

Supplementary Regulatory Capital Information

For the Quarter Ended – January 31, 2019

For further information, contact:

JILL HOMENUK
Head, Investor Relations
416.867.4770
jill.homenuk@bmo.com

CHRISTINE VIAU
Director, Investor Relations
416.867.6956
christine.viau@bmo.com

www.bmo.com/investorrelations

Q1 | 19

TABLE OF CONTENTS

	Page		Page
Notes to Users	1	Counterparty Credit Risk Schedules	27-35
Pillar 3 Disclosure Requirements Index	2	CCR1 - Analysis of Counterparty Credit Risk (CCR) Exposure by Approach	27
Overview of Regulatory Capital, Risk Weighted Assets and Capital Ratios	3-13	CCR2 - Credit Valuation Adjustment (CVA) Capital Charge	28
CC1 - Composition of Regulatory Capital	3-4	CCR3 - Standardized Approach - CCR Exposures by Regulatory Portfolio and Risk Weights	29
CC2 - Reconciliation of Regulatory Capital to Balance Sheet	5	CCR4 - IRB - CCR Exposures by Portfolio and PD Scale	30-31
Flow Statement of Basel III Regulatory Capital	6	CCR5 - Composition of Collateral for CCR Exposure	32
Capital Ratios for Significant Bank Subsidiaries	6	CCR6 - Credit Derivatives Exposures	33
KM2 - Key Metrics - TLAC Requirements	7	CCR8 - Exposures to Central Counterparties	34
TLAC1 - TLAC Composition	8	Derivative Instruments	35
TLAC3 - Resolution Entity - Creditor Ranking at Legal Entity Level	9	Securitization Schedules	36-39
Summary Comparison of Accounting Assets vs. Leverage Ratio Exposure Measure	10	SEC1 - Securitization Exposures in the Banking Book	36
Leverage Ratio Common Disclosure	10	SEC2 - Securitization Exposures in the Trading Book	37
OV1 - Overview of RWA	11	SEC3 - Securitization Exposures in the Banking Book and Associated Capital Requirements (Bank Acting as Originator or as Sponsor)	38
Common Equity Tier 1 (CET 1) Capital Risk-Weighted Assets by Operating Groups	11	SEC4 - Securitization Exposures in the Banking Book and Associated Capital Requirements (Bank Acting as Investor)	39
LI1 - Differences Between Accounting and Regulatory Scopes of Consolidation and Mapping of Financial Statements with Regulatory Risk Categories	12	Market Risk Risk-Weighted Assets (RWA) Movement by Key Drivers	40
LI2 - Main Sources of Differences Between Regulatory Exposure Amounts and Carrying Values in Financial Statements	13	Estimated and Actual Loss Parameters under AIRB Approach	41
Credit Risk Schedules	14-26	Glossary	42
CR1 - Credit Quality of Assets	14		
CR2 - Changes in Stock of Defaulted Loans and Debt Securities	15		
CR3 - Credit Risk Mitigation Techniques - Overview	16		
CR4 - Standardized Approach - Credit Risk Exposure and Credit Risk Mitigation (CRM) Effects	17		
CR5 - Standardized Approach - Exposures by Asset Classes and Risk Weights	18		
CR6 - IRB - Credit Risk Exposures by Portfolio and PD Range	19-22		
CR7 - IRB - Effect on RWA of Credit Derivatives Used as CRM Techniques	23		
CR8 - RWA Flow Statements of Credit Risk and Counterparty Credit Risk Exposures	24		
Exposure Covered by Credit Risk Mitigation	25		
Credit Risk Exposure by Geographic Region	25		
Credit Risk Exposure by Major Asset Class	25		
Credit Risk by Residual Contract Maturity Breakdown	26		
Credit Risk Exposure by Industry	26		

This report is unaudited and all amounts are in millions of Canadian dollars, unless otherwise indicated.

Use of this Document

The supplemental information contained in this package is designed to improve the readers' understanding of the capital requirements of BMO Financial Group (the Bank). This information should be used in conjunction with the Bank's Q1 2019 Report to Shareholders and the 2018 Annual Report.

Additional financial information is also available in the Q1 2019 Supplementary Financial Information, Q1 2019 Investor Presentation as well as the Conference Call Webcast which can be accessed at our website at www.bmo.com/investorrelations.

This report is unaudited and all amounts are in millions of Canadian dollars, unless indicated otherwise.

Items indicated n.a. were not applicable.

Changes

For institutions using advanced approaches for credit risk or operational risk, there is a Capital Floor as prescribed in OSFI's CAR Guideline. OSFI revised its approach for calculating the Capital Floor effective Q2 2018. Changes include a shift to the Basel II standardized approach, as well as a reduction of the floor factor to 70% in Q2 2018, 72.5% in Q3 2018 and 75% in Q4 2018 and onward.

In May 2018, OSFI released the Total Loss Absorbing Capacity (TLAC) Disclosure Requirements for Canadian D-SIBs which have been adopted prospectively effective January 31, 2019.

On November 20, 2018, OSFI released the revised Leverage Ratio Disclosure Requirements Guideline. The revisions, which reflect the recent changes to the Leverage Requirements guideline and OSFI's CAR Guideline, incorporate a new line to capture the treatment of securitized assets that meet the operational requirements for recognition of significant risk transfer. The new guideline has been adopted prospectively effective January 31, 2019.

On April 20, 2017, the Office of Superintendent of Financial Institutions (OSFI) released the final version of the Pillar 3 Disclosure Requirements, setting OSFI's expectations for Domestic Systemically Important Banks (D-SIBs) for the Revised Pillar 3 Disclosure Requirements issued by the Basel Committee on Banking Supervision in January 2015. We have adopted this guidance prospectively effective October 31, 2018. For information prior to Q4 2018, please refer to Q3 2018 and prior Supplementary Financial Information Packages.

