



Supplementary Regulatory Capital Disclosure and Pillar 3 Report

For the period ended
October 31, 2018

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This document is unaudited and should be read in conjunction with our quarterly news release for Q4/18, 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. All relevant information in this document is prepared under International Financial Reporting Standards (IFRS) and all amounts are in millions of Canadian dollars, unless otherwise stated.

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REGULATORY CAPITAL AND RATIOS - BASEL III (ALL-IN BASIS ⁽¹⁾)

(\$ millions)

Row ⁽²⁾	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16		
	Cross-reference ⁽³⁾										
Common Equity Tier 1 (CET1) capital: instruments and reserves											
1	Directly issued qualifying common share capital plus related stock surplus	13,379	A+B	13,334	13,295	13,204	12,685	12,320	8,574	8,351	8,096
2	Retained earnings	18,537	C	18,051	17,412	16,701	16,101	15,535	15,011	14,483	13,584
3	Accumulated other comprehensive income (AOCI) (and other reserves)	777	D	746	403	(17)	452	167	1,083	698	790
5	Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)	118	E	118	113	106	109	107	114	108	113
6	Common Equity Tier 1 capital before regulatory adjustments	32,811		32,249	31,223	29,994	29,347	28,129	24,782	23,640	22,583
Common Equity Tier 1 capital: regulatory adjustments											
7	Prudential valuation adjustments	27	See footnote 4	55	50	60	62	63	60	67	69
8	Goodwill (net of related tax liabilities)	5,489	F+G+H	5,436	5,370	5,188	5,284	5,019	1,468	1,444	1,461
9	Other intangibles other than mortgage-servicing rights (net of related tax liabilities)	1,661	I+J+AL	1,649	1,654	1,660	1,654	1,531	1,304	1,277	1,258
10	Deferred tax assets excluding those arising from temporary differences (net of related tax liabilities)	38	K	19	5	6	18	24	71	66	70
11	Cash flow hedge reserve	(18)	L	10	-	39	33	27	46	38	23
12	Shortfall of allowances to expected losses ⁽⁵⁾	647	See footnote 4	625	625	631	474	447	242	301	283
14	Gain and losses due to changes in own credit risk on fair valued liabilities	41	M+AK	48	35	27	41	54	44	62	102
15	Defined benefit pension fund net assets (net of related tax liabilities)	284	N+O	496	259	268	160	300	191	287	156
16	Investments in own shares (if not already netted off paid-in capital on reported balance sheet)	1	See footnote 4	-	-	-	3	-	-	5	13
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	-	-	-	-	-	-	-	-
22	Amount exceeding the 15% threshold	-	R+S	-	-	-	-	-	-	-	-
23	of which: significant investments in the common stock of financials	-	T	-	-	-	-	-	-	-	-
25	of which: deferred tax assets arising from temporary differences	-		-	-	-	-	-	-	-	-
28	Total regulatory adjustments to Common Equity Tier 1	8,170		8,338	7,998	7,879	7,729	7,465	3,426	3,547	3,435
29	Common Equity Tier 1 capital (CET1)	24,641		23,911	23,225	22,115	21,618	20,664	21,356	20,093	19,148
Additional Tier 1 (AT1) capital: instruments											
30	Directly issued qualifying Additional Tier 1 instruments plus related stock surplus ⁽⁶⁾	2,250		2,250	2,248	2,246	1,797	1,796	1,000	1,000	1,000
31	of which: classified as equity under applicable accounting standards	2,250	U	2,250	2,248	2,246	1,797	1,796	1,000	1,000	1,000
33	Directly issued capital instruments subject to phase out from Additional Tier 1	1,003	V+see footnote 7	1,003	1,003	1,003	1,253	1,253	1,253	1,253	1,504
34	Additional Tier 1 Instruments (and CET1 instruments not in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1)	14	W	16	14	13	14	13	15	14	14
36	Additional Tier 1 capital before regulatory adjustments	3,267		3,269	3,265	3,262	3,064	3,062	2,268	2,267	2,518
Additional Tier 1 capital: regulatory adjustments											
41	Other deductions from Tier 1 capital as determined by OSFI	-		-	-	-	-	-	-	-	-
41b	of which: valuation adjustment for less liquid positions	-		-	-	-	-	-	-	-	-
43	Total regulatory adjustments to Additional Tier 1 capital	-		-	-	-	-	-	-	-	-
44	Additional Tier 1 capital (AT1)	3,267		3,269	3,265	3,262	3,064	3,062	2,268	2,267	2,518
45	Tier 1 capital (T1 = CET1 + AT1)	27,908		27,180	26,490	25,377	24,682	23,726	23,624	22,360	21,666
Tier 2 capital: instruments and provisions											
46	Directly issued qualifying Tier 2 instruments plus related stock surplus ⁽⁸⁾	3,430	X	3,390	3,407	1,925	1,961	1,961	1,982	1,975	2,001
47	Directly issued capital instruments subject to phase out from Tier 2	579	Y	586	1,188	1,182	1,204	1,197	1,279	1,287	1,323
48	Tier 2 instruments (and CET1 and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third parties (amount allowed in Tier 2)	20	Z	21	20	18	19	19	19	18	19
50	General allowances (Q4/17 and prior: Collective allowance under IAS 39)	293	AA+AB	291	280	269	263	250	73	70	74
51	Tier 2 capital before regulatory adjustments	4,322		4,288	4,895	3,394	3,447	3,427	3,353	3,350	3,417
57	Total regulatory adjustments to Tier 2 capital	-		-	-	-	-	-	-	-	-
58	Tier 2 capital (T2)	4,322		4,288	4,895	3,394	3,447	3,427	3,353	3,350	3,417
59	Total capital (TC = T1 + T2)	32,230		31,468	31,385	28,771	28,129	27,153	26,977	25,710	25,083
60	Total RWA	n/a		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
60a	Common Equity Tier 1 (CET1) Capital RWA ⁽⁹⁾	216,144		211,820	208,068	204,647	203,321	198,459	175,431	169,350	168,996
60b	Tier 1 Capital RWA ⁽⁹⁾	216,303		211,968	208,231	204,647	203,321	198,686	175,431	169,575	169,322
60c	Total Capital RWA ⁽⁹⁾	216,462		212,116	208,394	204,647	203,321	198,867	175,431	169,755	169,601

For footnotes, see next page.



REGULATORY CAPITAL AND RATIOS - BASEL III (ALL-IN BASIS ⁽¹⁾) (continued)

(\$ millions)

Row ⁽²⁾	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16
	Cross-reference ⁽³⁾								
Capital ratios									
61 Common Equity Tier 1 (as a percentage of RWAs)	11.4%	11.3%	11.2%	10.8%	10.6%	10.4%	12.2%	11.9%	11.3%
62 Tier 1 (as a percentage of RWAs)	12.9%	12.8%	12.7%	12.4%	12.1%	11.9%	13.5%	13.2%	12.8%
63 Total capital (as a percentage of RWAs)	14.9%	14.8%	15.1%	14.1%	13.8%	13.7%	15.4%	15.2%	14.8%
64 Buffer requirement (minimum CET1 requirement plus capital conservation buffer plus G-SIB buffer requirement plus D-SIB buffer requirement expressed as a percentage of RWAs)	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
65 of which: capital conservation buffer requirement	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
66 of which: institution specific countercyclical buffer requirement	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n/a
67a of which: D-SIB buffer requirement	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
68 Common Equity Tier 1 available to meet buffers (as percentage of RWAs)	11.4%	11.3%	11.2%	10.8%	10.6%	10.4%	12.2%	11.9%	11.3%
OSFI all-in target (minimum + capital conservation buffer + D-SIB surcharge (if applicable))⁽¹⁰⁾									
69 Common Equity Tier 1 all-in target ratio	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
70 Tier 1 capital all-in target ratio	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%
71 Total capital all-in target ratio	11.5%	11.5%	11.5%	11.5%	11.5%	11.5%	11.5%	11.5%	11.5%
Amounts below the thresholds for deduction (before risk-weighting)									
72 Non-significant investments in the capital of other financials	188	204	289	279	306	450	453	409	348
73 Significant investments in the common stock of financials	847	829	814	804	802	810	828	806	814
75 Deferred tax assets arising from temporary differences (net of related tax liabilities)	1,013	1,024	1,034	1,030	1,170	1,157	912	894	978
Applicable caps on the inclusion of allowances in Tier 2									
76 Allowances eligible for inclusion in Tier 2 in respect of exposures subject to standardized approach (prior to application of cap)	293	291	280	269	263	250	73	70	74
77 Cap on inclusion of allowances in Tier 2 under standardized approach	293	AA	291	280	269	263	250	73	74
78 Allowances eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings-based approach (prior to application of cap)	-	-	-	-	-	-	-	-	-
79 Cap on inclusion of allowances in Tier 2 under ratings-based approach	-	AB	-	-	-	-	-	-	-
Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2013 and 1 Jan 2022)									
80 Current cap on CET1 instruments subject to phase out arrangements	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
81 Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
82 Current cap on AT1 instruments subject to phase out arrangements	1,003	V+see footnote 7	1,003	1,003	1,003	1,253	1,253	1,253	1,504
83 Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	590	AH+see footnote 7	602	597	608	369	376	376	392
84 Current cap on T2 instruments subject to phase out arrangements	1,802	-	1,802	1,802	1,802	2,253	2,253	2,253	2,704
85 Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	-	-	-	-	-	-	-	-	-

