RISK-WEIGHT METHOD) <sup>(1)</sup>

(\$ millions)

		Q3/19										
		Specialized lending										
		Other than high volatility commercial real estate <sup>(2)</sup>										
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	Risk-weight %	Exposure amount					Total	RWA	Expected losses
					Project finance	Object finance	Commodities finance	Income-producing real estate				
Strong	Less than 2.5 years	-	-	50	-	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	310	-	70	-	-	-	310	310	230	1	
Good	Less than 2.5 years	-	-	70	-	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	86	-	90	-	-	-	86	86	82	1	
Satisfactory		29	-	115	-	-	-	29	29	35	1	
Weak		-	-	250	-	-	-	-	-	-	-	
Default		-	-	-	-	-	-	-	-	-	-	
<b>Total</b>		<b>425</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>425</b>	<b>425</b>	<b>347</b>	<b>3</b>	

(\$ millions)

		Q2/19										
		Specialized lending										
		Other than high volatility commercial real estate <sup>(2)</sup>										
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	Risk-weight %	Exposure amount					Total	RWA	Expected losses
					Project finance	Object finance	Commodities finance	Income-producing real estate				
Strong	Less than 2.5 years	-	-	50	-	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	330	-	70	-	-	-	330	330	245	1	
Good	Less than 2.5 years	-	-	70	-	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	114	-	90	-	-	-	114	114	109	1	
Satisfactory		29	-	115	-	-	-	29	29	35	1	
Weak		-	-	250	-	-	-	-	-	-	-	
Default		-	-	-	-	-	-	-	-	-	-	
<b>Total</b>		<b>473</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>473</b>	<b>473</b>	<b>389</b>	<b>3</b>	

(\$ millions)

		Q1/19										
		Specialized lending										
		Other than high volatility commercial real estate <sup>(2)</sup>										
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	Risk-weight %	Exposure amount					Total	RWA	Expected losses
					Project finance	Object finance	Commodities finance	Income-producing real estate				
Strong	Less than 2.5 years	-	-	50	-	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	404	3	70	-	-	-	407	407	301	2	
Good	Less than 2.5 years	-	-	70	-	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	94	-	90	-	-	-	94	94	90	1	
Satisfactory		32	-	115	-	-	-	32	32	39	1	
Weak		-	-	250	-	-	-	-	-	1	-	
Default		1	-	-	-	-	-	1	1	-	1	
<b>Total</b>		<b>531</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>534</b>	<b>534</b>	<b>431</b>	<b>5</b>	

(1) CIBC has no exposures to high-volatility commercial real estate or to equities under the simple risk-weight approach.

(2) Comprises certain commercial loans that are risk-weighted under the supervisory slotting approach.





## CR10: IRB (SPECIALIZED LENDING AND EQUITIES UNDER THE SIMPLE RISK-WEIGHT METHOD) (continued) <sup>(1)</sup>

(\$ millions)

Q4/18

### Specialized lending

Other than high volatility commercial real estate <sup>(2)</sup>

Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	RW %	Exposure amount				Total	RWA	Expected losses
					Project finance	Object finance	Commodities finance	Income-producing real estate			
Strong	Less than 2.5 years	-	-	50	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	495	4	70	-	-	-	499	499	371	2
Good	Less than 2.5 years	-	-	70	-	-	-	-	-	-	-
	Equal to or more than 2.5 years	99	-	90	-	-	-	99	99	94	1
Satisfactory		25	-	115	-	-	-	25	25	30	1
Weak		1	-	250	-	-	-	1	1	2	-
Default		1	-	-	-	-	-	1	1	-	-
<b>Total</b>		<b>621</b>	<b>4</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>625</b>	<b>625</b>	<b>497</b>	<b>4</b>

For footnotes, see page 30.

## CCR1: ANALYSIS OF COUNTERPARTY CREDIT RISK EXPOSURE BY APPROACH <sup>(1)</sup>

(\$ millions)

	Q3/19					
	a	b	c	d	e	f
	Replacement cost	Potential future exposure	EEPE <sup>(2)</sup>	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
1 SA-CCR (for derivatives)	5,578	14,025	-	1.4	27,356	8,233
2 IMM (for derivatives and SFTs)			-	-	-	-
3 Simple Approach for credit risk mitigation (for SFTs)					-	-
4 Comprehensive Approach for credit risk mitigation (for SFTs)					12,111	2,260
5 Value at Risk (VaR) for SFTs					-	-
6 Total						10,493

(\$ millions)

	Q2/19					
	a	b	c	d	e	f
	Replacement cost	Potential future exposure	EEPE <sup>(2)</sup>	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
1 SA-CCR (for derivatives)	4,749	13,997	-	1.4	26,572	7,861
2 IMM (for derivatives and SFTs)			-	-	-	-
3 Simple Approach for credit risk mitigation (for SFTs)					-	-
4 Comprehensive Approach for credit risk mitigation (for SFTs)					11,901	2,037
5 VaR for SFTs					-	-
6 Total						9,898

(\$ millions)

	Q1/19					
	a	b	c	d	e	f
	Replacement cost	Potential future exposure	EEPE <sup>(2)</sup>	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
1 SA-CCR (for derivatives)	4,220	12,924	-	1.4	23,930	6,893
2 IMM (for derivatives and SFTs)			-	-	-	-
3 Simple Approach for credit risk mitigation (for SFTs)					-	-
4 Comprehensive Approach for credit risk mitigation (for SFTs)					13,018	1,832
5 VaR for SFTs					-	-
6 Total						8,725

(\$ millions)

	Q4/18					
	a	b	c	d	e	f
	Replacement cost	Potential future exposure	EEPE <sup>(2)</sup>	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
1 Current Exposure Method and Standardized Approach	8,824	13,180	-	-	21,926	4,806
2 IMM (for derivatives and SFTs)			-	-	-	-
3 Simple Approach for credit risk mitigation (for SFTs)					-	-
4 Comprehensive Approach for credit risk mitigation (for SFTs)					12,392	1,940
5 VaR for SFTs					-	-
6 Total						6,746

(1) Excludes RWA relating to CVA charges and exposures and RWA arising from transactions cleared through QCCPs.

(2) Effective Expected Positive Exposure.



## CCR2: CVA CAPITAL CHARGE

(\$ millions)	Q3/19		Q2/19		Q1/19	
	a	b	a	b	a	b
	EAD post-CRM	RWA <sup>(1)</sup>	EAD post-CRM	RWA <sup>(1)</sup>	EAD post-CRM	RWA <sup>(1)</sup>
<b>Total portfolios subject to the Advanced CVA capital charge</b>						
1 (i) VaR component (including the 3×multiplier)		-		-		-
2 (ii) Stressed VaR component (including the 3×multiplier)		-		-		-
3 All portfolios subject to the Standardized CVA capital charge	17,619	6,151	17,144	6,705	15,439	5,790
4 Total subject to the CVA capital charge	17,619	6,151	17,144	6,705	15,439	5,790

(\$ millions)	Q4/18	
	a	b
	EAD post-CRM	RWA <sup>(1)</sup>
<b>Total portfolios subject to the Advanced CVA capital charge</b>		
1 (i) VaR component (including the 3×multiplier)		-
2 (ii) Stressed VaR component (including the 3×multiplier)		-
3 All portfolios subject to the Standardized CVA capital charge	16,026	4,236
4 Total subject to the CVA capital charge	16,026	4,236

(1) Prior to Q1/19, RWA included application of a scaling factor of 80%. Beginning in Q1/19 RWA are no longer scaled as the phase-in is no longer applicable.

## CCR3: SA - COUNTERPARTY CREDIT RISK EXPOSURES BY REGULATORY PORTFOLIO AND RISK-WEIGHTS <sup>(1)(2)</sup>

(\$ millions)

	Q3/19								
	a	b	c	d	e	f	g	h	i
	Risk weight								
	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
<b>Regulatory portfolio</b>									
Sovereigns	-	-	-	-	-	-	-	-	-
Non-central government public sector entities	-	-	-	-	-	-	-	-	-
Multilateral development banks	-	-	-	-	-	-	-	-	-
Banks	-	-	-	-	-	-	-	-	-
Securities firms	-	-	-	-	-	-	-	-	-
Corporates	10	-	17	1	-	566	11	-	605
Regulatory retail portfolios	-	-	-	-	-	-	-	-	-
Other assets	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>10</b>	<b>-</b>	<b>17</b>	<b>1</b>	<b>-</b>	<b>566</b>	<b>11</b>	<b>-</b>	<b>605</b>

(\$ millions)

	Q2/19								
	a	b	c	d	e	f	g	h	i
	Risk weight								
	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
<b>Regulatory portfolio</b>									
Sovereigns	-	-	-	-	-	-	-	-	-
Non-central government public sector entities	-	-	-	-	-	-	-	-	-
Multilateral development banks	-	-	-	-	-	-	-	-	-
Banks	-	-	-	-	-	-	-	-	-
Securities firms	-	-	-	-	-	-	-	-	-
Corporates	1	-	17	1	-	429	11	-	459
Regulatory retail portfolios	-	-	-	-	-	-	-	-	-
Other assets	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1</b>	<b>-</b>	<b>17</b>	<b>1</b>	<b>-</b>	<b>429</b>	<b>11</b>	<b>-</b>	<b>459</b>

(\$ millions)

	Q1/19								
	a	b	c	d	e	f	g	h	i
	Risk weight								
	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
<b>Regulatory portfolio</b>									
Sovereigns	-	-	-	-	-	-	-	-	-
Non-central government public sector entities	-	-	-	-	-	-	-	-	-
Multilateral development banks	-	-	-	-	-	-	-	-	-
Banks	-	-	-	-	-	-	-	-	-
Securities firms	-	-	-	-	-	-	-	-	-
Corporates	1	-	13	2	-	366	10	-	392
Regulatory retail portfolios	-	-	-	-	-	-	-	-	-
Other assets	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1</b>	<b>-</b>	<b>13</b>	<b>2</b>	<b>-</b>	<b>366</b>	<b>10</b>	<b>-</b>	<b>392</b>

(1) Prior to Q1/19, counterparty credit risk for our standardized portfolios was calculated under the current exposure method.