Users may provide their comments and suggestions on the Supplementary Regulatory Capital Information document by contacting Christine Viau at (416) 867-6956 or christine.viau@bmo.com

PILLAR 3 DISCLOSURE REQUIREMENTS INDEX

Tables and Templates		Frequency	Q1 2019 Supplementary Financial Information	Q1 2019 Supplementary Regulatory Capital Information	Annual MD&A	Annual Financial Statements
			Page Reference			
Overview of risk management, key prudential metrics and RWA	KM2 - Key metrics - TLAC requirements	Quarterly		7		
	OVA - Bank risk management approach	Annual			69-75, 78-116	
	OV1 - Overview of RWA	Quarterly		11		
Linkages between financial statements and regulatory exposures	LI1 - Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories	Quarterly		12		
	LI2 - Main sources of differences between regulatory exposure amounts and carrying values in financial statements	Quarterly		13		
	LIA - Explanations of differences between accounting and regulatory exposure amounts	Annual		12-13	118	184-190
Composition of Capital and TLAC	CC1 - Composition of regulatory capital	Quarterly		3-4		
	CC2 - Reconciliation of regulatory capital to balance sheet	Quarterly		5		
	TLAC1 - TLAC composition	Quarterly		8		
	TLAC2 - Material subgroup entity - creditor ranking at legal entity level		Not applicable to BMO			
Credit risk	TLAC3 - Resolution entity - creditor ranking at legal entity level	Quarterly		9		
	CRA - General qualitative information about credit risk	Annual			81-87	
	CR1 - Credit quality of assets	Quarterly		14		
	CR2 - Changes in stock of defaulted loans and debt securities	Quarterly		15		
	CRB - Additional disclosure related to the credit quality of assets	Annual	20-26, 29	25-26		157-164
	CRC - Qualitative disclosure requirements related to credit risk mitigation techniques	Annual			88-89	173, 185
	CR3 - Credit risk mitigation techniques - overview	Quarterly		16		
	CRD - Qualitative disclosures on banks' use of external credit ratings under the standardized approach for credit risk	Annual		18		
	CR4 - Standardized approach - credit risk exposure and Credit Risk Mitigation (CRM) effects	Quarterly		17		
	CR5 - Standardized approach - exposures by asset classes and risk weights	Quarterly		18		
	CRE - Qualitative disclosures related to IRB models	Annual			89-90, 111-112	
	CR6 - IRB - Credit risk exposures by portfolio and PD range	Quarterly		19-22		
	CR7 - IRB - Effect on RWA of credit derivatives used as CRM techniques	Quarterly		23		
	CR8 - RWA flow statements of credit risk exposures under IRB	Quarterly		24		
CR9 - IRB - Backtesting of probability of default (PD) per portfolio (1)	Annual			88-90, 112		
CR10 - IRB (specialized lending and equities under the simple risk-weight method)		Not applicable to BMO				
Counterparty credit risk	CCRA - Qualitative disclosure related to counterparty credit risk	Annual			87-88, 106	
	CCR1 - Analysis of counterparty credit risk (CCR) exposure by approach	Quarterly		27		
	CCR2 - Credit valuation adjustment (CVA) capital charge	Quarterly		28		
	CCR3 - Standardized approach - CCR exposures by regulatory portfolio and risk weights	Quarterly		29		
	CCR4 - IRB - CCR exposures by portfolio and PD scale	Quarterly		30-31		
	CCR5 - Composition of collateral for CCR exposure	Quarterly		32		
	CCR6 - Credit derivatives exposures	Quarterly		33		
	CCR7 - RWA flow statements of CCR exposures under Internal Model Method (IMM)		Not applicable to BMO			
	CCR8 - Exposures to central counterparties	Quarterly		34		
Securitization	SECA - Qualitative disclosure requirements related to securitization exposures	Annual			76, 89	148, 165-167
	SEC1 - Securitization exposures in the banking book	Quarterly		36		
	SEC2 - Securitization exposures in the trading book	Quarterly		37		
	SEC3 - Securitization exposures in the banking book and associated regulatory capital requirements (bank acting as originator or as sponsor)	Quarterly		38		
	SEC4 - Securitization exposures in the banking book and associated capital requirements (bank acting as investor)	Quarterly		39		
Market risk	MRA - Qualitative disclosure requirements related to market risk		BMO has deferred these disclosures as allowed per OSFI's Pillar 3 guidance issued April 2017			
	MRB - Qualitative disclosures for banks using the Internal Models Approach (IMA)					
	MR1 - Market risk under standardized approach					
	MR2 - RWA flow statements of market risk exposures under an IMA					
	MR3 - IMA values for trading portfolios					
MR4 - Comparison of VaR estimates with gains/losses						
Operational Risk	ORA - General qualitative information on a bank's operational risk framework	Annual			109-110	
Interest Rate Risk in the Banking Book	IRRBBA - IRRBB risk management objective and policies	Annual			98-99	
	IRRBB1 - Quantitative information on IRRBB	Annual			99	

(1) Refer to Q4 2018 Supplementary Financial Information for CR9 - IRB - Backtesting of PD quantitative disclosure.

CC1 - COMPOSITION OF REGULATORY CAPITAL (1) (2)