- (1) All-in is defined by OSFI as capital calculated to include all of the regulatory adjustments that will be required by 2019, but retaining the phase-out rules for non-qualifying capital instruments. Including the application of the 1% D-SIB CET1 surcharge, but excluding the Domestic Stability Buffer of 1.5% (see footnote 10 below), OSFI's current targets, including all buffer requirements, for the CET1, Tier 1 and Total capital ratios are 8%, 9.5% and 11.5%, respectively.
 - (2) Per OSFI's "Public Capital Disclosure Requirements related to Basel III Pillar 3" advisory in accordance with Basel III all-in-basis calculations.
 - (3) Cross-referenced to the consolidated balance sheet, refer to pages 3 and 4.
 - (4) Not recorded on the consolidated balance sheet.
 - (5) Beginning in Q1/18, the allowance in the shortfall calculation is in accordance with IFRS 9. The allowance in prior periods was in accordance with International Accounting Standard (IAS) 39 and has not been restated. See external reporting changes discussed in "Notes to users" on page 1 of the Supplementary Financial Information for additional details.
 - (6) Comprises non-cumulative Class A Preferred Shares 39, 41, 43, and 45 (effective Q3/17) and 47 (effective Q1/18) which are treated as non-viability contingent capital (NVCC) in accordance with OSFI's capital adequacy guidelines.
 - (7) Comprises CIBC Tier 1 Notes - Series A and Series B due June 30, 2108 (together, the Tier 1 Notes). The adoption of IFRS 10 "Consolidated Financial Statements" required CIBC to deconsolidate CIBC Capital Trust, which resulted in the removal of Capital Trust securities issued by CIBC Capital Trust from the consolidated balance sheet and instead recognizing the senior deposit notes issued by CIBC to CIBC Capital Trust within Business and government deposits.
 - (8) Comprises Debentures due on October 28, 2024, January 26, 2026 and April 4, 2028 which are treated as NVCC in accordance with OSFI's capital adequacy guidelines.
 - (9) As a result of the option that CIBC chose for calculating the credit valuation adjustment (CVA) capital charge, the calculation of CET1, Tier 1 and Total Capital ratios is based on different RWAs, before any capital floor adjustment, beginning in Q3/14. The charge will be phased-in during 2014-2019 and relates to bilateral over-the-counter (OTC) derivatives included in credit risk RWA. Q1/18, Q4/17 and Q2/17 RWA included capital floor adjustments. See page 7 for further details.
 - (10) Excludes the 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.
 - (11) Synthetic positions not recorded on the consolidated balance sheet.
- n/a Not applicable.



RECONCILIATION OF CAPITAL (ALL-IN BASIS) TO CONSOLIDATED REGULATORY BALANCE SHEET ⁽¹⁾

(\$ millions)

	Q4/18				Cross reference to capital schedule ⁽³⁾
	Balance sheet as in report to shareholders	Insurance entities adjustment ⁽²⁾		Balance sheet as in the regulatory scope of consolidation	
		Deconsolidation	Equity accounting		
Assets					
Cash and non-interest-bearing deposits with banks	4,380	-	-	4,380	
Interest-bearing deposits with banks	13,311	-	-	13,311	
Securities	101,664	(251)	-	101,413	
Significant investments in capital of other financial institutions not exceeding regulatory thresholds				-	AF
Non-significant investments in capital of other financial institutions not exceeding regulatory thresholds				66	AG
Significant investments in capital of non-financial institutions				-	
Other securities				101,347	
Cash collateral on securities borrowed	5,488	-	-	5,488	
Securities purchased under resale agreements	43,450	-	-	43,450	
Loans	373,035	-	-	373,035	
Allowance for credit losses	(1,639)	-	-	(1,639)	
General allowance reflected in Tier 2 capital				(293)	AA
Excess in allowance over expected losses reflected in Tier 2 capital				-	AB
Allowances not reflected in regulatory capital				(1,346)	
Derivative instruments	21,431	-	-	21,431	
Customers' liability under acceptances	10,265	-	-	10,265	
Land, buildings and equipment	1,795	-	-	1,795	
Goodwill	5,564	-	-	5,564	F
Software and other intangible assets	1,945	-	-	1,945	I
Investments in equity-accounted associates and joint ventures	526	-	394	920	
Significant investments in capital of other financial institutions exceeding regulatory thresholds (10% of CET1)				-	P
Significant investments in capital of other financial institutions exceeding regulatory thresholds (15% basket of CET1)				-	R
Significant investments in capital of other financial institutions not exceeding regulatory thresholds				453	AD
Significant investments in capital of other financial institutions related to goodwill				10	G
Significant investments in capital of other financial institutions related to intangibles				3	AL
Significant investments in capital of non-financial institutions				38	
Investment in deconsolidated subsidiaries exceeding regulatory thresholds (10% of CET1)				-	Q
Investment in deconsolidated subsidiaries exceeding regulatory thresholds (15% basket of CET1)				-	S
Investment in deconsolidated subsidiaries not exceeding regulatory thresholds				394	AE
Non-significant investments in capital of other financial institutions not exceeding regulatory thresholds				14	AJ
Non-significant investments in capital of non-financial institutions				8	
Deferred tax assets	601	-	-	601	
Deferred tax assets excluding those arising from temporary differences				38	K
Deferred tax assets arising from temporary differences exceeding regulatory thresholds (15% basket of CET1)				-	T
Deferred tax assets arising from temporary differences not exceeding regulatory thresholds				1,013	AC
Deferred tax liabilities related to goodwill				(85)	H
Deferred tax liabilities related to software and other intangible assets				(287)	J
Deferred tax liabilities related to defined benefit pension fund net assets				(78)	O
Other assets					
Defined benefit pension fund net assets	362	-	-	362	N
Other	14,921	(105)	-	14,816	
Non-significant investments in capital of other financial institutions not exceeding regulatory thresholds				5	AI
Other				14,811	
Total assets	597,099	(356)	394	597,137	

For footnotes, see next page.



RECONCILIATION OF CAPITAL (ALL-IN BASIS) TO CONSOLIDATED REGULATORY BALANCE SHEET ⁽¹⁾ (continued)

(\$ millions)

Liabilities

	Q4/18			Balance sheet as in the regulatory scope of consolidation	Of which	Cross reference to capital schedule ⁽³⁾
	Balance sheet as in report to shareholders	Insurance entities adjustment ⁽²⁾ Deconsolidation	Equity accounting			
Deposits	461,015	-	-	461,015		
Obligations related to securities sold short	13,782	-	-	13,782		
Cash collateral on securities lent	2,731	-	-	2,731		
Obligations related to securities sold under repurchase agreements	30,840	-	-	30,840		
Derivative instruments	20,973	-	-	20,973		
Acceptances	10,296	-	-	10,296		
Deferred tax liabilities	43	-	-	43		
Other liabilities	18,223	300	(262)	18,261		
Subordinated indebtedness	4,080	-	-	4,080		
Subordinated indebtedness allowed for inclusion in Tier 2 capital					3,430	X
Subordinated indebtedness allowed for inclusion in Tier 2 capital subject to phase out					579	Y
Regulatory capital amortization of maturing subordinated indebtedness not allowed for Tier 2 capital					-	
Subordinated indebtedness excluded from Tier 2 capital due to cap					-	
Subordinated indebtedness not allowed for Tier 2 capital					71	
Total liabilities	561,983	300	(262)	562,021		
Equity						
Preferred shares	2,250	-	-	2,250		
Preferred shares allowed for inclusion into additional Tier 1 capital					2,250	U
Preferred shares allowed for inclusion into additional Tier 1 capital subject to phase out					-	V
Preferred shares excluded from additional Tier 1 capital due to cap					-	AH
Common shares	13,243	-	-	13,243		
Common shares – treasury positions					-	
Common shares					13,243	A
Contributed surplus	136	-	-	136		B
Retained earnings	18,537	(658)	658	18,537		C
Gains and losses due to changes in own credit risk on fair valued liabilities					53	M
Other retained earnings					18,484	
AOCI	777	2	(2)	777		D
Cash flow hedges					(18)	L
Net fair value gains (losses) arising from changes in institution's own credit risk					(12)	AK
Other					807	
Non-controlling interests	173	-	-	173		
Portion allowed for inclusion into CET1					118	E
Portion allowed for inclusion into additional Tier 1 capital					14	W
Portion allowed for inclusion into Tier 2 capital					20	Z
Portion not allowed for regulatory capital					21	
Total equity	35,116	(656)	656	35,116		
Total liabilities and equity	597,099	(356)	394	597,137		

(1) Per OSFI's "Public Capital Disclosure Requirements related to Basel III Pillar 3" advisory.

(2) Comprises our insurance subsidiaries: CIBC Reinsurance Company Limited (CIBC Re), and CIBC Life Insurance Company Limited (CIBC Life), which are excluded from the regulatory scope of consolidation. CIBC Re provides Life and Health reinsurance to Canadian insurance and international reinsurance companies. CIBC Re is also an active participant in the North American retrocession market. 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 October 31, 2018, CIBC Re had \$212 million in assets, \$(237) million in liabilities, and \$449 million in equity, and CIBC Life had \$144 million in assets, \$(63) million in liabilities, and \$207 million in equity.

(3) Refer to pages 1 and 2.



CHANGES IN REGULATORY CAPITAL - BASEL III (ALL-IN BASIS ⁽¹⁾)

(\$ millions)