(2) Amounts are calculated after taking into account the effect of credit mitigation strategies.

## CCR3: SA - COUNTERPARTY CREDIT RISK EXPOSURES BY REGULATORY PORTFOLIO AND RISK-WEIGHTS (continued)<sup>(1)(2)</sup>

(\$ millions)

	Q4/18								
	a	b	c	d	e	f	g	h	i
	Risk weight								
	0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
<b>Regulatory portfolio</b>									
Sovereigns	-	-	-	-	-	-	-	-	-
Non-central government public sector entities	-	-	-	-	-	-	-	-	-
Multilateral development banks	-	-	-	-	-	-	-	-	-
Banks	-	-	23	-	-	-	-	-	23
Securities firms	-	-	-	-	-	-	-	-	-
Corporates	2	-	-	-	-	282	-	-	284
Regulatory retail portfolios	-	-	-	-	-	-	-	-	-
Other assets	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2</b>	<b>-</b>	<b>23</b>	<b>-</b>	<b>-</b>	<b>282</b>	<b>-</b>	<b>-</b>	<b>307</b>

For footnotes, see page 34.

## CCR4: COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions)

PD scale	Q3/19						
	a EAD post-CRM	b Average PD %	c Number of obligors <sup>(1)</sup>	d Average LGD %	e Average maturity <sup>(2)</sup>	f RWA	g RWA density %
<b>Corporate</b>							
0.00 to <0.15	9,690	0.07	974	21	1.7	940	10
0.15 to <0.25	3,943	0.18	660	35	1.4	1,221	31
0.25 to <0.50	1,830	0.33	355	34	3.0	824	45
0.50 to <0.75	2,942	0.63	758	30	1.8	1,483	50
0.75 to <2.50	2,521	1.78	890	29	1.2	1,798	71
2.50 to <10.00	357	7.25	471	33	0.8	482	135
10.00 to <100.00	69	21.99	75	21	0.9	82	119
100.00 (Default)	10	100.00	6	39	3.5	50	500
	<b>21,362</b>	<b>0.63</b>	<b>4,189</b>	<b>27</b>	<b>1.7</b>	<b>6,880</b>	<b>32</b>
<b>Sovereign</b>							
0.00 to <0.15	4,099	0.02	87	7	4.7	97	2
0.15 to <0.25	14	0.20	6	28	-	2	14
0.25 to <0.50	2	0.33	2	33	8.2	1	50
0.50 to <0.75	12	0.54	2	40	-	6	50
0.75 to <2.50	-	-	-	-	-	-	-
2.50 to <10.00	-	-	-	-	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
	<b>4,127</b>	<b>0.02</b>	<b>97</b>	<b>7</b>	<b>4.7</b>	<b>106</b>	<b>3</b>
<b>Banks</b>							
0.00 to <0.15	11,198	0.08	156	40	1.5	1,999	18
0.15 to <0.25	1,772	0.19	51	40	2.0	661	37
0.25 to <0.50	208	0.33	21	41	1.3	108	52
0.50 to <0.75	122	0.64	25	41	0.2	75	61
0.75 to <2.50	70	1.56	25	43	0.6	71	101
2.50 to <10.00	3	8.66	13	51	-	6	200
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
	<b>13,373</b>	<b>0.11</b>	<b>291</b>	<b>40</b>	<b>1.6</b>	<b>2,920</b>	<b>22</b>
<b>Total (all portfolios)</b>	<b>38,862</b>	<b>0.39</b>	<b>4,577</b>	<b>29</b>	<b>2.0</b>	<b>9,906</b>	<b>25</b>

(1) Where a guarantee from a third-party exists, the credit rating of both the obligor and the guarantor will be assessed. In situations where an obligor has multiple outstanding exposures, those exposures without a guarantee reflect the PD of the obligor whereas guaranteed exposures will reflect the PD of the third-party. In such situations, the obligor will appear twice in both PD bands.

(2) Denoted in years.

## CCR4: COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD SCALE (continued)

(\$ millions)

PD scale	Q2/19						
	a	b	c	d	e	f	g
	EAD post-CRM	Average PD %	Number of obligors <sup>(1)</sup>	Average LGD %	Average maturity <sup>(2)</sup>	RWA	RWA density %
<b>Corporate</b>							
0.00 to <0.15	9,535	0.08	956	21	1.6	973	10
0.15 to <0.25	3,890	0.18	649	34	1.3	1,170	30
0.25 to <0.50	2,012	0.33	349	35	2.5	865	43
0.50 to <0.75	2,876	0.62	736	30	1.4	1,427	50
0.75 to < 2.50	2,415	1.79	856	24	1.0	1,443	60
2.50 to <10.00	341	6.96	431	34	0.6	476	140
10.00 to <100.00	73	24.36	72	20	0.9	82	112
100.00 (Default)	8	100.00	4	28	-	29	363
	21,150	0.62	4,053	27	1.5	6,465	31
<b>Sovereign</b>							
0.00 to <0.15	4,423	0.02	88	8	4.1	104	2
0.15 to <0.25	9	0.22	4	38	0.4	2	22
0.25 to <0.50	1	0.33	2	33	8.1	1	100
0.50 to <0.75	1	0.54	1	40	-	-	-
0.75 to < 2.50	-	-	-	-	-	-	-
2.50 to <10.00	-	6.08	2	41	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
	4,434	0.02	97	8	4.1	107	2
<b>Banks</b>							
0.00 to <0.15	10,168	0.08	164	40	1.5	1,907	19
0.15 to <0.25	1,838	0.20	56	40	1.6	707	38
0.25 to <0.50	203	0.33	25	41	1.5	102	50
0.50 to <0.75	141	0.61	28	41	0.2	81	57
0.75 to < 2.50	73	1.57	26	42	0.5	68	93
2.50 to <10.00	7	8.23	19	49	-	13	186
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
	12,430	0.12	318	40	1.5	2,878	23
<b>Total (all portfolios)</b>	<b>38,014</b>	<b>0.39</b>	<b>4,468</b>	<b>29</b>	<b>1.8</b>	<b>9,450</b>	<b>25</b>

For footnotes, see page 36.

## CCR4: COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD SCALE (continued)

(\$ millions)

PD scale	Q1/19						
	a	b	c	d	e	f	g
	EAD post-CRM	Average PD %	Number of obligors <sup>(1)</sup>	Average LGD %	Average maturity <sup>(2)</sup>	RWA	RWA density %
<b>Corporate</b>							
0.00 to <0.15	8,674	0.08	941	21	1.6	849	10
0.15 to <0.25	3,171	0.18	666	36	1.3	1,006	32
0.25 to <0.50	1,586	0.33	325	35	2.7	696	44
0.50 to <0.75	2,636	0.62	674	29	1.4	1,233	47
0.75 to < 2.50	2,111	1.82	790	23	0.9	1,229	58
2.50 to <10.00	1,070	6.38	526	13	0.2	570	53
10.00 to <100.00	36	22.52	80	24	0.8	50	139
100.00 (Default)	2	100.00	2	20	-	6	300
	19,286	0.78	4,004	25	1.5	5,639	29
<b>Sovereign</b>							
0.00 to <0.15	5,187	0.02	86	7	3.3	113	2
0.15 to <0.25	11	0.17	3	16	0.3	1	9
0.25 to <0.50	1	0.33	2	35	7.8	-	-
0.50 to <0.75	-	-	-	-	-	-	-
0.75 to < 2.50	-	-	-	-	-	-	-
2.50 to <10.00	23	6.08	3	27	-	19	83
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
	5,222	0.05	94	8	3.3	133	3
<b>Banks</b>							
0.00 to <0.15	10,435	0.08	161	40	1.5	1,903	18
0.15 to <0.25	1,281	0.19	54	40	1.4	469	37
0.25 to <0.50	180	0.33	20	41	1.3	88	49
0.50 to <0.75	116	0.65	27	43	0.6	74	64
0.75 to < 2.50	34	1.57	21	41	0.8	31	91
2.50 to <10.00	2	9.48	7	54	0.1	3	150
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	100.00	1	47	-	-	-
	12,048	0.11	291	40	1.5	2,568	21
<b>Total (all portfolios)</b>	36,556	0.46	4,389	28	1.7	8,340	23

For footnotes, see page 36.