	Cross reference (3)	2019 Q1	2018 Q4	2018 Q3	2018 Q2	2018 Q1	2017 Q4	2017 Q3
(\$ millions except as noted)								
Common Equity Tier 1 Capital: instruments and reserves								
1	Directly issued qualifying common share capital plus related stock surplus	a+b	13,222	13,229	13,226	13,230	13,326	13,349
2	Retained earnings	c	26,599	25,856	24,909	24,119	23,709	23,183
3	Accumulated other comprehensive income (and other reserves)	d	3,188	2,302	2,381	2,157	1,360	2,162
4	Directly issued capital subject to phase out from CET1		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)		-	-	-	-	-	-
6	Common Equity Tier 1 Capital before regulatory adjustments		43,009	41,387	40,516	39,506	38,588	38,694
Common Equity Tier 1 Capital: regulatory adjustments								
7	Prudential valuation adjustments		156	203	149	146	112	103
8	Goodwill (net of related tax liability)	e+p1-f	6,280	6,283	6,186	6,175	5,981	5,896
9	Other intangibles other than mortgage-servicing rights (net of related tax liability)	g-h	1,989	1,978	1,920	1,893	1,826	1,777
10	Deferred tax assets excluding those arising from temporary differences (net of related tax liability)	i-j	785	907	972	976	1,011	1,313
11	Cash flow hedge reserve	k	(280)	(1,074)	(885)	(768)	(746)	(191)
12	Shortfall of provisions to expected losses	k1	-	-	-	-	-	-
13	Securitization gain on sale		-	-	-	-	-	-
14	Gains or losses due to changes in own credit risk on fair valued liabilities (4)		(71)	(153)	(140)	(168)	(217)	(94)
15	Defined benefit pension fund net assets (net of related tax liability)	l-m	424	522	626	459	456	286
16	Investments in own shares (if not already netted off paid-in capital on reported balance sheet)	n	-	-	-	-	-	-
17	Reciprocal cross holdings in common equity		-	-	-	-	-	-
18	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold)		-	-	-	-	-	-
19	Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold)		-	-	-	-	-	-
20	Mortgage servicing rights (amount above 10% threshold)		-	-	-	-	-	-
21	Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability)		-	-	-	-	-	-
22	Amount exceeding the 15% threshold		-	-	-	-	-	-
23	of which: significant investments in the common stock financials	h1	-	-	-	-	-	-
24	of which: mortgage servicing rights	j1	-	-	-	-	-	-
25	of which: deferred tax assets arising from temporary differences	i1	-	-	-	-	-	-
26	Other deductions or regulatory adjustments to CET1 as determined by OSFI		-	-	-	-	-	-
27	Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions		-	-	-	-	-	-
28	Total regulatory adjustments to Common Equity Tier 1 Capital		9,283	8,666	8,828	8,713	8,423	9,481
29	Common Equity Tier 1 Capital (CET1)		33,726	32,721	31,688	30,793	30,165	29,604
Additional Tier 1 Capital: instruments								
30	Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	o1	4,050	4,050	3,650	3,650	3,650	3,650
31	of which: classified as equity under applicable accounting standards		4,050	4,050	3,650	3,650	3,650	3,650
32	of which: classified as liabilities under applicable accounting standards		-	-	-	-	-	-
33	Directly issued capital instruments subject to phase out from Additional Tier 1 (5)		290	740	740	1,040	1,040	1,040
34	Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1)	p	-	-	-	-	-	-
35	of which: instruments issued by subsidiaries subject to phase out		-	-	-	-	-	-
36	Additional Tier 1 Capital before regulatory adjustments		4,340	4,790	4,390	4,690	4,690	4,690
Additional Tier 1 Capital: regulatory adjustments								
37	Investments in own Additional Tier 1 instruments	n1	6	78	140	56	39	2
38	Reciprocal cross holdings in Additional Tier 1 instruments		-	-	-	-	-	-
39	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold)		-	-	-	-	-	-
40	Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions	t	213	213	213	213	213	213
41	Other deductions from Tier 1 Capital as determined by OSFI		-	-	-	-	-	-
41a	of which: Reverse mortgages		-	-	-	-	-	-
42	Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions		-	-	-	-	-	-
43	Total regulatory adjustments applied to Additional Tier 1 Capital		219	291	353	269	215	213
44	Additional Tier 1 Capital (AT1)		4,121	4,499	4,037	4,421	4,475	4,477
45	Tier 1 Capital (T1 = CET1 + AT1)		37,847	37,220	35,725	35,214	34,603	34,081
Tier 2 Capital: instruments and provisions								
46	Directly issued qualifying Tier 2 instruments plus related stock surplus	m1	6,676	6,639	5,468	5,511	5,442	4,011
47	Directly issued capital instruments subject to phase out from Tier 2 Capital	u	144	143	150	116	1,021	1,852
48	Tier 2 instruments (and CET1 and AT1 instruments not included in row 5 or 34) issued by subsidiaries and held by third parties (amount allowed in group Tier 2 Capital)	v	-	-	-	-	-	-
49	of which: instruments issued by subsidiaries subject to phase out		-	-	-	-	-	-
50	General allowances (6)	w	248	235	231	222	273	476
51	Tier 2 Capital before regulatory adjustments		7,068	7,017	5,849	5,849	6,736	6,339

(1) "All-in" regulatory capital assumes that all Basel III regulatory adjustments are applied effective January 1, 2013 and that the capital value of instruments which no longer qualify as regulatory capital under Basel III rules will be phased out at a rate of 10% per year from January 1, 2013 and continuing to January 1, 2022.

(2) Row numbering, as per OSFI July 2013 advisory, is provided for consistency and comparability in the disclosure of elements of capital among banks and across jurisdictions. Banks are required to maintain the same row numbering per OSFI advisory. Where there is no value in a row, institutions should report n.a or nil and the row number must not change.

(3) Cross reference to CC2 - Reconciliation of Regulatory Capital to Balance Sheet (page 5).

(4) For regulatory capital purposes only. Not included in consolidated balance sheet.

(5) The \$450MM of capital trust securities that were deconsolidated under IFRS, qualified as Additional Tier 1 Capital and are included in line 33 in Q3 2017 through Q4 2018 were redeemed on December 31, 2018.

(6) Prior to Q1 2018, this was Collective allowances. OSFI uses the term General allowances in its guidance dealing with IFRS 9.