	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16
Common Equity Tier 1 (CET1) capital									
Opening amount	23,911	23,225	22,115	21,618	20,664	21,356	20,093	19,148	18,345
Issue of common shares pursuant to the acquisition of The PrivateBank	-	-	-	194	-	3,443	-	-	-
Issue of common shares pursuant to the acquisition of Geneva Advisors	-	-	-	-	126	-	-	-	-
Issue of common shares pursuant to the acquisition of Wellington Financial	-	-	-	47	-	-	-	-	-
Shares issued in lieu of cash dividends (add back)	48	46	47	196	201	187	191	170	164
Other issue of common shares	46	48	42	82	40	37	40	91	48
Redeemed capital	-	-	-	-	-	-	-	-	-
Purchase of common shares for cancellation	(52)	(52)	-	-	-	-	-	-	-
Premium on purchase of common shares for cancellation	(163)	(150)	-	-	-	-	-	-	-
Gross dividends (deduction)	(626)	(612)	(615)	(592)	(593)	(560)	(518)	(502)	(488)
Profit for the quarter (attributable to shareholders of the parent company)	1,266	1,365	1,313	1,323	1,159	1,093	1,045	1,402	927
Removal of own credit spread (net of tax)	7	(13)	(8)	14	13	(10)	18	40	(1)
Change in AOCI balances included in regulatory capital									
Currency translation differences	181	151	536	(582)	431	(1,057)	503	(253)	223
Securities measured at fair value through other comprehensive income (FVOCI) (Q4/17 and prior: Available-for-sale investments)	(19)	(45)	(73)	(54)	(24)	(42)	35	(70)	9
Cash flow hedges	(28)	10	(39)	6	6	(19)	8	15	(3)
Post-employment defined benefit plans	(95)	219	(5)	107	(125)	203	(158)	219	55
Goodwill and other intangible assets (deduction, net of related tax liabilities)	(65)	(61)	(176)	90	(388)	(3,778)	(51)	(2)	(56)
Shortfall of allowance to expected losses	(22)	-	6	(157)	(27)	(205)	59	(18)	(27)
Other, including regulatory adjustments and transitional arrangements									
Deferred tax assets that rely on future profitability (excluding those arising from temporary differences)	(19)	(14)	1	12	6	47	(5)	4	(14)
Defined benefit pension fund net assets	212	(237)	9	(108)	140	(109)	96	(131)	(41)
Significant investments in financial institutions (amount above 10% threshold)	-	-	-	-	-	-	-	-	-
Amount exceeding 15% threshold	-	-	-	-	-	-	-	-	-
Prudential valuation adjustments	28	(5)	10	2	1	(3)	7	2	(1)
Other ⁽²⁾	31	36	62	(83)	(12)	81	(7)	(22)	8
Closing amount	24,641	23,911	23,225	22,115	21,618	20,664	21,356	20,093	19,148
Additional Tier 1 (AT1) capital									
Opening amount	3,269	3,265	3,262	3,064	3,062	2,268	2,267	2,518	2,517
AT1 eligible capital issues	-	-	-	450	-	800	-	-	-
Redeemed capital	-	-	-	-	-	-	-	-	-
Impact of the cap on inclusion for instruments subject to phase out	-	-	-	(251)	-	-	-	(251)	-
Other, including regulatory adjustments and transitional arrangements	(2)	4	3	(1)	2	(6)	1	-	1
Closing amount	3,267	3,269	3,265	3,262	3,064	3,062	2,268	2,267	2,518
Total Tier 1 capital	27,908	27,180	26,490	25,377	24,682	23,726	23,624	22,360	21,666
Tier 2 capital									
Opening amount	4,288	4,895	3,394	3,447	3,427	3,353	3,350	3,417	3,449
New Tier 2 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	(7)	1	(53)	20	74	3	(67)	(32)
Closing amount	4,322	4,288	4,895	3,394	3,447	3,427	3,353	3,350	3,417
Total capital	32,230	31,468	31,385	28,771	28,129	27,153	26,977	25,710	25,083

(1) All-in is defined by OSFI as capital calculated to include all of the regulatory adjustments that will be required by 2019, but retaining the phase-out rules for non-qualifying capital instruments.

(2) Includes the net impact on retained earnings and AOCI as at November 1, 2017 from the adoption of IFRS 9. See external reporting changes discussed in "Notes to users" on page 1 of the Supplementary Financial Information for additional details.

BASEL III LEVERAGE RATIO

(\$ millions)

Row ^{(1), (2)}	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16
On-balance sheet exposures									
1 On-balance sheet items (excluding derivatives, securities financing transactions (SFTs) and grandfathered securitization exposures, but including collateral)	526,651	522,696	514,986	500,027	493,003	486,823	456,527	442,244	437,179
2 Asset amounts deducted in determining Basel III Tier 1 capital	(8,130)	(8,291)	(7,964)	(7,852)	(7,690)	(7,411)	(3,381)	(3,483)	(3,333)
3 Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 and 2)	518,521	514,405	507,022	492,175	485,313	479,412	453,146	438,761	433,846
Derivative exposures									
4 Replacement cost associated with all derivative transactions (i.e. net of eligible cash variation margin)	6,074	5,973	5,992	6,734	5,339	5,066	6,452	4,981	6,418
5 Add-on amounts for potential future exposure (PFE) associated with all derivative transactions	21,346	19,922	19,889	18,387	17,224	15,638	16,567	14,549	14,406
6 Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework	-	-	-	-	-	-	-	-	-
7 (Deductions of receivables assets for cash variation margin provided in derivative transactions)	(4,944)	(4,928)	(3,810)	(5,502)	(4,016)	(4,585)	(4,990)	(5,408)	(5,667)
8 (Exempted central counterparty (CCP)-leg of client cleared trade exposures)	-	-	-	-	-	-	-	-	-
9 Adjusted effective notional amount of written credit derivatives	211	13	141	467	389	125	-	-	216
10 (Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(211)	(13)	(141)	(467)	(389)	-	-	-	(22)
11 Total derivatives exposures (sum of lines 4 to 10)	22,476	20,967	22,071	19,619	18,547	16,244	18,029	14,122	15,351
Securities financing transaction exposures									
12 Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	48,938	49,596	49,881	55,260	45,418	45,072	43,842	44,556	33,810
13 (Netted amounts of cash payables and cash receivables of gross SFT assets)	(4,029)	(3,107)	(4,065)	(4,501)	(2,392)	-	-	-	-
14 Counterparty credit risk (CCR) exposure for SFTs	2,214	1,942	2,773	2,556	1,903	1,989	2,013	1,682	1,772
15 Agent transaction exposures	-	-	-	-	-	-	-	-	-
16 Total securities financing transaction exposures (sum of lines 12 to 15)	47,123	48,431	48,589	53,315	44,929	47,061	45,855	46,238	35,582
Other off-balance sheet exposures									
17 Off-balance sheet exposure at gross notional amount	248,850	246,660	241,179	236,408	233,667	231,083	218,975	211,165	212,888
18 (Adjustments for conversion to credit equivalent amounts)	(183,024)	(181,294)	(177,554)	(174,911)	(172,103)	(171,486)	(163,901)	(154,456)	(152,187)
19 Off-balance sheet items (sum of lines 17 and 18)	65,826	65,366	63,625	61,497	61,564	59,597	55,074	56,709	60,701
20 Tier 1 capital	27,908	27,180	26,490	25,377	24,682	23,726	23,624	22,360	21,666
21 Total exposures (sum of lines 3, 11, 16 and 19)	653,946	649,169	641,307	626,606	610,353	602,314	572,104	555,830	545,480
22 Basel III leverage ratio	4.3%	4.2%	4.1%	4.0%	4.0%	3.9%	4.1%	4.0%	4.0%

SUMMARY COMPARISON OF ACCOUNTING ASSETS VS. LEVERAGE RATIO EXPOSURE MEASURE

(\$ millions)

Row ^{(1), (2)}	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16
1 Total consolidated assets as per published financial statements	597,099	595,025	590,537	586,927	565,264	560,912	528,591	513,294	501,357
2 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	38	37	27	67	80	80	120	136	129
3 Adjustment for fiduciary assets recognized on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure	-	-	-	-	-	-	-	-	-
4 Adjustment for derivative financial instruments	1,046	(1,036)	(1,868)	(9,684)	(5,796)	(10,126)	(7,583)	(9,775)	(12,412)
5 Adjustment for securities financing transactions (i.e. repos and similar secured lending)	(1,815)	(1,165)	(1,292)	(1,945)	(489)	1,989	2,013	1,682	1,772
6 Adjustment for off-balance sheet items (i.e. credit equivalent amounts of off-balance sheet exposures)	65,826	65,366	63,625	61,497	61,564	59,597	55,074	56,709	60,701
7 Other adjustments	(8,248)	(9,058)	(9,722)	(10,256)	(10,270)	(10,138)	(6,111)	(6,216)	(6,067)
8 Leverage ratio exposure	653,946	649,169	641,307	626,606	610,353	602,314	572,104	555,830	545,480

(1) Per OSFI's "Public Disclosure Requirements related to Basel III Leverage Ratio" published in December 2017.

(2) To enhance comparability, the all-in information for Q4/17 and prior quarters has been re-arranged to align with the row numbers in OSFI's "Public Disclosure Requirements related to Basel III Leverage Ratio" published in December 2017. The information for Q4/17 and prior quarters has not changed.



CREDIT EXPOSURE (EAD ⁽¹⁾)

(\$ millions)