## CCR4: COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD SCALE (continued)

(\$ millions)

PD scale	Q4/18						
	a	b	c	d	e	f	g
	EAD post-CRM	Average PD %	Number of obligors <sup>(1)</sup>	Average LGD %	Average maturity <sup>(2)</sup>	RWA	RWA density %
<b>Corporate</b>							
0.00 to <0.15	9,282	0.07	1,029	20	1.3	798	9
0.15 to <0.25	2,171	0.18	680	33	1.5	592	27
0.25 to <0.50	1,254	0.33	325	31	4.2	448	36
0.50 to <0.75	1,861	0.62	699	33	0.9	943	51
0.75 to < 2.50	1,688	2.00	830	22	0.6	953	56
2.50 to <10.00	306	7.30	485	27	0.4	329	108
10.00 to <100.00	57	29.41	72	19	0.4	62	109
100.00 (Default)	3	100.00	1	15	0.8	5	167
	16,622	0.61	4,121	24	1.4	4,130	25
<b>Sovereign</b>							
0.00 to <0.15	4,622	0.02	85	6	3.7	82	2
0.15 to <0.25	11	0.16	4	16	-	1	9
0.25 to <0.50	-	-	-	-	-	-	-
0.50 to <0.75	-	-	-	-	-	-	-
0.75 to < 2.50	-	-	-	-	-	-	-
2.50 to <10.00	8	6.08	4	26	-	7	88
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
	4,641	0.03	93	6	3.4	90	2
<b>Banks</b>							
0.00 to <0.15	10,797	0.08	163	34	1.6	1,601	15
0.15 to <0.25	1,291	0.18	55	31	2.1	379	29
0.25 to <0.50	421	0.33	23	28	1.1	144	34
0.50 to <0.75	132	0.70	25	32	2.6	59	45
0.75 to < 2.50	105	1.77	24	23	1.1	55	52
2.50 to <10.00	2	9.31	6	12	-	1	50
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
	12,748	0.12	296	33	1.6	2,239	18
<b>Total (all portfolios)</b>	34,011	0.35	4,510	25	1.8	6,459	19

For footnotes, see page 36.

## CCR5: COMPOSITION OF COLLATERAL FOR COUNTERPARTY CREDIT RISK EXPOSURE <sup>(1)</sup>

(\$ millions)

	Q3/19											
	a		b		c		d		e		f	
	Collateral used in derivative transactions						Collateral used in SFTs					
	Fair value of collateral received			Fair value of posted collateral			Fair value of collateral received			Fair value of posted collateral		
	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated
Cash - domestic currency	-	920	-	826	23,108	20,979						
Cash - other currencies	-	2,693	-	4,994	28,890	34,446						
Domestic sovereign debt	-	259	-	1,813	42,273	45,160						
Other sovereign debt	-	315	1,982	1,887	33,717	34,917						
Corporate bonds	-	10	-	-	2,452	1,584						
Equity securities	-	1,996	-	-	14,495	23,707						
Other collateral	-	-	-	511	38	-						
<b>Total</b>	-	<b>6,193</b>	<b>1,982</b>	<b>10,031</b>	<b>144,973</b>	<b>160,793</b>						

(\$ millions)

	Q2/19											
	a		b		c		d		e		f	
	Collateral used in derivative transactions						Collateral used in SFTs					
	Fair value of collateral received			Fair value of posted collateral			Fair value of collateral received			Fair value of posted collateral		
	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated
Cash - domestic currency	-	1,578	-	998	24,573	24,368						
Cash - other currencies	-	2,340	-	4,973	26,801	29,719						
Domestic sovereign debt	-	566	-	1,337	43,872	44,438						
Other sovereign debt	-	375	2,796	1,843	31,851	33,839						
Corporate bonds	-	8	-	-	2,119	1,194						
Equity securities	-	2,142	-	-	14,915	26,074						
Other collateral	-	-	-	472	80	-						
<b>Total</b>	-	<b>7,009</b>	<b>2,796</b>	<b>9,623</b>	<b>144,211</b>	<b>159,632</b>						

(\$ millions)

	Q1/19											
	a		b		c		d		e		f	
	Collateral used in derivative transactions						Collateral used in SFTs					
	Fair value of collateral received			Fair value of posted collateral			Fair value of collateral received			Fair value of posted collateral		
	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated
Cash - domestic currency	-	1,365	-	806	17,553	28,648						
Cash - other currencies	-	1,992	-	4,069	27,548	28,206						
Domestic sovereign debt	-	338	-	1,322	41,596	37,405						
Other sovereign debt	-	278	2,410	1,997	31,232	33,562						
Corporate bonds	-	5	-	-	2,050	555						
Equity securities	-	1,386	-	-	15,374	28,392						
Other collateral	-	2	-	453	131	-						
<b>Total</b>	-	<b>5,366</b>	<b>2,410</b>	<b>8,647</b>	<b>135,484</b>	<b>156,768</b>						

(1) Includes collateral amounts that do not reduce regulatory exposures. Amounts reflect the fair value of collateral posted and received and are reported after considering any applicable haircut. Application of a haircut has the effect of reducing the fair value of collateral received and increasing the fair value of collateral posted.

## CCR5: COMPOSITION OF COLLATERAL FOR COUNTERPARTY CREDIT RISK EXPOSURE (continued) <sup>(1)</sup>

(\$ millions)

	Q4/18											
	a		b		c		d		e		f	
	Collateral used in derivative transactions						Collateral used in SFTs					
	Fair value of collateral received			Fair value of posted collateral			Fair value of collateral received			Fair value of posted collateral		
	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated
Cash - domestic currency	-	1,566	-	741	-	-	12,519	-	-	26,137	-	-
Cash - other currencies	-	2,474	-	4,385	-	-	21,013	-	-	22,805	-	-
Domestic sovereign debt	-	808	-	1,059	-	-	39,913	-	-	32,329	-	-
Other sovereign debt	-	387	1,173	4,253	-	-	25,701	-	-	25,526	-	-
Corporate bonds	-	7	-	-	-	-	2,139	-	-	494	-	-
Equity securities	-	1,943	-	-	-	-	17,270	-	-	30,303	-	-
Other collateral	-	388	-	216	-	-	40	-	-	-	-	-
<b>Total</b>	-	7,573	1,173	10,654	-	-	118,595	-	-	137,594	-	-

For footnotes, see page 40.

## CCR6: CREDIT DERIVATIVES EXPOSURES

(\$ millions)	Q3/19		Q2/19		Q1/19		Q4/18	
	a	b	a	b	a	b	a	b
	Protection bought	Protection sold	Protection bought	Protection sold	Protection bought	Protection sold	Protection bought	Protection sold
<b>Notionals</b>								
Single-name credit default swaps	1,285	199	1,053	176	545	-	567	13
Index credit default swaps	993	195	138	37	315	171	197	197
Total return swaps	-	-	-	-	-	-	-	-
Credit options	-	-	-	-	-	-	-	-
Other credit derivatives	131	-	137	46	384	59	596	260
<b>Total notionals</b>	<b>2,409</b>	<b>394</b>	<b>1,328</b>	<b>259</b>	<b>1,244</b>	<b>230</b>	<b>1,360</b>	<b>470</b>
<b>Fair values</b>								
Positive fair value (asset)	105	1	114	-	112	-	115	3
Negative fair value (liability)	33	110	12	123	11	128	13 <sup>(1)</sup>	131 <sup>(1)</sup>

(1) Prior period amounts have been restated.

## CCR8: EXPOSURES TO CENTRAL COUNTERPARTIES

(\$ millions)	Q3/19		Q2/19		Q1/19		Q4/18	
	a	b	a	b	a	b	a	b
	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA	EAD (post-CRM)	RWA
1 Exposures to QCCPs (total)	6,241	413	6,534	401	4,350	387	10,046	602
2 Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	500	13	481	13	517	11	3,509	74
3 (i) Over-the-counter (OTC) derivatives	4,931	156	5,219	164	3,173	99	5,797	181
4 (ii) Exchange-traded derivatives	810	16	834	17	660	13	740	15
5 (iii) Securities financing transactions	-	-	-	-	-	-	-	-
6 (iv) Netting sets where cross-product netting has been approved	1,981	-	2,796	-	2,410	-	1,173	-
7 Segregated initial margin	1,227	-	1,284	-	1,432	-	3,257	100
8 Non-segregated initial margin	404	228	342	207	431	264	369	232
9 Pre-funded default fund contributions	637	-	590	-	480	-	689	-
10 Unfunded default fund contributions	-	-	-	-	-	-	-	-
11 Exposures to Non-QCCPs (total)	-	-	-	-	-	-	-	-
12 Exposures for trades at non-QCCPs (excluding initial margin and default fund contributions); of which	-	-	-	-	-	-	-	-
13 (i) OTC derivatives	-	-	-	-	-	-	-	-
14 (ii) Exchange-traded derivatives	-	-	-	-	-	-	-	-
15 (iii) Securities financing transactions	-	-	-	-	-	-	-	-
16 (iv) Netting sets where cross-product netting has been approved	-	-	-	-	-	-	-	-
17 Segregated initial margin	-	-	-	-	-	-	-	-
18 Non-segregated initial margin	-	-	-	-	-	-	-	-
19 Pre-funded default fund contributions	-	-	-	-	-	-	-	-
20 Unfunded default fund contributions	-	-	-	-	-	-	-	-

## SEC1: SECURITIZATION EXPOSURES IN THE BANKING BOOK

(\$ millions)