CC1 - COMPOSITION OF REGULATORY CAPITAL (CONTINUED)

		Cross reference	2019 Q1	2018 Q4	2018 Q3	2018 Q2	2018 Q1	2017 Q4	2017 Q3
(\$ millions except as noted)									
Tier 2 Capital: regulatory adjustments									
52	Investments in own Tier 2 instruments	q1	76	71	91	72	79	-	6
53	Reciprocal cross holdings in Tier 2 instruments and Other TLAC-eligible instruments		-	-	-	-	-	-	-
54	Non-significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, where the institution does not own more than 10% of the issued common share capital of the entity (amount above 10% threshold)		-	-	-	-	-	-	-
54a	Non-significant investments in the other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs, where the institution does not own more than 10% of the issued common share capital of the entity: amount previously designated for the 5% threshold but that no longer meets the conditions		-	-	-	-	-	-	-
55	Significant investments in the capital of banking, financial and insurance entities and Other TLAC-eligible instruments issued by G-SIBs and Canadian D-SIBs that are outside the scope of regulatory consolidation, net of eligible short positions		50	50	50	50	50	50	50
56	Other deductions from Tier 2 capital	x	-	-	-	-	-	-	-
57	Total regulatory adjustments to Tier 2 Capital		126	121	141	122	129	50	56
58	Tier 2 Capital (T2)		6,942	6,896	5,708	5,727	6,607	5,488	6,283
59	Total Capital (TC = T1 + T2)		44,789	44,116	41,433	40,941	41,210	40,596	40,364
60	Total Risk-Weighted Assets								
60a	Common Equity Tier 1 (CET 1) Capital RWA (1)		296,987	289,237	277,506	273,011	270,577	269,466	264,819
60b	Tier 1 Capital RWA (1)		296,987	289,420	277,681	273,184	270,577	269,466	264,819
60c	Total Capital RWA (1)		296,987	289,604	277,857	273,357	270,577	269,466	264,819
Capital Ratios									
61	Common Equity Tier 1 (as percentage of risk-weighted assets)		11.4%	11.3%	11.4%	11.3%	11.1%	11.4%	11.2%
62	Tier 1 (as percentage of risk-weighted assets)		12.7%	12.9%	12.9%	12.9%	12.8%	13.0%	12.9%
63	Total Capital (as percentage of risk-weighted assets)		15.1%	15.2%	14.9%	15.0%	15.2%	15.1%	15.2%
64	Buffer (minimum CET1 plus capital conservation buffer plus G-SIB buffer plus D-SIB buffer requirement, expressed as a percentage of risk-weighted assets)		8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
65	of which: capital conservation buffer (2)		2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
66	of which: bank specific countercyclical buffer		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
67	of which: G-SIB buffer		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
67a	of which: D-SIB buffer (2)		1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
68	Common Equity Tier 1 available to meet buffers (as a percentage of risk weighted assets)		11.4%	11.3%	11.4%	11.3%	11.1%	11.4%	11.2%
OSFI target (minimum + capital conservation buffer + D-SIB buffer (if applicable))									
69	Common Equity Tier 1 target ratio		8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
70	Tier 1 capital target ratio		9.5%	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%
71	Total capital target ratio		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 and Other TLAC-eligible instruments of other financial entities	y - z	759	642	534	575	411	359	325
73	Significant investments in the common stock of financials	a1	1,739	1,660	1,694	1,635	1,568	1,481	1,461
74	Mortgage servicing rights (net of related tax liability)	b1	50	52	51	49	47	48	46
75	Deferred tax assets arising from temporary differences (net of related tax liability)	c1 - d1	1,558	1,677	1,675	1,597	1,579	1,952	1,913
Applicable caps on the inclusion of provisions in Tier 2									
76	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardized approach (prior to application of cap)		213	208	204	204	204	221	216
77	Cap on inclusion of provisions in Tier 2 under standardized approach		213	208	204	204	204	221	216
78	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings based approach (prior to application of cap)		1,286	1,277	1,270	1,255	1,237	1,516	1,483
79	Cap on inclusion of provisions in Tier 2 under internal ratings-based approach		35	27	27	18	69	287	260
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		-	-	-	-	-	-	-
81	Amounts excluded from CET1 due to cap (excess over cap after redemptions and maturities)		-	-	-	-	-	-	-
82	Current cap on AT1 instruments subject to phase out arrangements		1,296	1,729	1,729	1,729	1,729	2,161	2,161
83	Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities)		-	-	-	-	-	-	-
84	Current cap on T2 instruments subject to phase out arrangements		1,540	2,054	2,054	2,054	2,054	2,567	2,567
85	Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities)		-	-	-	-	-	-	-

(1) Under OSFI's Capital Adequacy Requirements (CAR) Guideline, which governs advanced approaches, the bank calculates a Basel Capital Floor and increases its risk-weighted assets to the extent such floor applies.

(2) Prior periods have been reclassified to conform with current period presentation.