	Q4/18		Q3/18		Q2/18		Q1/18		Q4/17		Q3/17		Q2/17		Q1/17	
	AIRB approach ⁽²⁾	Standardized approach	AIRB approach	Standardized approach	AIRB approach ⁽²⁾	Standardized approach	AIRB approach ⁽²⁾	Standardized approach	AIRB approach ⁽²⁾	Standardized approach	AIRB approach ⁽²⁾	Standardized approach	AIRB approach ⁽²⁾	Standardized approach	AIRB approach ⁽²⁾	Standardized approach
Business and government portfolios																
Corporate																
Drawn	85,899	27,018	84,468	25,968	82,777	24,756	78,623	23,150	78,312	23,390	76,424	22,316	74,544	3,362	71,977	3,204
Undrawn commitments	43,180	4,885	42,096	4,816	40,825	4,404	40,340	3,996	39,078	4,085	38,629	3,693	39,935	147	37,667	135
Repo-style transactions	91,970	2	96,429	8	90,817	11	91,235	28	76,899	39	75,016	28	72,087	38	65,326	15
Other off-balance sheet	14,496	827	15,099	811	16,531	738	14,072	703	13,484	697	13,848	675	15,688	216	15,706	235
OTC derivatives	9,440	35	9,122	37	9,759	39	9,043	46	8,990	64	8,111	75	9,885	-	8,245	-
	244,985	32,767	247,214	31,640	240,709	29,948	233,313	27,923	216,763	28,275	212,028	26,787	212,139	3,763	198,921	3,589
Sovereign																
Drawn	51,703	12,047	54,102	11,660	50,531	11,494	47,049	11,108	41,439	11,827	46,090	11,061	42,224	5,026	41,810	4,759
Undrawn commitments	6,576	-	6,395	-	6,484	-	6,168	-	5,642	-	5,733	-	5,547	-	4,722	-
Repo-style transactions	16,929	-	17,320	-	14,497	-	15,102	-	14,374	-	12,269	-	13,268	-	10,439	-
Other off-balance sheet	753	-	534	-	535	-	536	-	533	-	554	-	682	-	693	-
OTC derivatives	3,454	-	2,553	-	2,801	-	2,497	-	2,660	-	2,487	-	3,677	-	2,951	-
	79,415	12,047	80,904	11,660	74,848	11,494	71,352	11,108	64,648	11,827	67,133	11,061	65,398	5,026	60,615	4,759
Banks																
Drawn	13,697	1,868	13,393	2,000	13,186	1,923	11,446	1,821	10,422	2,021	10,276	1,854	10,326	1,776	10,150	1,689
Undrawn commitments	1,041	5	1,037	5	980	6	996	6	840	8	984	9	1,040	-	1,089	-
Repo-style transactions	28,860	-	24,093	-	29,446	-	26,739	-	21,469	-	22,459	-	22,296	-	24,008	-
Other off-balance sheet	65,253	-	67,347	-	66,862	-	63,491	-	64,176	-	62,155	-	64,972	-	61,464	-
OTC derivatives	8,727	286	8,657	278	8,182	242	8,165	222	7,527	232	6,350	233	7,603	219	6,053	160
	117,578	2,159	114,527	2,283	118,656	2,171	110,837	2,049	104,434	2,261	102,224	2,096	106,237	1,995	102,764	1,849
Gross business and government portfolios	441,978	46,973	442,645	45,583	434,213	43,613	415,502	41,080	385,845	42,363	381,385	39,944	383,774	10,784	362,300	10,197
Less: collateral held for repo-style transactions	125,368	-	125,769	-	122,114	-	118,964	-	101,315	-	98,861	-	95,043	-	88,596	-
Net business and government portfolios	316,610	46,973	316,876	45,583	312,099	43,613	296,538	41,080	284,530	42,363	282,524	39,944	288,731	10,784	273,704	10,197
Retail portfolios																
Real estate secured personal lending																
Drawn	224,501	3,743	225,107	3,551	225,115	3,423	224,655	3,200	223,291	3,423	219,304	3,284	211,790	2,696	206,740	2,556
Undrawn commitments	19,572	2	19,962	3	19,978	3	18,900	3	18,922	3	19,967	4	19,543	-	17,926	-
	244,073	3,745	245,069	3,554	245,093	3,426	243,555	3,203	242,213	3,426	239,271	3,288	231,333	2,696	224,666	2,556
Qualifying revolving retail																
Drawn	22,469	-	22,337	-	22,245	-	21,941	-	21,982	-	21,922	-	21,578	-	21,504	-
Undrawn commitments	51,836	-	50,762	-	49,812	-	49,860	-	49,140	-	46,383	-	46,623	-	48,231	-
Other off-balance sheet	277	-	273	-	311	-	240	-	293	-	311	-	302	-	258	-
	74,582	-	73,372	-	72,368	-	72,041	-	71,415	-	68,616	-	68,503	-	69,993	-
Other retail																
Drawn	12,158	1,239	11,828	1,144	11,558	1,138	11,047	1,081	10,755	1,158	10,466	1,080	10,117	851	9,762	797
Undrawn commitments	2,546	26	2,487	26	2,448	28	2,430	27	2,396	28	2,142	30	2,088	27	2,073	25
Other off-balance sheet	9	-	29	-	31	-	36	-	37	-	33	-	34	-	36	-
	14,713	1,265	14,344	1,170	14,037	1,166	13,513	1,108	13,188	1,186	12,641	1,110	12,239	878	11,871	822
Total retail portfolios	333,368	5,010	332,785	4,724	331,498	4,592	329,109	4,311	326,816	4,612	320,528	4,398	312,075	3,574	306,530	3,378
Securitization exposures ⁽³⁾	13,661	-	14,054	-	14,436	-	13,884	-	14,174	-	13,350	-	12,546	-	13,001	-
Gross credit exposure	789,007	51,983	789,484	50,307	780,147	48,205	758,495	45,391	726,835	46,975	715,263	44,342	708,395	14,358	681,831	13,575
Less: collateral held for repo-style transactions	125,368	-	125,769	-	122,114	-	118,964	-	101,315	-	98,861	-	95,043	-	88,596	-
Net credit exposure ⁽⁴⁾	663,639	51,983	663,715	50,307	658,033	48,205	639,531	45,391	625,520	46,975	616,402	44,342	613,352	14,358	593,235	13,575

(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) Under IRB approach.

(4) Excludes exposures arising from derivative and repo-style transactions which are cleared through qualified central counterparties (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 ⁽¹⁾

(\$ millions)

	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16
Business and government									
Canada									
Drawn	100,788	95,072	91,465	85,135	80,338	79,063	75,259	72,212	75,116
Undrawn commitments	37,989	37,449	37,189	36,469	34,823	34,791	36,021	33,465	32,082
Repo-style transactions	7,364	6,582	7,846	8,278	6,962	6,730	8,244	7,748	7,497
Other off-balance sheet	57,217	59,687	58,302	54,903	52,371	51,675	55,082	54,291	54,925
OTC derivatives	10,484	9,882	9,300	8,118	9,133	7,625	11,394	7,973	8,887
	213,842	208,672	204,102	192,903	183,627	179,884	186,000	175,689	178,507
United States									
Drawn	35,190	41,594	41,347	38,552	36,261	41,524	40,900	39,201	38,792
Undrawn commitments	8,992	8,413	7,639	7,562	7,417	7,596	7,403	7,360	7,923
Repo-style transactions	2,961	3,521	3,160	3,138	2,790	2,430	2,299	2,253	1,675
Other off-balance sheet	14,570	16,190	16,749	16,962	19,358	19,971	18,819	19,294	21,077
OTC derivatives	6,198	5,919	6,325	5,926	4,754	4,078	4,364	4,055	3,885
	67,911	75,637	75,220	72,140	70,580	75,599	73,785	72,163	73,352
Europe									
Drawn	6,278	6,217	5,325	4,570	4,683	3,805	3,623	4,189	5,244
Undrawn commitments	2,272	2,296	2,138	2,198	2,133	1,946	2,085	1,791	1,725
Repo-style transactions	1,014	906	932	1,889	1,035	1,166	1,232	781	460
Other off-balance sheet	8,175	6,580	8,295	5,483	5,900	4,376	6,892	3,715	4,717
OTC derivatives	3,516	3,169	3,562	3,449	3,306	3,282	3,502	3,427	3,687
	21,255	19,168	20,252	17,589	17,057	14,575	17,334	13,903	15,833
Other countries									
Drawn	9,043	9,080	8,357	8,861	8,891	8,398	7,312	8,335	8,425
Undrawn commitments	1,544	1,370	1,323	1,275	1,187	1,013	1,013	862	796
Repo-style transactions	1,052	1,064	708	807	640	557	833	395	489
Other off-balance sheet	540	523	582	751	564	535	549	563	491
OTC derivatives	1,423	1,362	1,555	2,212	1,984	1,963	1,905	1,794	2,128
	13,602	13,399	12,525	13,906	13,266	12,466	11,612	11,949	12,329
	316,610	316,876	312,099	296,538	284,530	282,524	288,731	273,704	280,021

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

CREDIT EXPOSURE - MATURITY PROFILE ⁽¹⁾

(\$ millions)	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16
Business and government portfolios									
Corporate									
Less than 1 year ⁽²⁾	64,031	63,506	64,337	61,810	57,008	56,711	60,057	56,518	57,633
1 - 3 years	53,240	53,430	52,742	52,309	50,953	50,325	50,961	47,897	46,676
3 - 5 years	41,327	39,054	37,994	34,340	36,704	34,676	34,822	34,003	36,411
Over 5 years	1,599	1,793	1,723	1,714	1,952	1,818	2,169	1,957	2,108
	160,197	157,783	156,796	150,173	146,617	143,530	148,009	140,375	142,828
Sovereign									
Less than 1 year ⁽²⁾	14,672	17,429	14,694	15,110	12,181	18,998	14,516	15,532	15,277
1 - 3 years	17,739	20,028	21,222	20,506	20,091	18,926	19,695	17,024	16,886
3 - 5 years	29,981	26,314	24,368	21,070	17,774	16,496	16,883	16,819	20,131
Over 5 years	1,283	1,160	1,349	1,087	1,322	1,213	1,871	1,344	1,504
	63,675	64,931	61,633	57,773	51,368	55,633	52,965	50,719	53,798
Banks									
Less than 1 year ⁽²⁾	75,868	77,489	77,543	74,797	72,800	70,511	72,948	68,075	69,199
1 - 3 years	13,518	13,637	12,688	10,992	11,227	10,773	12,768	10,212	9,042
3 - 5 years	2,800	2,337	2,534	2,229	1,844	1,611	1,573	4,008	4,627
Over 5 years	552	699	905	574	674	466	468	315	527
	92,738	94,162	93,670	88,592	86,545	83,361	87,757	82,610	83,395
Total business and government portfolios	316,610	316,876	312,099	296,538	284,530	282,524	288,731	273,704	280,021
Retail portfolios									
Real estate and secured personal lending									
Less than 1 year ⁽²⁾	82,713	82,326	83,307	80,217	77,712	75,496	70,478	68,450	69,027
1 - 3 years	103,552	102,426	100,985	101,537	100,461	98,288	93,231	84,631	78,550
3 - 5 years	55,006	57,981	59,151	60,735	63,138	64,414	66,324	70,175	70,880
Over 5 years	2,802	2,336	1,650	1,066	902	1,073	1,300	1,410	1,498
	244,073	245,069	245,093	243,555	242,213	239,271	231,333	224,666	219,955
Qualifying revolving retail									
Less than 1 year ⁽²⁾	74,582	73,372	72,368	72,041	71,415	68,616	68,503	69,993	69,056
	74,582	73,372	72,368	72,041	71,415	68,616	68,503	69,993	69,056
Other retail									
Less than 1 year ⁽²⁾	12,403	12,416	12,363	12,116	12,036	11,754	11,501	11,274	11,242
1 - 3 years	212	186	183	209	169	174	186	185	180
3 - 5 years	703	552	448	354	295	214	176	148	130
Over 5 years	1,395	1,190	1,043	834	688	499	376	264	177
	14,713	14,344	14,037	13,513	13,188	12,641	12,239	11,871	11,729
Total retail portfolios	333,368	332,785	331,498	329,109	326,816	320,528	312,075	306,530	300,740
Total credit exposure	649,978	649,661	643,597	625,647	611,346	603,052	600,806	580,234	580,761

(1) Excludes securitization exposures.