	Q3/19								
	a			e			i		
	Bank acts as originator <sup>(1)</sup>			Bank acts as sponsor <sup>(2)</sup>			Bank acts as investor		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
1 Retail (total) - of which	379	-	379	6,975	-	6,975	2,656	-	2,656
2 residential mortgage	-	-	-	2,339	-	2,339	80	-	80
3 credit card	379	-	379	482	-	482	692	-	692
4 other retail exposures	-	-	-	4,154	-	4,154	1,884	-	1,884
5 resecuritization	-	-	-	-	-	-	-	-	-
6 Wholesale (total) - of which	-	-	-	2,040	-	2,040	2,460	27	2,487
7 loans to corporates	-	-	-	-	-	-	-	-	-
8 commercial mortgage	-	-	-	-	-	-	-	-	-
9 lease and receivables	-	-	-	1,303	-	1,303	2,460	-	2,460
10 other wholesale	-	-	-	737	-	737	-	-	-
11 resecuritization	-	-	-	-	-	-	-	27	27

(\$ millions)

	Q2/19								
	a			e			i		
	Bank acts as originator <sup>(1)</sup>			Bank acts as sponsor <sup>(2)</sup>			Bank acts as investor		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
1 Retail (total) - of which	285	-	285	6,494	-	6,494	2,613	-	2,613
2 residential mortgage	-	-	-	2,336	-	2,336	142	-	142
3 credit card	285	-	285	556	-	556	584	-	584
4 other retail exposures	-	-	-	3,602	-	3,602	1,887	-	1,887
5 resecuritization	-	-	-	-	-	-	-	-	-
6 Wholesale (total) - of which	-	-	-	2,796	-	2,796	2,441	27	2,468
7 loans to corporates	-	-	-	-	-	-	-	-	-
8 commercial mortgage	-	-	-	-	-	-	-	-	-
9 lease and receivables	-	-	-	2,060	-	2,060	2,441	-	2,441
10 other wholesale	-	-	-	736	-	736	-	-	-
11 resecuritization	-	-	-	-	-	-	-	27	27

(\$ millions)

	Q1/19								
	a			e			i		
	Bank acts as originator <sup>(1)</sup>			Bank acts as sponsor <sup>(2)</sup>			Bank acts as investor		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
1 Retail (total) - of which	507	-	507	6,895	-	6,895	2,577	-	2,577
2 residential mortgage	-	-	-	2,336	-	2,336	142	-	142
3 credit card	507	-	507	805	-	805	574	-	574
4 other retail exposures	-	-	-	3,754	-	3,754	1,861	-	1,861
5 resecuritization	-	-	-	-	-	-	-	-	-
6 Wholesale (total) - of which	-	-	-	2,664	-	2,664	2,127	28	2,155
7 loans to corporates	-	-	-	-	-	-	-	-	-
8 commercial mortgage	-	-	-	-	-	-	-	-	-
9 lease and receivables	-	-	-	1,928	-	1,928	2,123	-	2,123
10 other wholesale	-	-	-	736	-	736	-	-	-
11 resecuritization	-	-	-	-	-	-	4	28	32

(1) Prior to Q1/19, exposures associated with our credit card securitization trust, CARDS II Trust, were risk-weighted under the credit risk framework.

(2) Includes exposures relating to CIBC-sponsored multi-seller conduits.

## SEC1: SECURITIZATION EXPOSURES IN THE BANKING BOOK (continued)

(\$ millions)

	Q4/18																										
	a			b			c			e			f			g			i			j			k		
	Bank acts as originator <sup>(1)</sup>			Bank acts as sponsor <sup>(2)</sup>			Bank acts as investor																				
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total			
1 Retail (total) - of which	<b>318</b>	-	<b>318</b>	<b>6,327</b>	-	<b>6,327</b>	<b>2,454</b>	-	<b>2,454</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2 residential mortgage	-	-	-	2,098	-	2,098	142	-	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3 credit card	318	-	318	749	-	749	461	-	461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
4 other retail exposures	-	-	-	3,480	-	3,480	1,851	-	1,851	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5 resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6 Wholesale (total) - of which	-	-	-	<b>3,058</b>	-	<b>3,058</b>	<b>1,796</b>	<b>26</b>	<b>1,822</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
7 loans to corporates	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
8 commercial mortgage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
9 lease and receivables	-	-	-	2,309	-	2,309	1,790	-	1,790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10 other wholesale	-	-	-	749	-	749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11 resecuritization	-	-	-	-	-	-	6	26	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

For footnotes, see page 43.

## SEC2: SECURITIZATION EXPOSURES IN THE TRADING BOOK <sup>(1)</sup>

(\$ millions)

	Q3/19																										
	a			b			c			e			f			g			i			j			k		
	Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor			Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor			Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
1 Retail (total) - of which	1	-	1	3	-	3	185	-	185																		
2 residential mortgage	-	-	-	1	-	1	40	-	40																		
3 credit card	1	-	1	-	-	-	96	-	96																		
4 other retail exposures	-	-	-	2	-	2	49	-	49																		
5 resecuritization	-	-	-	-	-	-	-	-	-																		
6 Wholesale (total) - of which	-	-	-	1	-	1	1	-	1																		
7 loans to corporates	-	-	-	-	-	-	-	-	-																		
8 commercial mortgage	-	-	-	-	-	-	1	-	1																		
9 lease and receivables	-	-	-	1	-	1	-	-	-																		
10 other wholesale	-	-	-	-	-	-	-	-	-																		
11 resecuritization	-	-	-	-	-	-	-	-	-																		

(\$ millions)

	Q2/19																										
	a			b			c			e			f			g			i			j			k		
	Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor			Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor			Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
1 Retail (total) - of which	-	-	-	9	-	9	203	-	203																		
2 residential mortgage	-	-	-	3	-	3	42	-	42																		
3 credit card	-	-	-	1	-	1	105	-	105																		
4 other retail exposures	-	-	-	5	-	5	56	-	56																		
5 resecuritization	-	-	-	-	-	-	-	-	-																		
6 Wholesale (total) - of which	-	-	-	3	-	3	1	-	1																		
7 loans to corporates	-	-	-	-	-	-	-	-	-																		
8 commercial mortgage	-	-	-	-	-	-	1	-	1																		
9 lease and receivables	-	-	-	1	-	1	-	-	-																		
10 other wholesale	-	-	-	2	-	2	-	-	-																		
11 resecuritization	-	-	-	-	-	-	-	-	-																		

(\$ millions)

	Q1/19																										
	a			b			c			e			f			g			i			j			k		
	Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor			Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor			Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
1 Retail (total) - of which	-	-	-	9	-	9	294	-	294																		
2 residential mortgage	-	-	-	4	-	4	165	-	165																		
3 credit card	-	-	-	1	-	1	52	-	52																		
4 other retail exposures	-	-	-	4	-	4	77	-	77																		
5 resecuritization	-	-	-	-	-	-	-	-	-																		
6 Wholesale (total) - of which	-	-	-	4	-	4	2	-	2																		
7 loans to corporates	-	-	-	-	-	-	-	-	-																		
8 commercial mortgage	-	-	-	-	-	-	1	-	1																		
9 lease and receivables	-	-	-	3	-	3	1	-	1																		
10 other wholesale	-	-	-	1	-	1	-	-	-																		
11 resecuritization	-	-	-	-	-	-	-	-	-																		

(1) Exposures included in this table are risk-weighted under the market risk framework.  
(2) Includes direct investments in CARDS II Trust.  
(3) Includes direct investments in CIBC-sponsored multi-seller conduits.

## SEC2: SECURITIZATION EXPOSURES IN THE TRADING BOOK (continued) <sup>(1)</sup>

(\$ millions)

	Q4/18								
	a	b	c	e			i		
	Bank acts as originator <sup>(2)</sup>			Bank acts as sponsor <sup>(3)</sup>			Bank acts as investor		
	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
1 Retail (total) - of which	2	-	2	7	-	7	238	-	238
2 residential mortgage	-	-	-	2	-	2	124	-	124
3 credit card	2	-	2	1	-	1	85	-	85
4 other retail exposures	-	-	-	4	-	4	29	-	29
5 resecuritization	-	-	-	-	-	-	-	-	-
6 Wholesale (total) - of which	-	-	-	3	-	3	2	-	2
7 loans to corporates	-	-	-	-	-	-	-	-	-
8 commercial mortgage	-	-	-	-	-	-	1	-	1
9 lease and receivables	-	-	-	2	-	2	1	-	1
10 other wholesale	-	-	-	1	-	1	-	-	-
11 resecuritization	-	-	-	-	-	-	-	-	-

For footnotes, see page 45.