CC2 - RECONCILIATION OF REGULATORY CAPITAL TO BALANCE SHEET

(\$ millions)	LINE #	Balance sheet as in	Under regulatory	Cross	LINE #	Balance sheet as in	Under regulatory	Cross	
		Report to Shareholders	scope of consolidation (1)	Reference (2)		Report to Shareholders	scope of consolidation (1)	Reference (2)	
		Q1 2019	Q1 2019			Q1 2019	Q1 2019		
Assets					Liabilities and Equity				
Cash and Cash Equivalents					Total Deposits				
	1	40,470	40,417		38	532,199	532,199		
Interest Bearing Deposits with Banks					Other Liabilities				
	2	7,609	7,605		39	23,188	22,995		
	3	188,476	179,423		40	21,529	21,529		
Securities					41	30,407	30,407		
Investments in own shares CET1 (if not already netted off paid-in capital on reported balance sheet)	4		-	n	Securities sold but not yet purchased				
Investments in own Additional Tier 1 instruments not derecognized for accounting purposes	5		6	n1	Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities				
Investments in own Tier 2 instruments not derecognized for accounting purposes	6		76	q1	42		19,963	z	
Non-significant investments in the capital and other TLAC-eligible instruments of other financial entities (3)	7		20,722	y	43	87,783	87,783		
Significant investments in deconsolidated subsidiaries and other financial institutions (4)	8		2,002	t+x+a1	Securities lent or sold under repurchase agreement				
Significant investments in capital of other financial institutions reflected in regulatory capital	9		-	h1	Securitization and structured entities' liabilities				
Amount exceeding the 15% threshold	10		484		44	23,969	23,969		
Significant investment in common stock of financials below threshold	11		89	p1	45	84	84		
Goodwill embedded in significant investments	12		-		46	73	70		
Securities Borrowed or Purchased Under Resale Agreements					47		197	f	
Loans					48		296	h	
Residential mortgages	13	120,039	120,039		49		70	j	
Consumer installment and other personal	14	63,241	63,241		50		110	m	
Credit cards	15	8,187	8,187		related to defined-benefit pension fund net assets				
Business and governments	16	207,765	207,550		related to deferred tax assets arising from temporary differences, excluding those realizable through net operating loss carryback				
Allowance for credit losses	17	(1,628)	(1,628)		51		139	d1	
Allowance reflected in Tier 2 regulatory capital	18		248	w	52	33,196	22,796		
Shortfall of provisions to expected loss	19		-	k1	53		-		
Total net loans and acceptances	20	397,604	397,389		54		-		
					55		-	v	
					56	220,229	209,633		
Other Assets					Subordinated Debt				
Derivative instruments	21	21,633	21,630		57	6,820	6,820		
Customers' liability under acceptances	22	21,529	21,529		58		6,676	m1	
Premises and equipment	23	1,971	1,828		Qualifying subordinated debt				
Goodwill	24	6,388	6,388	e	59		144		
Intangible assets	25	2,285	2,285	g	Non qualifying subordinated debt				
Current tax assets	26	1,469	1,431		of which redemption has been announced (in the last month of the quarter)				
Deferred tax assets (5)	27	1,813	1,813		60		-		
Deferred tax assets excluding those arising from temporary differences	28		855	i	61		-		
Deferred tax assets arising from temporary differences	29		1,697	c1	Less: regulatory amortization				
of which Deferred tax assets arising from temporary differences below the threshold	30		1,697		62		144		
of which amount exceeding 15% threshold	31		-	i1	Non qualifying subordinated debt subject to phase out				
Other	32	14,651	13,564		63		-		
Defined-benefit pension fund net assets	33		534	l	Less: amount phased out				
Mortgage servicing rights	34		50		64		144	u	
of which Mortgage servicing rights under the threshold	35		50	b1	Non qualifying subordinated debt after phase out				
of which amount exceeding the 15% threshold	36		-	j1	Equity				
Total Assets	37	806,597	796,001		65	4,340	4,340		
					66		4,050	o1	
(1) Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited.					67		-		
BMO Life Insurance Company (\$10,145 million assets and nominal equity) covers the development and marketing of individual and group life, accident and health insurance and annuity products in Canada. BMO Reinsurance Limited (\$451 million assets and nominal equity) covers the reinsurance of life, health and disability insurance risks as well as property & casualty insurance risks, including catastrophe risks. The business reinsured is written by insurers and reinsurers principally in North America and Europe.					68		290		
(2) Cross reference to CC1 - Composition of Regulatory Capital (pages 3 and 4).					69		-		
(3) Includes synthetic holdings of non-significant capital investments in banking, financial and insurance entities.					70	12,914	12,914	p	
(4) Under Basel III, significant investments in financial services entities that are outside the scope of regulatory consolidation are deducted from a bank's capital using the corresponding deduction approach (e.g. investments in non-common Tier 1 are deducted from a bank's non-common Tier 1 capital) except that investments in common equity capital of a significant investment which represents less than 10% of the bank's CET1 are risk weighted at 250% and are not deducted provided the sum of such investments, deferred tax assets related to timing differences and mortgage servicing rights are less than 15% of the Bank's CET1. Goodwill embedded in significant investments is separated and is shown in the corresponding line below.					71		290		
(5) Deferred tax assets and liabilities are presented on the balance sheet net by legal jurisdiction.					72		-		
					73	308	308	b	
					74	26,599	26,599	c	
					75	3,188	3,188	d	
					76		(280)	k	
					77		3,468		
					78	47,349	47,349		
					Total Liabilities and Equity				
					79	806,597	796,001		

FLOW STATEMENT OF BASEL III REGULATORY CAPITAL

	LINE #	2019 Q1	2018 Q4	2018 Q3	2018 Q2	2018 Q1	2017 Q4
(\$ millions)							
Common Equity Tier 1 Capital							
Opening Balance	1	32,721	31,688	30,793	30,165	30,633	29,604
New capital issues	2	5	26	18	7	48	9
Redeemed capital	3	(90)	(107)	(102)	(488)	(294)	(91)
Gross dividends (deduction)	4	(691)	(657)	(664)	(642)	(645)	(631)
Profit for the quarter (attributable to shareholders of the parent company)	5	1,510	1,695	1,536	1,246	973	1,227
Removal of own credit spread (net of tax)	6	(82)	13	(28)	(48)	80	42
Movements in other comprehensive income							
– Currency translation differences	7	(12)	241	102	878	(959)	814
– Fair value through other comprehensive income securities (1)	8	173	(71)	9	(128)	(126)	10
– Other (2)	9	(69)	(60)	230	69	(2)	71
Goodwill and other intangible assets (deduction, net of related tax liability)	10	(8)	(155)	(37)	(262)	78	(212)
Other, including regulatory adjustments and transitional arrangements							
– Deferred tax assets that rely on future profitability (excluding those arising from temporary differences)	11	122	(65)	4	35	394	(92)
– Prudential valuation adjustments	12	47	(55)	(3)	(34)	(5)	(4)
– Other (3) (4)	13	100	228	(170)	(5)	(10)	(114)
Closing Balance	14	33,726	32,721	31,688	30,793	30,165	30,633
Other non-core Tier 1 (Additional Tier 1) Capital							
Opening Balance	15	4,499	4,037	4,421	4,438	4,475	4,477
New non-core tier 1 (Additional Tier 1) eligible capital issues	16	-	400	-	-	-	-
Redeemed capital	17	(450)	-	(300)	-	-	-
Other, including regulatory adjustments and transitional arrangements (5)	18	72	62	(84)	(17)	(37)	(2)
Closing Balance	19	4,121	4,499	4,037	4,421	4,438	4,475
Total Tier 1 Capital	20	37,847	37,220	35,725	35,214	34,603	35,108
Tier 2 Capital							
Opening Balance	21	6,896	5,708	5,727	6,607	5,488	6,283
New Tier 2 eligible capital issues	22	-	1,119	-	-	1,538	-
Redeemed capital	23	-	-	-	(900)	-	(800)
Amortization adjustments	24	-	-	-	-	-	-
Other, including regulatory adjustments and transitional arrangements (6)	25	46	69	(19)	20	(419)	5
Closing Balance	26	6,942	6,896	5,708	5,727	6,607	5,488
Total Regulatory Capital	27	44,789	44,116	41,433	40,941	41,210	40,596

(1) Q4 2017 represents available-for-sale securities.