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

CREDIT RISK ASSOCIATED WITH DERIVATIVES

(\$ millions)

	Q4/18			Credit equivalent amount ⁽¹⁾	Q4/18	Q3/18	Q2/18	Q1/18	Q4/17	Q3/17	Q2/17	Q1/17	Q4/16	
	Current replacement cost				Risk-weighted amount									
	Trading	ALM	Total											
Interest rate derivatives														
Over-the-counter														
Forward rate agreements	113	-	113	39	2	1	2	1	3	1	2	6	2	
Swap contracts	4,603	773	5,376	5,359	539	544	542	563	653	693	759	741	915	
Purchased options	92	11	103	20	8	12	11	16	22	17	20	14	13	
	4,808	784	5,592	5,418	549	557	555	580	678	711	781	761	930	
Exchange-traded	1	-	1	170	5	3	3	1	2	2	2	1	2	
Total interest rate derivatives	4,809	784	5,593	5,588	554	560	558	581	680	713	783	762	932	
Foreign exchange derivatives														
Over-the-counter														
Forward contracts	2,916	117	3,033	3,793	1,017	892	976	1,061	938	970	869	839	900	
Swap contracts	4,825	1,205	6,030	4,528	886	928	861	834	847	784	775	653	673	
Purchased options	240	-	240	259	83	68	68	84	81	107	126	104	123	
	7,981	1,322	9,303	8,580	1,986	1,888	1,905	1,979	1,866	1,861	1,770	1,596	1,696	
Credit derivatives														
Over-the-counter														
Credit default swap contracts - protection purchased	115	-	115	46	9	10	7	8	10	7	4	4	7	
Credit default swap contracts - protection sold	3	-	3	3	-	-	-	-	-	-	-	-	-	
	118	-	118	49	9	10	7	8	10	7	4	4	7	
Equity derivatives														
Over-the-counter	1,951	7	1,958	2,259	535	421	504	498	520	479	540	445	379	
Exchange-traded	1,659	-	1,659	4,131	116	119	110	101	84	75	70	44	49	
	3,610	7	3,617	6,390	651	540	614	599	604	554	610	489	428	
Precious metal derivatives														
Over-the-counter	63	-	63	62	23	19	21	22	19	15	20	28	17	
Exchange-traded	143	-	143	17	1	1	1	1	1	1	1	1	-	
	206	-	206	79	24	20	22	23	20	16	21	29	17	
Other commodity derivatives														
Over-the-counter	2,527	-	2,527	4,046	1,523	1,306	1,388	1,155	902	730	1,054	991	1,025	
Exchange-traded	67	-	67	1,480	59	58	50	50	40	33	38	37	39	
	2,594	-	2,594	5,526	1,582	1,364	1,438	1,205	942	763	1,092	1,028	1,064	
Non-trade exposure related to central counterparties					224	208	210	167	176	145	153	155	286	
CET1 CVA capital charge					4,236	3,956	4,346	3,798	3,498	3,264	3,655	3,247	2,977	
Total derivatives before netting	19,318	2,113	21,431	26,212	9,266	8,546	9,100	8,360	7,796	7,323	8,088	7,310	7,407	
Less: effect of netting ⁽²⁾			(11,789)											
Total derivatives			9,642	26,212	9,266	8,546	9,100	8,360	7,796	7,323	8,088	7,310	7,407	

(1) Sum of current replacement cost and potential future exposure, adjusted for the master netting agreements and the impact of collateral amounting to \$5,036 million (Q3/18: \$4,826 million). The collateral comprises cash of \$3,961 million (Q3/18: \$4,217 million) and government securities of \$1,075 million (Q3/18: \$609 million). Of the collateral, \$5,020 million (Q3/18: \$4,794 million) relates to eligible financial collateral for AIRB exposures that is reflected in the loss given default risk variable used in the determination of risk-weighted assets.

(2) Comprises amounts subject to set off under enforceable netting agreements, such as International Swaps and Derivatives Association agreements, derivative exchange or clearing counterparty agreements, global master repurchase agreements, and global master securities lending agreements. Under such arrangements, all outstanding transactions governed by the relevant agreement can be offset if an event of default or other predetermined event occurs.

AIRB CREDIT RISK EXPOSURE - LOSS EXPERIENCE

	Q4/18		Q3/18		Q2/18		Q1/18	
	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾
Business and government portfolios								
Corporate	0.49	0.05	0.50	0.05	0.58	0.05	0.62	0.05
Sovereign	0.01	-	0.01	-	0.01	-	0.01	-
Banks	0.12	-	0.10	-	0.13	-	0.15	-
Retail portfolios								
Real estate secured personal lending	0.09	0.01	0.09	0.01	0.09	0.01	0.09	0.01
Qualifying revolving retail	3.83	2.80	3.70	2.78	3.77	2.80	4.05	2.81
Other retail	2.17	0.80	2.35	0.82	2.40	0.88	2.48	0.94

	Q4/17		Q3/17		Q2/17		Q1/17	
	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾	Expected loss rate % ⁽¹⁾	Actual loss rate % ⁽¹⁾
Business and government portfolios								
Corporate	0.62	0.05	0.62	0.06	0.62	0.11	0.67	0.24
Sovereign	0.01	-	0.01	-	0.02	-	0.01	-
Banks	0.12	-	0.17	-	0.15	-	0.12	-
Retail portfolios								
Real estate secured personal lending	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01
Qualifying revolving retail	4.03	2.88	4.02	2.96	4.01	3.05	3.97	3.05
Other retail	2.44	0.96	2.44	0.99	2.46	1.02	2.41	1.06

(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.

AIRB CREDIT RISK EXPOSURE - BACK-TESTING ⁽¹⁾

	Q4/18						Q3/18					
	Average estimated PD %	Actual default rate % ⁽²⁾	Average estimated LGD %	Actual LGD %	Estimated EAD %	Actual EAD %	Average estimated PD %	Actual default rate % ⁽²⁾	Average estimated LGD %	Actual LGD %	Estimated EAD %	Actual EAD %
Business and government portfolios ⁽³⁾												
Corporate	2.79	0.35	32.58	28.49	77.91	73.83	2.94	0.47	31.80	29.10	74.49	62.87
Sovereign	1.26	0.13	-	-	92.63	59.59	0.68	-	97.00	100.00	67.15	n/a
Banks	0.38	-	n/a	n/a	88.36	n/a	1.87	-	n/a	n/a	68.93	n/a
Retail portfolios ⁽⁴⁾												
Real estate secured personal lending												
Uninsured residential mortgages and personal loans	0.48	0.40	21.17	7.64	n/a	n/a	0.49	0.40	21.24	11.35	n/a	n/a
Insured residential mortgages	0.57	0.55	n/a	n/a	n/a	n/a	0.58	0.56	n/a	n/a	n/a	n/a
Home equity line of credit	0.21	0.19	46.06	10.45	95.49	91.33	0.21	0.18	41.94	11.50	93.66	88.19
Qualifying revolving retail	1.33	1.10	90.88	87.48	97.99	90.22	1.33	1.12	91.21	87.60	102.88	95.74
Other retail	2.26	1.75	82.51	68.18	104.48	100.46	2.19	1.76	82.27	75.33	104.66	95.11
Business and government portfolios ⁽³⁾												
Corporate	2.97	0.46	33.05	27.29	74.80	58.38	3.15	0.43	33.30	19.20	74.45	77.20
Sovereign	0.66	-	97.00	100.00	68.05	n/a	0.71	-	97.00	100.00	69.73	n/a
Banks	1.47	-	n/a	n/a	66.97	n/a	1.60	-	n/a	n/a	68.60	n/a
Retail portfolios ⁽⁴⁾												
Real estate secured personal lending												
Uninsured residential mortgages and personal loans	0.61	0.44	20.75	7.78	n/a	n/a	0.63	0.46	21.27	10.39	n/a	n/a
Insured residential mortgages	0.61	0.56	n/a	n/a	n/a	n/a	0.62	0.58	n/a	n/a	n/a	n/a
Home equity line of credit	0.21	0.19	40.52	7.92	94.42	92.18	0.21	0.19	38.93	16.81	94.21	89.24
Qualifying revolving retail	1.32	1.14	91.20	86.99	102.49	93.12	1.28	1.13	89.12	88.31	102.64	95.30
Other retail	2.26	1.80	81.91	75.92	95.40	99.06	2.40	1.83	81.64	78.57	97.35	97.30

(1) There are several key differences between Basel and IFRS 9 which could lead to significantly different estimates for PDs and LGDs. 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 Note 1 to our annual report for additional details.

(2) Reflects average default rate for the trailing twelve month period.

(3) Estimated LGD is based on accounts that default. Estimated EAD is based on all accounts. For actual LGD, payments are discounted to the default date using discount rates based on opportunity cost (the highest interest rate at which we would originate a new loan in the corresponding portfolio). Estimated and actual EAD include only revolving facilities.

(4) Both estimated and actual EAD are based on accounts that default. Actual LGD is based on payments received after default for accounts that defaulted 24 months before the effective month, using a discount rate based on opportunity cost. Estimated and actual EAD include only revolving products (lines of credit, credit cards, and overdraft facilities). Retail information is based upon our internal parameter monitoring system, which covers more than 90% of retail exposures.

n/a Not applicable.