## SEC3: SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED REGULATORY CAPITAL REQUIREMENTS - BANK ACTING AS ORIGINATOR OR AS SPONSOR <sup>(1)</sup>

(\$ millions)

	Q3/19																
	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) <sup>(2)</sup>				Capital charge after cap			
	>20%		to >50%		to >100%		ERBA (including IAA)		SA 1250%		ERBA (including IAA)		SA 1250%		ERBA (including IAA)		SA 1250%
≤20% RW	50% RW	100% RW	1250% RW	1250% RW	IRBA	IAA	SA	1250%	IRBA	IAA	SA	1250%	IRBA	IAA	SA	1250%	
1 Total exposures	9,174	-	-	211	11	176	9,220	-	-	153	1,253	-	-	12	100	-	-
2 Traditional securitization	9,174	-	-	211	11	176	9,220	-	-	153	1,253	-	-	12	100	-	-
3 Of which securitization	9,174	-	-	211	11	176	9,220	-	-	153	1,253	-	-	12	100	-	-
4 Of which retail underlying	7,134	-	-	211	11	11	7,345	-	-	137	1,065	-	-	11	85	-	-
5 Of which wholesale	2,040	-	-	-	-	165	1,875	-	-	16	188	-	-	1	15	-	-
6 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(\$ millions)

	Q2/19																
	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) <sup>(2)</sup>				Capital charge after cap			
	>20%		to >50%		to >100%		ERBA (including IAA)		SA 1250%		ERBA (including IAA)		SA 1250%		ERBA (including IAA)		SA 1250%
≤20% RW	50% RW	100% RW	1250% RW	1250% RW	IRBA	IAA	SA	1250%	IRBA	IAA	SA	1250%	IRBA	IAA	SA	1250%	
1 Total exposures	9,364	-	-	211	-	636	8,939	-	-	87	1,182	-	-	7	95	-	-
2 Traditional securitization	9,364	-	-	211	-	636	8,939	-	-	87	1,182	-	-	7	95	-	-
3 Of which securitization	9,364	-	-	211	-	636	8,939	-	-	87	1,182	-	-	7	95	-	-
4 Of which retail underlying	6,568	-	-	211	-	-	6,779	-	-	-	966	-	-	-	78	-	-
5 Of which wholesale	2,796	-	-	-	-	636	2,160	-	-	87	216	-	-	7	17	-	-
6 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(1) Prior to Q1/19, exposures associated with our credit card securitization trust, CARDS II Trust, were risk-weighted under the credit risk framework.

(2) Excludes the impact of the one-year phase in of the initial impact of the adoption of the securitization framework.

**SEC3: SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED REGULATORY CAPITAL REQUIREMENTS - BANK ACTING AS ORIGINATOR OR AS SPONSOR (continued) <sup>(1)</sup>**

(\$ millions)

	Q1/19																	
	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) <sup>(2)</sup>				Capital charge after cap			
	<=20% RW	>20% to 50% RW	>50% to 100% RW	>100% to < 1250% RW	1250% RW	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%	
1 Total exposures	9,748	-	-	318	-	624	9,442	-	-	86	1,381	-	-	7	110	-	-	
2 Traditional securitization	9,748	-	-	318	-	624	9,442	-	-	86	1,381	-	-	7	110	-	-	
3 Of which securitization	9,748	-	-	318	-	624	9,442	-	-	86	1,381	-	-	7	110	-	-	
4 Of which retail underlying	7,084	-	-	318	-	-	7,402	-	-	-	1,177	-	-	-	94	-	-	
5 Of which wholesale	2,664	-	-	-	-	624	2,040	-	-	86	204	-	-	7	16	-	-	
6 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9 Synthetic securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(\$ millions)

	Q4/18																	
	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)				Capital charge after cap			
	<=20% RW	>20% to 50% RW	>50% to 100% RW	>100% to < 1250% RW	1250% RW	(including IAA)	IRB RBA	IRB SFA	SA/SSFA	1250%	(including IAA)	IRB SFA	SA/SSFA	1250%	(including IAA)	IRB SFA	SA/SSFA	1250%
1 Total exposures	9,385	-	-	-	-	8,759	625	-	-	650	68	-	-	54	5	-	-	
2 Traditional securitization	9,385	-	-	-	-	8,759	625	-	-	650	68	-	-	54	5	-	-	
3 Of which securitization	9,385	-	-	-	-	8,759	625	-	-	650	68	-	-	54	5	-	-	
4 Of which retail underlying	6,327	-	-	-	-	6,326	-	-	-	470	-	-	-	39	-	-	-	
5 Of which wholesale	3,058	-	-	-	-	2,433	625	-	-	180	68	-	-	15	5	-	-	
6 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9 Synthetic securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

For footnotes, see page 47.



## SEC4: SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED REGULATORY CAPITAL REQUIREMENTS - BANK ACTING AS INVESTOR

(\$ millions)

	Q3/19																
	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) <sup>(1)</sup>				Capital charge after cap			
	≤20% RW	>20% to 50% RW	>50% to 100% RW	>100% to < 1250% RW	1250% RW	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%
1 Total exposures	4,396	621	97	27	-	1,770	3,344	27	-	217	504	210	-	18	40	17	-
2 Traditional securitization	4,396	621	97	-	-	1,770	3,344	-	-	217	504	-	-	18	40	-	-
3 Of which securitization	4,396	621	97	-	-	1,770	3,344	-	-	217	504	-	-	18	40	-	-
4 Of which retail underlying	2,053	602	-	-	-	1,361	1,294	-	-	136	250	-	-	11	20	-	-
5 Of which wholesale	2,343	19	97	-	-	409	2,050	-	-	81	254	-	-	7	20	-	-
6 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	-	-	-	27	-	-	-	27	-	-	-	210	-	-	-	17	-
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Of which resecuritization	-	-	-	27	-	-	-	27	-	-	-	210	-	-	-	17	-
14 Of which senior	-	-	-	27	-	-	-	27	-	-	-	210	-	-	-	17	-
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(\$ millions)

	Q2/19																
	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) <sup>(1)</sup>				Capital charge after cap			
	≤20% RW	>20% to 50% RW	>50% to 100% RW	>100% to < 1250% RW	1250% RW	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%
1 Total exposures	4,348	681	25	27	-	1,628	3,426	27	-	179	526	133	-	14	42	11	-
2 Traditional securitization	4,348	681	25	-	-	1,628	3,426	-	-	179	526	-	-	14	42	-	-
3 Of which securitization	4,348	681	25	-	-	1,628	3,426	-	-	179	526	-	-	14	42	-	-
4 Of which retail underlying	2,023	590	-	-	-	1,214	1,399	-	-	121	283	-	-	9	23	-	-
5 Of which wholesale	2,325	91	25	-	-	414	2,027	-	-	58	243	-	-	5	19	-	-
6 Of which resecuritization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	-	-	-	27	-	-	-	27	-	-	-	133	-	-	-	11	-
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Of which resecuritization	-	-	-	27	-	-	-	27	-	-	-	133	-	-	-	11	-
14 Of which senior	-	-	-	27	-	-	-	27	-	-	-	133	-	-	-	11	-
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(1) Excludes the impact of the one-year phase in of the initial impact of the adoption of the securitization framework.

## SEC4: SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED REGULATORY CAPITAL REQUIREMENTS - BANK ACTING AS INVESTOR (continued)

(\$ millions)

	Q1/19																
	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) <sup>(1)</sup>				Capital charge after cap			
	>20% to ≤20% RW	>50% to 100% RW	>100% to < 1250% RW	1250% RW	1250% RW	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%	IRBA	ERBA (including IAA)	SA	1250%
1 Total exposures	4,187	517	-	28	-	1,601	3,103	28	-	166	471	132	-	14	37	11	-
2 Traditional securitization	4,187	517	-	-	-	1,601	3,103	-	-	166	471	-	-	14	37	-	-
3 Of which securitization	4,183	517	-	-	-	1,601	3,099	-	-	166	471	-	-	14	37	-	-
4 Of which retail underlying	2,060	517	-	-	-	1,193	1,384	-	-	119	281	-	-	10	22	-	-
5 Of which wholesale	2,123	-	-	-	-	408	1,715	-	-	47	190	-	-	4	15	-	-
6 Of which resecuritization	4	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	4	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	-	-	-	28	-	-	-	28	-	-	-	132	-	-	-	11	-
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Of which resecuritization	-	-	-	28	-	-	-	28	-	-	-	132	-	-	-	11	-
14 Of which senior	-	-	-	28	-	-	-	28	-	-	-	132	-	-	-	11	-
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(\$ millions)

	Q4/18																
	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)				Capital charge after cap			
	>20% to ≤20% RW	>50% to 100% RW	>100% to < 1250% RW	1250% RW	1250% RW	IRB RBA (including IAA)	IRB SFA	SA/ SSFA	1250%	(including IAA)	IRB SFA	SA/ SSFA	1250%	(including IAA)	IRB SFA	SA/ SSFA	1250%
1 Total exposures	4,250	-	-	26	-	2,641	1,636	-	-	220	175	-	-	17	13	-	-
2 Traditional securitization	4,250	-	-	-	-	2,641	1,610	-	-	220	120	-	-	17	9	-	-
3 Of which securitization	4,244	-	-	-	-	2,635	1,610	-	-	220	120	-	-	17	9	-	-
4 Of which retail underlying	2,454	-	-	-	-	1,259	1,195	-	-	118	89	-	-	9	7	-	-
5 Of which wholesale	1,790	-	-	-	-	1,376	415	-	-	102	31	-	-	8	2	-	-
6 Of which resecuritization	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	-	-	-	26	-	-	26	-	-	-	55	-	-	-	4	-	-
10 Of which securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Of which resecuritization	-	-	-	26	-	-	26	-	-	-	55	-	-	-	4	-	-
14 Of which senior	-	-	-	26	-	-	26	-	-	-	55	-	-	-	4	-	-
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

For footnotes, see page 49.