(2) Includes: AOCI on pension and other post-employment benefits and on own credit risk financial liabilities designated at fair value.

(3) Includes: Capital deductions for expected loss in excess of allowances, defined benefit pension assets (net of related deferred tax liability) and investment in own shares, changes in contributed surplus and threshold deductions.

(4) Includes: Impact to net income resulting from IFRS 15 retrospective adoption.

(5) Includes: Changes in non-qualifying capital instruments.

(6) Includes: Changes in non-qualifying capital instruments and eligible allowances.

CAPITAL RATIOS FOR SIGNIFICANT BANK SUBSIDIARIES

		2019 Q1	2018 Q4	2018 Q3	2018 Q2
Bank of Montreal Mortgage Corporation - All-in Basis - Basel III (1)					
Common Equity Tier 1 ratio	28	22.0%	21.6%	21.8%	23.5%
Tier 1 ratio	29	22.0%	21.6%	21.8%	23.5%
Total capital ratio	30	22.4%	22.1%	22.3%	24.1%
BMO Harris Bank N.A. - Basel III (2)					
Tier 1 ratio	31	12.0%	12.5%	12.5%	12.8%
Total capital ratio	32	13.1%	13.7%	13.7%	14.0%

(1) All-in capital ratios assume that all Basel III regulatory adjustments are applied effective January 1, 2013 and that the capital value of instruments which no longer qualify as regulatory capital under Basel III rules will be phased out at a rate of 10% per year from January 1, 2013, continuing to January 1, 2022.

(2) Calculated using U.S. Basel III guidelines currently in effect for U.S. regulatory purposes and based on BMO Harris N.A.'s calendar quarter ends: December 2018, September 2018, June 2018, and March 2018.

KM2 - KEY METRICS – TLAC REQUIREMENTS (1)

(\$ millions except as noted)

Q1 2019

1	Total loss-absorbing capacity (TLAC) available	45,491
2	Total RWA at the level of the resolution group	296,987
3	TLAC ratio: TLAC as a percentage of RWA (row 1 / row 2) (%)	15.3 %
4	Leverage ratio exposure measure at the level of the resolution group	902,532
5	TLAC Leverage Ratio: TLAC as a percentage of leverage ratio exposure measure (row 1 / row 4) (%)	5.0 %
6a	Does the subordination exemption in the antepenultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	Yes
6b	Does the subordination exemption in the penultimate paragraph of Section 11 of the FSB TLAC Term Sheet apply?	No
6c	If the capped subordination exemption applies, the amount of funding issued that ranks pari passu with Excluded Liabilities and that is recognized as external TLAC, divided by funding issued that ranks pari passu with Excluded Liabilities and that would be recognized as external TLAC if no cap was applied (%)	n.a.

(1) BMO Financial Group uses the Single Point of Entry approach whereby the parent bank is the single resolution entity on which the resolution measures are applied. KM2 is reported on a consolidated basis excluding insurance subsidiaries.

TLAC1 - TLAC COMPOSITION (1)

(\$ millions except as noted)

Q1 2019

Regulatory capital elements of TLAC and adjustments		
1	Common Equity Tier 1 capital (CET1)	33,726
2	Additional Tier 1 capital (AT1) before TLAC adjustments	4,121
3	AT1 ineligible as TLAC as issued out of subsidiaries to third parties	-
4	Other adjustments	-
5	AT1 instruments eligible under the TLAC framework	4,121
6	Tier 2 capital (T2) before TLAC adjustments	6,942
7	Amortized portion of T2 instruments where remaining maturity > 1 year	-
8	T2 capital ineligible as TLAC as issued out of subsidiaries to third parties	-
9	Other adjustments	-
10	T2 instruments eligible under the TLAC framework	6,942
11	TLAC arising from regulatory capital	44,789
Non-regulatory capital elements of TLAC		
12	External TLAC instruments issued directly by the bank and subordinated to excluded liabilities	-
13	External TLAC instruments issued directly by the bank which are not subordinated to excluded liabilities but meet all other TLAC term sheet requirements	706
14	Of which: amount eligible as TLAC after application of the caps	-
15	External TLAC instruments issued by funding vehicles prior to January 1, 2022	-
16	Eligible ex ante commitments to recapitalize a G-SIB in resolution	-
17	TLAC arising from non-regulatory capital instruments before adjustments	706
Non-regulatory capital elements of TLAC: adjustments		
18	TLAC before deductions	45,495
19	Deductions of exposures between MPE resolution groups that correspond to items eligible for TLAC (not applicable to SPE G-SIBs and D-SIBs)	-
20	Deduction of investments in own other TLAC liabilities	(4)
21	Other adjustments to TLAC	-
22	TLAC available after deductions	45,491
Risk-weighted assets and leverage exposure measure for TLAC purposes		
23	Total risk-weighted assets adjusted as permitted under the TLAC regime	296,987
24	Leverage exposure measure	902,532
TLAC ratios and buffers		
25	TLAC Ratio (as a percentage of risk-weighted assets adjusted as permitted under the TLAC regime)	15.3 %
26	TLAC Leverage Ratio (as a percentage of leverage exposure)	5.0 %
27	CET1 (as a percentage of risk-weighted assets) available after meeting the resolution group's minimum capital and TLAC requirements (2)	n.a.
28	Institution-specific buffer (capital conservation buffer plus countercyclical buffer plus higher loss absorbency, expressed as a percentage of risk-weighted assets)	3.5 %
29	Of which: capital conservation buffer	2.5 %
30	Of which: bank specific countercyclical buffer	0.0 %
31	Of which: D-SIB / G-SIB buffer	1.0 %

(1) BMO Financial Group uses the Single Point of Entry approach whereby the parent bank is the single resolution entity on which the resolution measures are applied. TLAC 1 is reported on a consolidated basis excluding insurance subsidiaries.