PILLAR 3 REPORT INDEX

The Basel Committee of Banking Supervision (BCBS) released its report “Revised Pillar 3 disclosure requirements” on January 2015, which included disclosure requirements. The index below provides a listing of these disclosure requirements, 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 BCBS’ Capital Adequacy Requirements (CAR) 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. The preceding pages of this Supplementary Regulatory Capital Disclosure package and 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 this Pillar 3 report 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 and RWA	OVA	Bank risk management approach		37, 41-47, 50-52, 54, 60, 64, 67, 68, 70, 76-78	
	OV1	Overview of RWA	14		
Linkages between financial statements and regulatory exposures	LI1	Differences between accounting and regulatory scopes of consolidation and mapping of financial statements with regulatory risk categories	16		
	LI2	Main sources of differences between regulatory exposure amounts and carrying values in financial statements	17		
	LIA	Explanations of differences between accounting and regulatory exposure amounts	16-17	117	
Credit risk	CRA	General information about credit risk		51	
	CR1	Credit quality of assets	18		
	CR2	Changes in stock of defaulted loans and debt securities	18		
	CRB	Additional disclosure related to the credit quality of assets	18	52, 75, 107, 108, 135	23-32
	CRC	Qualitative disclosure requirements related to credit risk mitigation techniques		52, 63, 145	
	CR3	Credit risk mitigation techniques – overview	19		
	CRD	Qualitative disclosures on banks’ use of external credit ratings under the standardized approach for credit risk		56	
	CR4	Standardized approach – credit risk exposure and Credit Risk Mitigation (CRM) effects	19		
	CR5	Standardized approach – exposures by asset classes and risk weights	20		
	CRE	Qualitative disclosures related to IRB models		31, 46, 47, 51, 52-55	
	CR6	IRB – Credit risk exposures by portfolio and PD range ⁽¹⁾	21		
CR7	IRB – Effect on RWA of credit derivatives used as CRM techniques	n/a ⁽²⁾			
CR8	RWA flow statements of credit risk exposures under IRB	15			
CR9	IRB – Backtesting of probability of default (PD) per portfolio ⁽¹⁾	23			
CR10	IRB (specialized lending and equities under the simple risk weight method)	25			
Counterparty credit risk	CCRA	Qualitative disclosure related to counterparty credit risk		52, 56, 74, 143, 145, 146	
	CCR1	Analysis of counterparty credit risk (CCR) exposure by approach	25		
	CCR2	Credit valuation adjustment (CVA) capital charge	26		
	CCR3	Standardized approach of CCR exposures by regulatory portfolio and risk weights	26		
	CCR4	IRB – CCR exposures by portfolio and PD scale ⁽¹⁾	27		
	CCR5	Composition of collateral for CCR exposure	28		
	CCR6	Credit derivatives exposures	28		
	CCR7	RWA flow statements of CCR exposures under the Internal Model Method (IMM)	n/a ⁽³⁾		
CCR8	Exposures to central counterparties	29			
Securitization ⁽⁴⁾	SECA	Qualitative disclosure requirements related to securitization exposures		32, 40, 63, 103, 109	
	SEC1	Securitization exposures in the banking book	29		
	SEC2	Securitization exposures in the trading book	30		
	SEC3	Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as originator or as sponsor	30		
	SEC4	Securitization exposures in the banking book and associated capital requirements – bank acting as investor	31		
Market risk		n/a ⁽⁵⁾			

(1) There are several key differences between Basel and IFRS 9 which could lead to significantly different estimates for PDs and LGDs. 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 Note 1 to our annual report for additional details.

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

(3) We have no CCR exposures under the IMM method as at October 31, 2018.

(4) 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.

(5) We have elected to apply the exception permitted in the “Pillar 3 Disclosure Requirements” guideline issued by the office of the Superintendent of Financial Institutions (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. An effective date for domestic implementation of the second phase of the revised Pillar 3 disclosure framework has not yet been announced by OSFI.

n/a Not applicable.



OV1: OVERVIEW OF RISK-WEIGHTED ASSETS (RWA)

\$ millions

	Q4/18	Q3/18	Q4/18
	a	b	c
	RWA ⁽¹⁾		Minimum capital requirements
1 Credit risk (excluding counterparty credit risk) (CCR)	165,470	160,992	13,238
2 Of which: standardized approach (SA) ⁽²⁾	44,739	43,548	3,579
Of which: supervisory slotting approach	497	559	40
3 Of which: advanced internal rating-based approach	120,234	116,885	9,619
4 Counterparty credit risk ⁽³⁾	11,584	10,943	927
Of which: current exposure method (CEM) and standardized approach	6,746	6,428	540
Of which: credit valuation adjustment (CVA) capital charge	4,236	3,956	339
Of which: exposures to central counterparties	602	559	48
5 Of which: standardized approach for counterparty credit risk (SA-CCR)	-	-	-
6 Of which: internal model method (IMM)	-	-	-
7 Equity positions in banking book under market-based approach	-	-	-
8 Equity investments in funds - look-through approach ⁽⁴⁾	314	355	25
9 Equity investments in funds - mandate-based approach ⁽⁴⁾	3	10	-
10 Equity investments in funds - fall-back approach ⁽⁴⁾	-	-	-
11 Settlement risk	-	260	-
12 Securitization exposures in banking book	1,113	1,147	89
13 Of which: IRB ratings-based approach (RBA)	871	895	70
14 Of which: IRB Supervisory Formula Approach (SFA)	242	252	19
15 Of which: SA/simplified supervisory formula approach (SSFA)	-	-	-
16 Market risk	6,383	7,154	511
17 Of which: standardized approach (SA)	33	30	3
18 Of which: internal model approaches (IMM)	6,350	7,124	508
19 Operational risk	26,626	26,324	2,130
20 Of which: Basic Indicator Approach	-	-	-
21 Of which: Standardized Approach	-	-	-
22 Of which: Advanced Measurement Approach	26,626	26,324	2,130
23 Amounts below the thresholds for deduction (subject to 250% risk-weight)	4,651	4,635	372
24 Floor adjustment	-	-	-
25 Total (1+4+7+8+9+10+11+12+16+19+23+24)	216,144	211,820	17,292

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

(2) Includes RWAs of \$5,444 million (Q3/18: \$5,285 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 RWAs of \$436 million (Q3/18: \$441 million) relating to non-trading equity investments.

(3) Comprises derivative and repo-style transactions.

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

Variance analysis

The increase in credit risk RWAs is primarily due to organic growth across our businesses and net foreign exchange movement, partially offset by portfolio upgrades and migrations during the period.

The increase in counterparty credit risk RWAs is primarily due to organic growth across our businesses and net foreign exchange movement, partially offset by portfolio upgrades and migrations during the period.

The overall decrease in market risk RWAs is primarily driven by movement in risk levels, which includes changes in open positions, the market rates affecting these positions, capital model updates and foreign exchange movement.

The increase in operational risk RWAs was primarily driven by movement in risk levels under the advanced measurement approach, which reflects changes in loss experience, changes in the business environment, internal control factors and gross income, as defined by the BCBS.



CHANGES IN CET1 RISK-WEIGHTED ASSETS

(\$ millions)	Q4/18 vs. Q3/18		Q3/18 vs. Q2/18	Q2/18 vs. Q1/18	Q1/18 vs. Q4/17	
	CR8					
		Of which determined under an IRB approach	Of which all other ⁽¹⁾			
Credit risk						
1 Balance at beginning of period	167,399	116,885	50,514	163,915	159,617	161,029
2 Asset size ⁽²⁾	4,640	4,155	485	3,171	4,754	4,040
3 Asset quality ⁽³⁾	(424)	(423)	(1)	(1,086)	(1,126)	(952)
4 Model updates ⁽⁴⁾	(21)	82	(103)	479	(749)	69
5 Methodology and policy ⁽⁵⁾	-	-	-	-	-	133
6 Acquisitions and disposals	-	-	-	-	-	300
7 Foreign exchange movements	775	252	523	786	2,564	(2,830)
8 Other	(818)	(717)	(101)	134	(1,145)	(2,172)
9 Balance at end of period	171,551	120,234	51,317	167,399	163,915	159,617
Counterparty credit risk						
Balance at beginning of period	10,943			11,472	11,131	10,125
Asset size ⁽²⁾	361			175	151	1,127
Credit quality of counterparties ⁽³⁾	(40)			(331)	(591)	(346)
Model updates ⁽⁴⁾	-			-	96	-
Methodology and policy ⁽⁵⁾	-			-	-	380
Acquisitions and disposals	-			-	-	-
Foreign exchange movements	32			39	165	(137)
Other	288			(412)	520	(18)
Balance at end of period	11,584			10,943	11,472	11,131
Market risk						
1 Balance at beginning of period	7,154			6,907	5,609	5,392
2 Movement in risk levels ⁽⁶⁾	(677)			223	1,079	80
3 Model updates ⁽⁴⁾	(60)			-	257	(8)
4 Methodology and policy ⁽⁵⁾	-			-	-	-
5 Acquisitions and disposals	-			-	-	-
6 Foreign exchange movements	(34)			24	(38)	145
7 Other	-			-	-	-
8 Balance at end of period	6,383			7,154	6,907	5,609
Operational risk						
Balance at beginning of period	26,324			25,774	25,241	24,664
Movement in risk levels ⁽⁷⁾	302			550	533	536
Methodology and policy ⁽⁵⁾	-			-	-	-
Acquisitions and disposals	-			-	-	41
Balance at end of period	26,626			26,324	25,774	25,241

(1) 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%.

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

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

(4) Relates to internal model or parameter changes.

(5) Relates to regulatory changes implemented on an industry-wide basis (i.e., Basel III) and any capital methodology changes implemented within CIBC for our portfolios.

(6) Relates to changes in open positions and market data.