# SUPPLEMENTARY REGULATORY CAPITAL DISCLOSURES

## CREDIT EXPOSURE (EAD <sup>(1)</sup>)

(\$ millions)

	Q3/19		Q2/19		Q1/19		Q4/18		Q3/18	
	AIRB approach <sup>(2)</sup>	Standardized approach	AIRB approach <sup>(2)</sup>	Standardized approach	AIRB approach <sup>(2)</sup>	Standardized approach	AIRB approach <sup>(2)</sup>	Standardized approach	AIRB approach <sup>(2)</sup>	Standardized approach
<b>Business and government portfolios</b>										
<b>Corporate</b>										
Drawn	95,377	30,916	94,129	30,142	89,773	27,634	85,899	27,018	84,468	25,968
Undrawn commitments	44,114	5,746	43,408	5,680	41,186	5,351	43,180	4,885	42,096	4,816
Repo-style transactions	116,726	8	109,279	1	101,294	-	91,970	2	96,429	8
Other off-balance sheet	13,567	979	13,448	1,002	14,382	934	14,496	827	15,099	811
OTC derivatives	14,052	-	14,006	-	12,320	-	9,440	35	9,122	37
	<b>283,836</b>	<b>37,649</b>	<b>274,270</b>	<b>36,825</b>	<b>258,955</b>	<b>33,919</b>	<b>244,985</b>	<b>32,767</b>	<b>247,214</b>	<b>31,640</b>
<b>Sovereign</b>										
Drawn	67,781	13,126	66,388	12,944	52,762	13,745	51,703	12,047	54,102	11,660
Undrawn commitments	6,461	-	6,484	-	6,379	-	6,576	-	6,395	-
Repo-style transactions	15,823	-	18,660	-	22,851	-	16,929	-	17,320	-
Other off-balance sheet	1,768	-	725	-	605	-	753	-	534	-
OTC derivatives	3,043	-	3,204	1	3,029	1	3,454	-	2,553	-
	<b>94,876</b>	<b>13,126</b>	<b>95,461</b>	<b>12,945</b>	<b>85,626</b>	<b>13,746</b>	<b>79,415</b>	<b>12,047</b>	<b>80,904</b>	<b>11,660</b>
<b>Banks</b>										
Drawn	13,443	1,920	12,372	2,085	15,361	1,952	13,697	1,868	13,393	2,000
Undrawn commitments	1,461	7	1,488	6	1,239	4	1,041	5	1,037	5
Repo-style transactions	27,670	-	26,249	-	28,753	-	28,860	-	24,093	-
Other off-balance sheet	61,999	-	66,521	-	65,925	-	65,253	-	67,347	-
OTC derivatives	9,663	597	8,903	457	8,190	391	8,727	286	8,657	278
	<b>114,236</b>	<b>2,524</b>	<b>115,533</b>	<b>2,548</b>	<b>119,468</b>	<b>2,347</b>	<b>117,578</b>	<b>2,159</b>	<b>114,527</b>	<b>2,283</b>
<b>Gross business and government portfolios</b>	<b>492,948</b>	<b>53,299</b>	<b>485,264</b>	<b>52,318</b>	<b>464,049</b>	<b>50,012</b>	<b>441,978</b>	<b>46,973</b>	<b>442,645</b>	<b>45,583</b>
Less: collateral held for repo-style transactions	148,115	-	142,287	-	139,881	-	125,368	-	125,769	-
<b>Net business and government portfolios</b>	<b>344,833</b>	<b>53,299</b>	<b>342,977</b>	<b>52,318</b>	<b>324,168</b>	<b>50,012</b>	<b>316,610</b>	<b>46,973</b>	<b>316,876</b>	<b>45,583</b>
<b>Retail portfolios</b>										
<b>Real estate secured personal lending</b>										
Drawn	222,383	4,012	222,615	3,967	223,381	3,775	224,501	3,743	225,107	3,551
Undrawn commitments	20,784	2	20,061	1	19,188	2	19,572	2	19,962	3
	<b>243,167</b>	<b>4,014</b>	<b>242,676</b>	<b>3,968</b>	<b>242,569</b>	<b>3,777</b>	<b>244,073</b>	<b>3,745</b>	<b>245,069</b>	<b>3,554</b>
<b>Qualifying revolving retail</b>										
Drawn	19,265	-	19,767	-	19,013	-	22,469	-	22,337	-
Undrawn commitments	49,192	-	52,866	-	52,669	-	51,836	-	50,762	-
Other off-balance sheet	274	-	283	-	251	-	277	-	273	-
	<b>68,731</b>	<b>-</b>	<b>72,916</b>	<b>-</b>	<b>71,933</b>	<b>-</b>	<b>74,582</b>	<b>-</b>	<b>73,372</b>	<b>-</b>
<b>Other retail</b>										
Drawn	13,110	1,227	12,522	1,247	12,128	1,226	12,158	1,239	11,828	1,144
Undrawn commitments	2,529	26	2,451	26	2,502	26	2,546	26	2,487	26
Other off-balance sheet	35	-	30	-	38	-	9	-	29	-
	<b>15,674</b>	<b>1,253</b>	<b>15,003</b>	<b>1,273</b>	<b>14,668</b>	<b>1,252</b>	<b>14,713</b>	<b>1,265</b>	<b>14,344</b>	<b>1,170</b>
<b>Total retail portfolios</b>	<b>327,572</b>	<b>5,267</b>	<b>330,595</b>	<b>5,241</b>	<b>329,170</b>	<b>5,029</b>	<b>333,368</b>	<b>5,010</b>	<b>332,785</b>	<b>4,724</b>
<b>Securitization exposures <sup>(3)</sup></b>	<b>10,847</b>	<b>3,690</b>	<b>10,968</b>	<b>3,688</b>	<b>11,210</b>	<b>3,588</b>	<b>13,661</b>	<b>-</b>	<b>14,054</b>	<b>-</b>
<b>Gross credit exposure</b>	<b>831,367</b>	<b>62,256</b>	<b>826,827</b>	<b>61,247</b>	<b>804,429</b>	<b>58,629</b>	<b>789,007</b>	<b>51,983</b>	<b>789,484</b>	<b>50,307</b>
Less: collateral held for repo-style transactions	148,115	-	142,287	-	139,881	-	125,368	-	125,769	-
<b>Net credit exposure <sup>(4)</sup></b>	<b>683,252</b>	<b>62,256</b>	<b>684,540</b>	<b>61,247</b>	<b>664,548</b>	<b>58,629</b>	<b>663,639</b>	<b>51,983</b>	<b>663,715</b>	<b>50,307</b>

(1) Gross credit exposure is net of derivative master netting agreements and CVA but is before allowance for credit losses or credit risk mitigation.

(2) Includes exposures subject to the supervisory slotting approach.

(3) OSFI guidelines define a hierarchy of approaches for treating securitization exposures in our banking book. Depending on the underlying characteristics, exposures are eligible for either the standardized approach or the IRB approach. The ERBA, which is inclusive of IAA, includes exposures that qualify for the IRB approach, as well as exposures under the standardized approach.

(4) Excludes exposures arising from derivative and repo-style transactions which are cleared through QCCPs as well as credit risk exposures arising from other assets that are subject to the credit risk framework but are not included in the standardized or IRB frameworks, including other balance sheet assets which are risk-weighted at 100%, significant investments in the capital of non-financial institutions which are risk-weighted at 1250%, settlement risk, and amounts below the thresholds for deduction which are risk-weighted at 250%.



## CREDIT EXPOSURE - GEOGRAPHIC CONCENTRATION <sup>(1)</sup>

(\$ millions)

	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
<b>Business and government</b>					
<b>Canada</b>					
Drawn	121,752	119,163	108,579	100,788	95,072
Undrawn commitments	38,611	38,792	36,685	37,989	37,449
Repo-style transactions	7,018	6,287	7,436	7,364	6,582
Other off-balance sheet	57,376	59,241	60,324	57,217	59,687
OTC derivatives	12,629	12,731	11,506	10,484	9,882
	<b>237,386</b>	<b>236,214</b>	<b>224,530</b>	<b>213,842</b>	<b>208,672</b>
<b>United States</b>					
Drawn	39,223	38,016	33,452	35,190	41,594
Undrawn commitments	9,639	8,823	8,424	8,992	8,413
Repo-style transactions	3,288	3,695	3,800	2,961	3,521
Other off-balance sheet	12,901	11,698	12,016	14,570	16,190
OTC derivatives	6,742	6,654	6,189	6,198	5,919
	<b>71,793</b>	<b>68,886</b>	<b>63,881</b>	<b>67,911</b>	<b>75,637</b>
<b>Europe</b>					
Drawn	5,596	5,352	5,540	6,278	6,217
Undrawn commitments	2,466	2,433	2,291	2,272	2,296
Repo-style transactions	689	900	811	1,014	906
Other off-balance sheet	6,182	9,077	7,905	8,175	6,580
OTC derivatives	4,986	4,505	3,845	3,516	3,169
	<b>19,919</b>	<b>22,267</b>	<b>20,392</b>	<b>21,255</b>	<b>19,168</b>
<b>Other countries</b>					
Drawn	10,030	10,358	10,325	9,043	9,080
Undrawn commitments	1,320	1,332	1,404	1,544	1,370
Repo-style transactions	1,109	1,019	970	1,052	1,064
Other off-balance sheet	875	678	667	540	523
OTC derivatives	2,401	2,223	1,999	1,423	1,362
	<b>15,735</b>	<b>15,610</b>	<b>15,365</b>	<b>13,602</b>	<b>13,399</b>
	<b>344,833</b>	<b>342,977</b>	<b>324,168</b>	<b>316,610</b>	<b>316,876</b>

(1) This table provides information on our business and government exposures under the AIRB approach. Substantially all of our retail exposures under the AIRB approach are based in Canada.