(2) Completion of this row is not required by OSFI at this time.

TLAC3 - RESOLUTION ENTITY - CREDITOR RANKING AT LEGAL ENTITY LEVEL (1)

(\$ millions)

		Q1 2019					Sum 1 to 5
		Creditor ranking					
		1 (most junior)	2	3	4	5 (most senior)	
1	Description of creditor ranking	Common shares	Preferred shares	Subordinated debt	Bail-in debt (2)	Other liabilities (3)	
2	Total capital and liabilities net of credit risk mitigation	12,914	4,340	7,007	709	-	24,970
3	Subset of row 2 that are excluded liabilities	-	6	76	4	-	86
4	Total capital and liabilities less excluded liabilities (row 2 minus row 3)	12,914	4,334	6,931	705	-	24,884
5	Subset of row 4 that are potentially eligible as TLAC	12,914	4,334	6,931	705	-	24,884
6	Subset of row 5 with 1 year ≤ residual maturity < 2 years	-	-	-	544	-	544
7	Subset of row 5 with 2 years ≤ residual maturity < 5 years	-	-	-	81	-	81
8	Subset of row 5 with 5 years ≤ residual maturity < 10 years	-	-	5,207	41	-	5,248
9	Subset of row 5 with residual maturity ≥ 10 years, but excluding perpetual securities	-	-	1,724	39	-	1,763
10	Subset of row 5 that is perpetual securities	12,914	4,334	-	-	-	17,248

(1) Instruments are reported at nominal values.

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

(3) Completion of this column is not required by OSFI at this time.

SUMMARY COMPARISON OF ACCOUNTING ASSETS VS. LEVERAGE RATIO EXPOSURE MEASURE (1) (2)

(\$ millions except as noted)

Item	2019	2018	2018	2018
	Q1	Q4	Q3	Q2
1 Total consolidated assets as per published financial statements	806,597	774,048	765,318	743,569
2 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	(10,552)	(9,757)	(9,480)	(9,175)
3 Adjustment for securitized exposures that meet the operational requirements for the recognition of risk transference (3)	(6,543)	-	-	-
4 Adjustment for fiduciary assets recognized on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure	-	-	-	-
5 Adjustments for derivative financial instruments	9,880	3,761	1,506	1,775
6 Adjustment for securities financing transactions (i.e. repo assets and similar secured lending)	1,058	8,347	3,069	2,930
7 Adjustment for off-balance sheet items (i.e. credit equivalent amounts of off-balance sheet exposures)	111,665	108,817	102,792	101,147
8 Other adjustments	(9,573)	(9,110)	(9,320)	(9,152)
9 Leverage Ratio Exposure Measure	902,532	876,106	853,885	831,094

LEVERAGE RATIO COMMON DISCLOSURE (1) (2)

(\$ millions except as noted)

Item	Leverage ratio framework			
	2019	2018	2018	2018
	Q1	Q4	Q3	Q2
On-balance sheet exposures				
1 On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral)	667,174	653,039	629,354	613,128
2 Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework	-	-	-	-
3 (Deductions of receivables assets for cash variation margin provided in derivative transactions)	(3,042)	(2,624)	(3,050)	(2,436)
4 (Asset amounts deducted in determining transitional Tier 1 capital)	(9,573)	(9,110)	(9,320)	(9,152)
5 Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 to 4)	654,559	641,305	616,984	601,540
Derivative exposures				
6 Replacement cost associated with all derivative transactions (4)	14,224	6,515	6,169	7,332
7 Add-on amounts for potential future exposure associated with all derivative transactions (5)	22,674	27,114	23,943	24,214
8 (Exempted central counterparty-leg of client cleared trade exposures)	(2,347)	(1,044)	(751)	(751)
9 Adjusted effective notional amount of written credit derivatives	1,921	1,200	142	123
10 (Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(1,921)	(1,200)	(142)	(123)
11 Total derivative exposures (sum of lines 6 to 10)	34,551	32,585	29,361	30,795
Securities financing transaction exposures				
12 Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	101,314	95,159	103,311	95,313
13 (Netted amounts of cash payables and cash receivables of gross SFT assets)	(5,107)	(7,675)	(3,591)	(3,636)
14 Counterparty credit risk (CCR) exposure for SFTs	5,550	5,914	5,028	5,935
15 Agent transaction exposures	-	-	-	-
16 Total securities financing transaction exposures (sum of lines 12 to 15)	101,757	93,398	104,748	97,612
Other off-balance sheet exposures				
17 Off-balance sheet exposure at gross notional amount	353,732	343,144	326,819	322,633
18 (Adjustments for conversion to credit equivalent amounts)	(242,067)	(234,326)	(224,027)	(221,486)
19 Off-balance sheet items (sum of lines 17 and 18)	111,665	108,818	102,792	101,147
Capital and Total Exposures				
20 Tier 1 capital	37,847	37,220	35,725	35,214
21 Total Exposures (sum of lines 5, 11, 16 and 19)	902,532	876,106	853,885	831,094
Leverage Ratios				
22 Basel III leverage ratio	4.2%	4.2%	4.2%	4.2%

(1) Q1 2019 results are disclosed in accordance with OSFI's new Leverage Ratio Disclosure Requirements guideline. Prior periods have been reclassified to conform with current period presentation.

(2) Prior periods have not been restated with the adoption of IFRS 15.

(3) Represents the reduction of the leverage ratio exposure measure due to the exclusion of securitized exposures that meet the operational requirement for the recognition of risk transference.

(4) Effective Q1 2019, represents replacement cost after applying alpha equal to 1.4.