(7) 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

	Q4/18						
	a	b	c	d	e		g
	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation ⁽²⁾	Subject to credit risk framework	Subject to counterparty credit risk framework	Carrying values of items: ⁽¹⁾		Not subject to capital requirements or subject to deduction from capital
					Subject to the securitization framework ⁽³⁾	Subject to the market risk framework	
ASSETS							
Cash and non-interest-bearing deposits with banks	4,380	4,380	4,380	-	-	-	-
Interest-bearing deposits with banks	13,311	13,311	13,215	-	-	96	-
Securities	101,664	101,413 ⁽⁴⁾	50,424	1,902	1,201	49,784	-
Cash collateral on securities borrowed	5,488	5,488	-	5,488	-	-	-
Securities purchased under resale agreements	43,450	43,450	-	43,450	-	-	-
Loans	371,396	371,396 ⁽⁵⁾	369,096	388	1,917	15,730	-
Other							
Derivative instruments	21,431	21,431 ⁽⁶⁾	-	21,431	-	19,132	-
Customers' liability under acceptances	10,265	10,265	10,265	-	-	-	-
Land, buildings and equipment	1,795	1,795	1,795	-	-	-	-
Goodwill	5,564	5,564	-	-	-	-	5,564
Software and other intangible assets	1,945	1,945	-	-	-	-	1,945
Investments in equity-accounted associates and joint ventures	526	920	907	-	-	-	13
Deferred tax assets	601	601	1,013	-	-	-	(412) ⁽⁷⁾
Other assets	15,283	15,178	11,549	2,692	10	561	362
Total assets	597,099	597,137	462,644	75,351	3,128	85,303	7,472
LIABILITIES							
Deposits							
Personal	163,879	163,879	-	-	-	-	163,879
Business and government	240,149	240,149	-	-	-	507	239,642
Bank	14,380	14,380	-	-	-	-	14,380
Secured borrowings	42,607	42,607	-	-	-	-	42,607
	461,015	461,015	-	-	-	507	460,508
Obligations related to securities sold short	13,782	13,782	-	-	-	13,731	51
Cash collateral on securities lent	2,731	2,731	-	2,731	-	-	-
Obligations related to securities sold under repurchase agreements	30,840	30,840	-	30,840	-	-	-
Other							
Derivative instruments	20,973	20,973 ⁽⁶⁾	-	11,789	-	19,013	-
Acceptances	10,296	10,296	-	-	-	-	10,296
Deferred tax liability	43	43	-	-	-	-	43
Other liabilities	18,223	18,261	-	-	-	2,051	16,210
	49,535	49,573	-	11,789	-	21,064	26,549
Subordinated indebtedness	4,080	4,080	-	-	-	-	4,080
Total liabilities	561,983	562,021	-	45,360	-	35,302	491,188

(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 Re and CIBC Life are excluded from the scope of regulatory consolidation. Refer to page 4 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

	Q4/18				
	a	b	c	d	e
		Items subject to:			
	Total ⁽¹⁾	Credit risk framework ⁽²⁾	Securitization framework	Counterparty credit risk framework	Market risk framework
1 Asset carrying value amount under scope of regulatory consolidation (as per template LI1)	589,665	462,644	3,128	75,351	85,303
2 Liabilities carrying value amount under regulatory scope of consolidation (as per template LI1)	70,833	-	-	45,360	35,302
3 Total net amount under regulatory scope of consolidation	518,832	462,644	3,128	29,991	50,001
4 Off-balance sheet amounts ⁽³⁾	284,434	211,772	10,533	62,129	-
5 Differences in valuations	1,063	1,063 ⁽⁴⁾	-	-	-
6 Differences due to different netting rules, other than those already included in row 3 ⁽⁵⁾	2,965	-	-	2,965	-
7 Differences due to consideration of provisions ⁽⁶⁾	1,378	1,378	-	-	-
8 Differences due to prudential filters	-	-	-	-	-
9 Gross-up for securities financing transactions ⁽⁷⁾	67,142	-	-	67,142	-
10 Potential future exposure for derivatives	21,347	-	-	21,347	-
11 Collateral ⁽⁸⁾	(133,722)	-	-	(133,722)	-
12 Other ⁽⁹⁾	(49,749)	-	-	-	(49,749)
13 Exposure amounts considered for regulatory purposes	713,690	676,857	13,661	49,852	252

(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 \$371 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 which 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 transaction 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 QCCPs. Excludes collateral amounts that do not reduce regulatory exposures. Collateral amounts are net of applicable haircuts.

(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 IRB approach for securitization positions in the trading book.

CR1: CREDIT QUALITY OF ASSETS

\$ millions

	Q4/18			
	a	b	c	d
	Gross carrying values of			
	Defaulted exposures ⁽¹⁾	Non-defaulted exposures	Allowances/ impairments	Net value (a+b-c)
1 Loans	1,480	381,820	1,639	381,661
2 Debt securities	375	75,380	23	75,732
2a Other investment ⁽²⁾	-	11	-	11
3 Off-balance sheet exposures ⁽³⁾	29	248,678	102	248,605
4 Total	1,884	705,889	1,764	706,009

(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 \$116.5 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 ⁽¹⁾

\$ millions

	Q4/18
	a
1 Defaulted loans and debt securities at end of the previous reporting period	2,161
2 Loans and debt securities that have defaulted since the last reporting period	591
Amounts repaid	(446)
3 Returned to non-defaulted status	(159)
4 Amounts written off	(272)
5 Other changes ⁽²⁾	9
6 Defaulted loans and debt securities at end of the reporting period (1+2-3-4+5)	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 changes due to foreign exchange movements.

CR3: CREDIT RISK MITIGATION TECHNIQUES - OVERVIEW

\$ millions

	Q4/18				
	a	b1	b	d	f
	Exposure unsecured: carrying amount ⁽¹⁾	Exposure secured ⁽²⁾	Exposure secured by collateral ⁽³⁾	Exposures secured by financial guarantees	Exposures secured by credit derivatives ⁽⁴⁾
1 Loans	50,022	331,639	331,242	397	-
2 Debt securities	58,978	16,754	2,599	14,155	-
3 Total ⁽³⁾	109,000	348,393	333,841	14,552	-
4 Of which defaulted	727	1,189	1,187	2	-

- (1) Includes fully unsecured exposures and the unsecured portion of partially-secured exposures.
 (2) Amounts reflect the entire carrying value of exposures which are secured by either collateral or financial guarantees.
 (3) All residential mortgages are included in exposure secured by collateral.
 (4) Excludes derivatives which do not qualify in reducing exposures considered for regulatory capital purposes.

CR4: STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK MITIGATION (CRM) EFFECTS

\$ millions

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

- (1) Credit conversion factor.
 (2) Comprises non-trading equities that are risk-weighted at 100% under the materiality clause. RWAs 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 which are risk-weighted at 1250%, settlement risk, and amounts below the thresholds for deduction that are risk-weighted at 250%.

CR5: STANDARDIZED APPROACH - EXPOSURES BY ASSET CLASSES AND RISK-WEIGHTS

\$ millions

	Q4/18									
	a	b	c	d	e	f	g	h	i	j
	Risk weight									
Asset classes	0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposures amount (post CCF and post-CRM)
1 Sovereigns and their central banks	6,454	-	4,314	-	107	-	711	461	-	12,047
2 Non-central government public sector entities (PSEs)	-	-	-	-	-	-	-	-	-	-
3 Multilateral development banks (MDBs)	-	-	-	-	-	-	-	-	-	-
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 ⁽¹⁾	-	-	-	-	-	-	411	-	-	411
11 Past-due loans	-	-	-	-	-	-	-	-	-	-
12 Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13 Other assets ⁽²⁾	1,835	-	-	-	-	-	4,973	-	1,899	8,707
14 Total⁽¹⁾	8,525	-	6,074	-	237	4,672	38,516	596	1,899	60,519

(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%.

CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PROBABILITY OF DEFAULT (PD) RANGE ⁽¹⁾

\$ 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 ⁽²⁾	Average LGD %	Average maturity ⁽³⁾	RWA ⁽⁴⁾	RWA density %	Expected losses ⁽⁵⁾	Provisions ⁽⁵⁾
Business and government portfolios												
Corporate												
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
Sovereign												
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	-
Banks												
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

(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 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.

n/a Not applicable.



CR6: IRB - CREDIT RISK EXPOSURES BY PORTFOLIO AND PROBABILITY OF DEFAULT (PD) RANGE (continued) ⁽¹⁾

\$ 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 ⁽²⁾	Average LGD %	Average maturity ⁽³⁾	RWA ⁽⁴⁾	RWA density %	Expected losses ⁽⁵⁾	Provisions ⁽⁵⁾
Retail portfolios												
Real estate secured personal lending (insured)												
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
Real estate secured personal lending (uninsured)												
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
Qualifying revolving retail												
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
Other retail												
0.00 to <0.15	3,324	1,767	75	4,646	0.11	21,220	63	n/a	471	10	2	
0.15 to <0.25	60	13	17	63	0.22	1,204	84	n/a	24	38	-	
0.25 to <0.50	755	589	58	1,097	0.30	107,529	75	n/a	450	41	2	
0.50 to <0.75	950	273	53	1,096	0.61	2,264	70	n/a	673	61	5	
0.75 to <2.50	4,110	774	59	4,569	1.21	33,901	71	n/a	3,810	83	41	
2.50 to <10.00	2,324	158	67	2,431	4.29	12,282	79	n/a	2,275	94	72	
10.00 to <100.00	567	291	61	743	52.40	3,251	76	n/a	526	71	88	
100.00 (Default)	67	1	58	68	100.00	1,204	78	n/a	12	17	63	
	12,157	3,866	66	14,713	4.29	182,855	70	n/a	8,241	56	273	140
Total (all portfolios)	409,804	293,927	70	615,342	0.41	11,622,779	17	n/a	120,234	20	1,801	1,238

(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 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.

n/a Not applicable.