## CREDIT EXPOSURE - MATURITY PROFILE <sup>(1)</sup>

(\$ millions)

	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
<b>Business and government portfolios</b>					
<b>Corporate</b>					
Less than 1 year <sup>(2)</sup>	66,886	65,398	63,818	64,031	63,506
1 - 3 years	59,096	59,614	53,414	53,240	53,430
3 - 5 years	45,812	44,715	45,181	41,327	39,054
Over 5 years	2,626	2,408	2,214	1,599	1,793
	<b>174,420</b>	<b>172,135</b>	<b>164,627</b>	<b>160,197</b>	<b>157,783</b>
<b>Sovereign</b>					
Less than 1 year <sup>(2)</sup>	14,448	11,569	11,804	14,672	17,429
1 - 3 years	22,181	21,689	21,009	17,739	20,028
3 - 5 years	42,410	43,827	31,012	29,981	26,314
Over 5 years	1,098	946	1,143	1,283	1,160
	<b>80,137</b>	<b>78,031</b>	<b>64,968</b>	<b>63,675</b>	<b>64,931</b>
<b>Banks</b>					
Less than 1 year <sup>(2)</sup>	74,672	78,138	78,456	75,868	77,489
1 - 3 years	13,628	12,311	12,887	13,518	13,637
3 - 5 years	1,883	2,038	2,588	2,800	2,337
Over 5 years	93	324	642	552	699
	<b>90,276</b>	<b>92,811</b>	<b>94,573</b>	<b>92,738</b>	<b>94,162</b>
<b>Total business and government portfolios</b>	<b>344,833</b>	<b>342,977</b>	<b>324,168</b>	<b>316,610</b>	<b>316,876</b>
<b>Retail portfolios</b>					
<b>Real estate and secured personal lending</b>					
Less than 1 year <sup>(2)</sup>	88,545	85,324	82,810	82,713	82,326
1 - 3 years	97,984	99,571	103,063	103,552	102,426
3 - 5 years	52,732	54,090	53,464	55,006	57,981
Over 5 years	3,906	3,691	3,232	2,802	2,336
	<b>243,167</b>	<b>242,676</b>	<b>242,569</b>	<b>244,073</b>	<b>245,069</b>
<b>Qualifying revolving retail</b>					
Less than 1 year <sup>(2)</sup>	68,731	72,916	71,933	74,582	73,372
	<b>68,731</b>	<b>72,916</b>	<b>71,933</b>	<b>74,582</b>	<b>73,372</b>
<b>Other retail</b>					
Less than 1 year <sup>(2)</sup>	12,296	12,036	12,100	12,403	12,416
1 - 3 years	273	288	236	212	186
3 - 5 years	1,209	1,002	836	703	552
Over 5 years	1,896	1,677	1,496	1,395	1,190
	<b>15,674</b>	<b>15,003</b>	<b>14,668</b>	<b>14,713</b>	<b>14,344</b>
<b>Total retail portfolios</b>	<b>327,572</b>	<b>330,595</b>	<b>329,170</b>	<b>333,368</b>	<b>332,785</b>
<b>Total credit exposure</b>	<b>672,405</b>	<b>673,572</b>	<b>653,338</b>	<b>649,978</b>	<b>649,661</b>

(1) Excludes securitization exposures.

(2) Demand loans are included in the "Less than 1 year" category.



## CREDIT RISK ASSOCIATED WITH DERIVATIVES <sup>(1)</sup>

(\$ millions)

	Q3/19			Credit equivalent amount	Q3/19	Q2/19	Q1/19	Q4/18	Q3/18
	Current replacement cost				Risk-weighted amount				
	Trading	ALM	Total						
<b>Interest rate derivatives</b>									
Over-the-counter									
Forward rate agreements	-	6	6	49	7	3	9	2	1
Swap contracts	2,277	100	2,377	7,081	2,274	1,878	1,543	539	544
Purchased options	12	-	12	75	57	52	45	8	12
	<b>2,289</b>	<b>106</b>	<b>2,395</b>	<b>7,205</b>	<b>2,338</b>	<b>1,933</b>	<b>1,597</b>	<b>549</b>	<b>557</b>
Exchange-traded	5	-	5	199	5	5	2	5	3
<b>Total interest rate derivatives</b>	<b>2,294</b>	<b>106</b>	<b>2,400</b>	<b>7,404</b>	<b>2,343</b>	<b>1,938</b>	<b>1,599</b>	<b>554</b>	<b>560</b>
<b>Foreign exchange derivatives</b>									
Over-the-counter									
Forward contracts	1,052	3	1,055	6,792	1,826	1,587	1,450	1,017	892
Swap contracts	842	17	859	4,515	978	1,017	893	886	928
Purchased options	96	-	96	728	207	205	235	83	68
	<b>1,990</b>	<b>20</b>	<b>2,010</b>	<b>12,035</b>	<b>3,011</b>	<b>2,809</b>	<b>2,578</b>	<b>1,986</b>	<b>1,888</b>
<b>Credit derivatives</b>									
Over-the-counter									
Credit default swap contracts - protection purchased	2	4	6	33	14	6	-	9	10
Credit default swap contracts - protection sold	-	-	-	3	1	1	-	-	-
	<b>2</b>	<b>4</b>	<b>6</b>	<b>36</b>	<b>15</b>	<b>7</b>	<b>-</b>	<b>9</b>	<b>10</b>
<b>Equity derivatives</b>									
Over-the-counter	419	11	430	4,280	1,031	1,098	954	535	421
Exchange-traded	659	-	659	3,206	90	105	57	116	119
	<b>1,078</b>	<b>11</b>	<b>1,089</b>	<b>7,486</b>	<b>1,121</b>	<b>1,203</b>	<b>1,011</b>	<b>651</b>	<b>540</b>
<b>Precious metal derivatives</b>									
Over-the-counter	52	-	52	362	123	62	103	23	19
Exchange-traded	2	-	2	251	10	4	2	1	1
	<b>54</b>	<b>-</b>	<b>54</b>	<b>613</b>	<b>133</b>	<b>66</b>	<b>105</b>	<b>24</b>	<b>20</b>
<b>Other commodity derivatives</b>									
Over-the-counter	608	94	702	3,936	1,295	1,545	1,304	1,523	1,306
Exchange-traded	7	-	7	1,276	51	51	37	59	58
	<b>615</b>	<b>94</b>	<b>709</b>	<b>5,212</b>	<b>1,346</b>	<b>1,596</b>	<b>1,341</b>	<b>1,582</b>	<b>1,364</b>
<b>Non-trade exposure related to central counterparties</b>					<b>244</b>	<b>223</b>	<b>278</b>	<b>224</b>	<b>208</b>
<b>CET1 CVA capital charge</b>					<b>6,151</b>	<b>6,705</b>	<b>5,790</b>	<b>4,236</b>	<b>3,956</b>
<b>Total derivatives</b>	<b>6,033</b>	<b>235</b>	<b>6,268</b>	<b>32,786</b>	<b>14,364</b>	<b>14,547</b>	<b>12,702</b>	<b>9,266</b>	<b>8,546</b>

(1) In Q1/19, we adopted SA-CCR for the determination of capital requirements relating to counterparty credit risk, which impacted the calculation of replacement cost, credit equivalent amount and risk-weighted assets. Beginning in Q1/19, replacement cost includes the impact of certain collateral amounts that were previously excluded from this calculation. Also beginning in Q1/19, credit equivalent amount is calculated as the sum of replacement cost and potential future exposure, multiplied by an alpha of 1.4, and is reduced by CVA losses.



## AIRB CREDIT RISK EXPOSURE - LOSS EXPERIENCE <sup>(1)</sup>

	Q3/19		Q2/19		Q1/19		Q4/18		Q3/18	
	Expected loss rate %	Actual loss rate %	Expected loss rate %	Actual loss rate %	Expected loss rate %	Actual loss rate %	Expected loss rate %	Actual loss rate %	Expected loss rate %	Actual loss rate %
<b>Business and government portfolios</b>										
Corporate	0.44	0.20	0.47	0.18	0.49	0.16	0.49	0.05	0.50	0.05
Sovereign	0.01	-	0.01	-	0.01	-	0.01	-	0.01	-
Banks	0.10	-	0.11	-	0.11	-	0.12	-	0.10	-
<b>Retail portfolios</b>										
Real estate secured personal lending	0.10	0.01	0.10	0.01	0.10	0.01	0.09	0.01	0.09	0.01
Qualifying revolving retail	3.76	2.82	3.82	2.82	3.72	2.46	3.83	2.80	3.70	2.78
Other retail	2.26	0.74	2.30	0.76	2.41	0.81	2.17	0.80	2.35	0.82

(1) Actual loss rates for each quarter represent the write-offs less recoveries plus the change in allowance for impaired loans for the previous 12 months, divided by the outstanding balance at the beginning of the previous 12 month period. The expected loss rate represents the loss rate that was predicted by the Basel parameter estimates at the beginning of the period defined above.

Differences between actual and expected loss rates are due to the following reasons:

Expected losses are generally calculated using "through the business cycle" risk parameters while actual losses are determined at a "point in time" and reflect more current economic conditions. "Through the cycle" parameters are estimated to include a long time horizon and as a result, actual losses may exceed expected losses during an economic downturn and may fall below expected losses during times of economic growth.



**Advanced internal ratings-based (AIRB) approach for credit risk**

Internal models based on historical experience of key risk assumptions such as PD, LGD and EAD are used to compute the capital requirements subject to OSFI approval. A transitional capital floor based on the Basel II standardized approach is also calculated by banks under the AIRB approach for credit risk and an adjustment to RWA may be required as prescribed by OSFI.

**Advanced measurement approach (AMA) for operational risk**

A risk-sensitive approach to calculating the capital charge for operational risk based on internal risk measurement models, using a combination of quantitative and qualitative risk measurement techniques.

**Business and government portfolio**

A category of exposures that includes lending to businesses and governments, where the primary basis of adjudication relies on the determination and assignment of an appropriate risk rating, that reflects the credit risk of the exposure.

**Central counterparty (CCP)**

A clearing house that interposes itself between counterparties to contracts traded in one or more financial markets, becoming the buyer to every seller and the seller to every buyer and thereby ensuring the future performance of open contracts.

**Common Equity Tier 1 (CET1), Tier 1 and Total capital ratios**

CET1, Tier 1 and total regulatory capital, divided by RWA, as defined by OSFI's Capital Adequacy Requirements Guideline, which is based on BCBS standards. During 2018, before any capital floor requirement, there were three different levels of RWA for the calculation of CIBC's CET1, Tier 1 and Total capital ratios. This occurred because of the option CIBC chose in 2014 for the phase-in of the CVA capital charge. Beginning in Q1/19, the ratios are calculated by reference to the same level of RWA as the phase-in of the CVA capital charge has been completed.

**Corporate exposures**

All direct credit risk exposures to corporations, partnerships and proprietorships, and exposures guaranteed by those entities.

**Credit risk**

The risk of financial loss due to a borrower or counterparty failing to meet its obligations in accordance with contractual terms.

**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.

**Internal models approach (IMA) for market risk**

Models, which have been developed by CIBC and approved by OSFI, for the measurement of risk and regulatory capital in the trading portfolio for general market risk, debt specific risk, and equity specific risk.

**Internal ratings-based (IRB) approach for securitization exposures**

This approach comprises two calculation methods available for securitization exposures that require OSFI approval: Internal Ratings-Based (SEC-IRBA) approach is available to the banks approved to use the IRB approach for underlying exposures securitized and Internal Assessment Approach available for certain securitization exposures extended to ABCP programmes.

**Leverage exposure**

For the purposes of the leverage ratio, exposure is defined under the rules as on-balance sheet assets (unweighted) less Tier 1 capital regulatory adjustments plus derivative exposures, securities financing transaction exposures with a limited form of netting under certain conditions, and other off-balance sheet exposures (such as commitments, direct credit substitutes, forward asset purchases, standby/trade letters of credit and securitization exposures).

**Leverage ratio**

Defined as Tier 1 capital divided by Leverage Exposure determined in accordance with guidelines issued by OSFI, which are based on BCBS standards.

**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 EAD. LGD is generally based on through-the-cycle assumptions for regulatory capital purposes, and generally based on point-in-time assumptions reflecting forward-looking information for IFRS 9 expected credit loss purposes.

**Non-viability contingent capital (NVCC)**

Effective January 1, 2013, in order to qualify for inclusion in regulatory capital, all non-common Tier 1 and Tier 2 capital instruments must be capable of absorbing losses at the point of non-viability of a financial institution. This will ensure that investors in such instruments bear losses before taxpayers where the government determines that it is in the public interest to rescue a non-viable bank.

**Operational risk**

The risk of loss resulting from people, inadequate or failed internal processes, and systems or from external events.

**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. PD is generally based on through-the-cycle assumptions for regulatory capital purposes, and generally based on point-in-time assumptions reflecting forward-looking information for IFRS 9 expected credit loss purposes.

**Qualifying central counterparty (QCCP)**

An entity that is licensed to operate as a CCP and is permitted by the appropriate regulator or oversight body to operate as such with respect to the products offered by that CCP.

### Qualifying revolving retail

This exposure class includes credit cards, unsecured lines of credit and overdraft protection products extended to individuals. Under the standardized approach, these exposures would be included under "other retail".

### Real estate secured personal lending

This exposure class includes residential mortgages and home equity loans and lines of credit extended to individuals.

### Regulatory capital

Basel III regulatory capital, as defined by OSFI's Capital Adequacy Requirements Guideline, is comprised of Common Equity Tier 1 (CET1), Additional Tier 1 (AT1) and Tier 2 capital. CET1 capital includes common shares, retained earnings, AOCI (excluding AOCI relating to cash flow hedges and changes to fair value option liabilities attributable to changes in own credit risk) and qualifying instruments issued by a consolidated banking subsidiary to third parties, less regulatory adjustments for items such as goodwill and other intangible assets, deferred tax assets, net assets related to defined benefit pension plans, and certain investments. AT1 capital primarily includes NVCC preferred shares, qualifying instruments issued by a consolidated subsidiary to third parties, and non-qualifying innovative Tier 1 notes which are subject to phase-out rules for capital instruments. Tier 1 capital is comprised of CET1 plus AT1. Tier 2 capital includes NVCC subordinated indebtedness, non-qualifying subordinated indebtedness subject to phase-out rules for capital instruments, eligible collective allowance under the standardized approach, and qualifying instruments issued by a consolidated subsidiary to third parties. Total capital is comprised of Tier 1 capital plus Tier 2 capital. Under Basel III, qualifying regulatory capital instruments must be capable of absorbing loss at the point of non-viability of the financial institution; non-qualifying capital instruments are excluded from regulatory capital at a rate of 10% per annum commencing January 1, 2013 through to January 1, 2022.

### Retail portfolios

A category of exposures that primarily includes consumer, but also small business lending, where the primary basis of adjudication relies on credit scoring models.

### Resecuritization

A securitization exposure in which the risk associated with an underlying pool of exposures is tranching and at least one of the underlying exposures is a securitization exposure.

### Risk-weighted assets (RWA)

RWA consist of three components: (i) RWA for credit risk are calculated using the AIRB and standardized approaches. The AIRB RWA are calculated using PDs, LGDs, EADs, and in some cases maturity adjustment, while the standardized approach applies risk weighting factors specified in the OSFI guidelines to on- and off- balance sheet exposures; (ii) RWA for market risk in the trading portfolio are based on the internal models approved by OSFI with the exception of the RWA for traded securitization assets where we are using the methodology defined by OSFI; and (iii) RWA for operational risk relating to the risk of losses resulting from people, inadequate or failed internal processes, and systems or from external events are calculated under the AMA and standardized approaches. During the period beginning in Q3/14 to Q4/18, CET1 capital RWA, Tier 1 capital RWA, and total capital RWA, will differ due to the phase in of the CVA capital charge. Since the introduction of Basel II in 2008, OSFI has prescribed a capital floor requirement for institutions that use the AIRB approach for credit risk. The capital floor is determined by comparing a capital requirement calculated by reference to the Basel II standardized approach against the Basel III calculation, as specified by OSFI. Any shortfall in the Basel III capital requirement is added to RWA.

### Securitization

The process of selling assets (normally financial assets such as loans, leases, trade receivables, credit card receivables or mortgages) to trusts or other structured entities (SEs). A SE normally issues securities or other forms of interests to investors and/or the asset transferor, and the SE uses the proceeds of the issue of securities or other forms of interest to purchase the transferred assets. The SE will generally use the cash flows generated by the assets to meet the obligations under the securities or other interests issued by the SE, which may carry a number of different risk profiles.

### Sovereign exposures

All direct credit risk exposures to governments, central banks and certain public sector entities, and exposures guaranteed by those entities.

### Standardized approach for credit risk

Applied to exposures when there is not sufficient information to allow for the use of the AIRB approach for credit risk. Credit risk capital requirements are calculated based on a standardized set of risk weights as prescribed in the Basel Accord. The standardized risk weights are based on external credit assessments, where available, and other risk related factors, including export credit agencies, exposure asset class, collateral, etc.

### Standardized approach for operational risk

Capital is based on prescribed percentages that vary by business activity and is applied to the three-year average gross income.

### Standardized approach for securitization exposures

This approach comprises the calculation methods available for securitization exposures that do not require OSFI approval: Securitization External Ratings-Based (SEC-ERBA) and Securitization Standardized Approach (SEC-SA).

### Total loss absorbing capacity (TLAC)

Is defined as the sum of Total Capital and bail-in-eligible liabilities that have residual maturity greater than or equal to one year. Bail-in eligible liabilities include long-term (original maturity over 400 days), unsecured senior debt that is tradable and transferrable, and any preferred shares and subordinated debt that are not NVCC. Deposits, secured liabilities (for example, covered bonds), eligible financial contracts (for example derivatives) and most structured notes are excluded from the bail-in power.