CR9: IRB - BACKTESING OF PD PER PORTFOLIO ⁽¹⁾

\$ millions	a	b	c	Q4/18						
				d	e	f		g	h	i
						Weighted average PD %	Arithmetic average PD by obligors %			
			External rating equivalent	End of previous year	End of the year	Defaulted obligors in the year	Of which: new defaulted obligors in the year			
Business and government portfolios										
Corporate										
		PD Range								
		0.01-0.03	AAA	0.03	0.03	12	17	-	-	-
		0.04-0.06	AA	0.04	0.05	44	69	-	-	-
		0.07-0.13	A	0.11	0.10	1,326	1,427	1	-	0.02
		0.14-0.34	BBB	0.25	0.26	5,118	5,639	16	12	0.11
		0.35-1.44	BB	0.83	0.89	6,960	7,176	51	23	0.26
		1.45-11.00	B	3.60	4.67	25,180	28,305	791	41	0.32
		Over 11%	C	48.79	49.22	1,602	1,813	141	66	3.28
				1.67	2.79	40,242	44,446	1,000	142	0.40
Sovereign										
		0.01-0.02	AAA	0.02	0.02	255	294	-	-	-
		0.02-0.03	AA	0.03	0.03	58	81	-	-	-
		0.04-0.13	A	0.05	0.05	431	459	-	-	-
		0.14-0.34	BBB	0.22	0.23	201	252	-	-	-
		0.35-1.44	BB	0.61	0.73	98	98	1	1	0.35
		1.45-11.00	B	5.84	5.83	481	468	-	-	0.07
		Over 11%	C	26.02	23.10	12	9	1	1	3.09
				0.09	1.26	1,536	1,661	2	2	0.09
Banks										
		0.01-0.03	AAA	0.03	0.03	5	4	-	-	-
		0.04-0.06	AA	0.05	0.04	58	49	-	-	-
		0.07-0.13	A	0.09	0.11	139	169	-	-	-
		0.14-0.34	BBB	0.20	0.18	68	60	-	-	-
		0.35-1.44	BB	0.59	0.65	45	32	-	-	-
		1.45-11.00	B	6.52	5.63	194	209	-	-	-
		Over 11%	C	16.72	16.72	2	1	-	-	-
				0.73	0.38	511	524	-	-	-

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

(2) Reflects a five-year average of the annual default rate.

CR9: IRB - BACKTESTING OF PD PER PORTFOLIO (continued) ⁽¹⁾

\$ millions	a	b	c	Q4/18						
				d	e	f		g	h	i
						Weighted average PD %	Arithmetic average PD by obligors %			
			End of previous year	End of the year	Defaulted obligors in the year	Of which: new defaulted obligors in the year	Average historical annual default rate % ⁽³⁾			
Retail portfolios										
Real estate secured personal lending										
		PD Range	External rating equivalent							
		0.01-0.03	AAA	0.03	0.03	345,616	300,852	-	-	0.01
		0.04-0.06	AA	0.05	0.05	267,433	138,386	214	1	0.03
		0.07-0.13	A	0.07	0.07	286,473	476,322	588	9	0.05
		0.14-0.34	BBB	0.20	0.19	201,964	183,901	687	7	0.14
		0.35-1.44	BB	0.66	0.65	226,244	222,923	2,889	82	0.53
		1.45-11.00	B	5.58	5.15	38,503	31,441	1,939	15	4.33
		Over 11%	C	36.37	33.88	5,133	5,449	1,145	1	28.84
				0.60	0.71	1,371,366	1,359,274	7,462	115	0.63
Qualifying revolving retail										
		0.01-0.03	AAA	0.03	0.03	1,032,812	1,099,613	-	-	0.02
		0.04-0.06	AA	0.04	0.04	1,332,309	1,202,622	110	10	0.04
		0.07-0.13	A	0.10	0.09	968,922	1,177,926	497	41	0.08
		0.14-0.34	BBB	0.23	0.21	1,941,611	1,971,897	5,918	471	0.18
		0.35-1.44	BB	0.79	0.74	2,453,879	2,443,237	11,721	235	0.69
		1.45-11.00	B	3.31	3.59	1,846,522	1,844,392	28,577	957	3.41
		Over 11%	C	32.27	28.64	277,509	272,379	15,149	2,502	27.28
				1.27	1.83	9,853,564	10,012,066	61,972	4,216	1.74
Other retail										
		0.01-0.03	AAA	0.03	0.03	4,488	4,453	-	-	0.01
		0.04-0.06	AA	0.03	0.03	462	538	-	-	0.03
		0.07-0.13	A	0.10	0.10	17,029	4,873	19	-	0.08
		0.14-0.34	BBB	0.17	0.19	35,238	82,762	97	28	0.16
		0.35-1.44	BB	0.91	0.89	86,651	93,507	1,030	67	0.78
		1.45-11.00	B	3.65	4.59	182,908	168,700	5,152	557	4.26
		Over 11%	C	33.61	28.65	276,107	284,597	35,903	14,039	18.63
				2.14	15.55	602,883	639,430	42,201	14,691	11.04

(1) Amounts are calculated before 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.

(3) Reflects a five-year average of the annual default rate.

CR10: IRB (SPECIALIZED LENDING AND EQUITIES UNDER THE SIMPLE RISK-WEIGHT METHOD) ⁽¹⁾

\$ millions

Q4/18

Specialized lending

Other than high volatility commercial real estate (HVCRE) ⁽²⁾

Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	RW %	Exposure amount				Total	RWA	Expected losses
					PF	OF	CF	IPRE			
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	-	-
Total		621	4		-	-	-	625	625	497	4

(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.

CCR1: ANALYSIS OF COUNTERPARTY CREDIT RISK (CCR) EXPOSURE BY APPROACH ⁽¹⁾

\$ millions

Q4/18

	a	b	c	d	e	f
	Replacement cost	Potential future exposure	EEPE ⁽²⁾	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 Internal Model Method (for derivatives and SFTs)			-	-	-	-
3 Simple Approach for credit risk mitigation (for SFTs)						
4 Comprehensive Approach for credit risk mitigation (for SFTs)					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

	Q4/18	
	a	b
Total portfolios subject to the Advanced CVA capital charge	EAD post-CRM	RWA ⁽¹⁾
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) RWAs include application of a scaling factor of 80%.

CCR3: STANDARDIZED APPROACH - CCR EXPOSURES BY REGULATORY PORTFOLIO AND RISK-WEIGHTS ⁽¹⁾⁽²⁾

\$ millions

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

(1) Counterparty credit risk for our standardized portfolios is calculated under the current exposure method.

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

CCR4: CCR EXPOSURES BY PORTFOLIO AND PD SCALE

\$ millions

PD scale	Q4/18						
	a	b	c	d	e	f	g
	EAD post-CRM	Average PD %	Number of obligors ⁽¹⁾	Average LGD %	Average maturity ⁽²⁾	RWA	RWA density %
Corporate							
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
Sovereign							
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
Banks							
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
Total (all portfolios)	34,011	0.35	4,510	25	1.8	6,459	19

(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.

n/a Not applicable.

CCR5: COMPOSITION OF COLLATERAL FOR CCR EXPOSURE ⁽¹⁾

\$ millions	Q4/18					
	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		
a	b	c	d	e	f	
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	-
Total	-	7,573	1,173	10,654	118,595	137,594

(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.

CCR6: CREDIT DERIVATIVES EXPOSURES

\$ millions	Q4/18	
	a Protection bought	b Protection sold
Notionals		
Single-name credit default swaps	567	13
Index credit default swaps	197	197
Total return swaps	-	-
Credit options	-	-
Other credit derivatives	596	260
Total notionals	1,360	470
Fair values		
Positive fair value (asset)	115	3
Negative fair value (liability)	147	-

CCR8: EXPOSURES TO CENTRAL COUNTERPARTIES

\$ millions

	Q4/18	
	a	b
	EAD (post-CRM)	RWA
1 Exposures to QCCPs (total)	10,046	602
2 Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which		
3 (i) OTC derivatives	3,509	74
4 (ii) Exchange-traded derivatives	5,797	181
5 (iii) Securities financing transactions	740	15
6 (iv) Netting sets where cross-product netting has been approved	-	-
7 Segregated initial margin	1,173	-
8 Non-segregated initial margin	3,257	100
9 Pre-funded default fund contributions	369	232
10 Unfunded default fund contributions	689	-
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

	Q4/18																										
	a			b			c			e			f			g			i			j			k		
	Bank acts as originator ⁽¹⁾			Banks act as sponsor ⁽²⁾			Banks act 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	318	-	318	6,327	-	6,327	2,454	-	2,454																		
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	-	-	-	3,058	-	3,058	1,796	26	1,822																		
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																		

(1) We hold regulatory capital against the underlying exposures associated with our credit card securitization trust, CARDS II Trust, as we have in the past provided non-contractual support to the trust. These exposures are risk-weighted under the credit risk framework.

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

SEC2: SECURITIZATION EXPOSURES IN THE TRADING BOOK ⁽¹⁾

\$ millions

	Q4/18																										
	a			b			c			e			f			g			i			j			k		
	Bank acts as originator ⁽²⁾			Banks act as sponsor ⁽³⁾			Banks act 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	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	-	-	-	-	-	-	-	-	-																		

(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.

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

\$ 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%		>50%		>100%	1250%	IRB	IRB	SA/	1250%	IRB	SA/	1250%	IRB	SA/	1250%	IRB	SA/	1250%
	≤20%	to	to	to <	1250%	(including	IRB	SA/	SSFA	1250%	(including	IRB	SA/	SSFA	1250%	(including	IRB	SA/	SSFA
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 securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(1) Excludes exposures relating to CARDS II Trust which are risk-weighted under the credit risk framework.



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

\$ 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	IRB RBA (including IAA)	IRB SFA	SA/ SSFA	1250%	IRB RBA (including IAA)	IRB SFA	SA/ SSFA	1250%	IRB RBA (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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 RWAs 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 RWAs, as defined by OSFI's Capital Adequacy Requirements Guideline, which is based on BCBS standards. During the period beginning in the third quarter of 2014 to the fourth quarter of 2018, on an all-in basis, before any capital floor requirement, there are three different levels of RWAs for the calculation of CIBC's CET1, Tier 1 and Total capital ratios. This occurs because of the option CIBC has chosen for the phase-in of the CVA capital charge.

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

Capital calculation method for securitizations available to the banks approved to use the IRB approach for underlying exposures securitized. We use the IRB approach for securitization exposures, which comprises several calculation approaches (Ratings-Based, Supervisory Formula, and the Internal Assessment Approach).

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)

RWAs consist of three components: (i) RWAs for credit risk are calculated using the AIRB and standardized approaches. The AIRB RWAs 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) RWAs for market risk in the trading portfolio are based on the internal models approved by OSFI with the exception of the RWAs for traded securitization assets where we are using the methodology defined by OSFI; and (iii) RWAs 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 the third quarter of 2014 to the fourth quarter of 2018, 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 RWAs.

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.