(5) Effective Q1 2019, represents potential future exposure after applying alpha equal to 1.4.

OV1 - OVERVIEW OF RWA (1) (2)

(\$ millions)		RWA (2)		Minimum capital requirements
		Q1 2019	Q4 2018	Q1 2019
		a	b	c
1	Credit risk (excluding counterparty credit risk (CCR))	219,367	215,193	17,549
2	Of which standardized approach (SA)	40,403	39,288	3,232
3	Of which internal rating-based (IRB) approach	178,964	175,905	14,317
4	Counterparty credit risk	15,278	13,481	1,222
5	Of which standardized approach for counterparty credit risk (SA-CCR) (4)	6,227	4,746	498
6	Of which internal model method (IMM)	-	-	-
6a	Of which comprehensive approach for credit risk mitigation (for SFTs)	2,594	3,171	208
6b	Of which CVA capital charge	5,889	4,900	471
6c	Of which exposures to QCCP	568	664	45
7	Equity positions in banking book under market-based approach	-	-	-
8	Equity investments in funds – look-through approach	89	87	7
9	Equity investments in funds – mandate-based approach	831	731	66
10	Equity investments in funds – fall-back approach	161	118	13
11	Settlement risk	-	15	-
12	Securitization exposures in banking book	2,448	2,404	196
12a	Of which subject to the transitional arrangement (5)	(1,304)	-	(104)
13	Of which securitization internal ratings-based approach (SEC-IRBA) (6)	3,192	1,860	255
14	Of which securitization external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA) (7)	226	544	18
15	Of which securitization standardized approach (SEC-SA)	334	-	27
16	Market risk	14,820	13,532	1,186
17	Of which standardized approach (SA) (8)	211	258	17
18	Of which internal model approaches (IMM)	14,609	13,274	1,169
19	Operational risk	35,624	35,205	2,850
20	Of which Basic Indicator Approach	50	49	4
21	Of which Standardized Approach	2,032	2,019	163
22	Of which Advanced Measurement Approach	33,542	33,137	2,683
23	Amounts below the thresholds for deduction (subject to 250% risk weight)	8,369	8,471	670
24	Floor adjustment (9)	-	-	-
25	Total	296,987	289,237	23,759

(1) Risk weighted assets (RWA) were \$297.0 billion at January 31, 2019, up from \$289.2 billion at October 31, 2018, driven by strong business growth, regulatory changes, including the fully phased-in credit valuation adjustment, partially offset by methodology and asset quality changes.

(2) On October 30, 2018, OSFI released the final version of the CAR Guideline for implementation in Q1 2019. The main revisions relate to the domestic implementation of the standardized approach to counterparty credit risk (SA-CCR), capital requirements for bank exposures to central counterparties (CCPs) and the securitization framework. The Guideline has been implemented prospectively effective Q1 2019.

(3) The scaling factor is applied to the risk-weighted asset amounts as applicable.

(4) Q1 2019 reflects RWA calculated under SA-CCR while Q4 2018 reflects CEM.

(5) OSFI has provided grandfathering of the Revised Securitization capital treatment for one year through a negative adjustment to risk-weighted assets that effectively eliminates the initial increase in risk weights.

(6) Q4 2018 reflects SFA.

(7) Q4 2018 reflects RBA.

(8) Standardized approach market risk RWA reflects specific interest rate risk on securitization positions.

(9) Under OSFI's Capital Adequacy Requirements (CAR) Guideline, which governs advanced approaches, the bank calculates a Capital Floor and may be required to increase its risk-weighted assets if the Capital Floor applies. Effective Q2 2018, OSFI implemented the Basel II Capital Floor. Based on these requirements, there was no capital floor applicable for Q1 2019 and Q4 2018.

COMMON EQUITY TIER 1 (CET 1) CAPITAL RISK-WEIGHTED ASSETS BY OPERATING GROUPS

(\$ millions except as noted)	LINE #	2019 Q1	2018 Q4	2018 Q3	2018 Q2	2018 Q1	2017 Q4
Personal and Commercial Banking	1	179,421	178,313	173,039	170,545	163,039	165,005
Wealth Management	2	19,239	19,069	18,560	17,538	16,778	16,276
BMO Capital Markets	3	87,246	80,606	74,663	73,875	69,296	68,131
Corporate Services, including Technology and Operations, plus excess of Basel Capital Floor RWA over Basel III RWA	4	11,081	11,249	11,244	11,053	21,464	20,054
Total Common Equity Tier 1 Capital Risk-Weighted Assets	5	296,987	289,237	277,506	273,011	270,577	269,466

LI1 - DIFFERENCES BETWEEN ACCOUNTING AND REGULATORY SCOPES OF CONSOLIDATION AND MAPPING OF FINANCIAL STATEMENTS WITH REGULATORY RISK CATEGORIES

		Q1 2019						
		Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation (1)	Carrying values of items:				
LINE #	a			b	Subject to credit risk framework	Subject to counterparty credit risk framework	Subject to the securitization framework	Subject to the market risk framework
(\$ millions)	#	a	b	c	d	e	f	g
ASSETS								
Cash and Cash Equivalents	1	40,470	40,417	37,925	2,492	-	-	-
Interest Bearing Deposits with Banks	2	7,609	7,605	7,605	-	-	-	-
Securities	3	188,476	179,423	76,898	-	834	101,379	312
Securities Borrowed or Purchased Under Resale Agreements	4	100,699	100,699	-	100,699	-	-	-
Loans								
Residential mortgages	5	-	-	-	-	-	-	-
Consumer instalment and other personal	6	120,039	120,039	118,981	-	1,024	-	34
Credit cards	7	63,241	63,241	61,305	-	45	-	1,891
Businesses and governments	8	8,187	8,187	1,366	-	2,204	-	4,617
Allowance for credit losses	9	207,765	207,550	195,948	2,521	9,081	-	-
	10	(1,628)	(1,628)	(1,416)	-	(212)	-	-
Other Assets								
Derivative instruments	11	21,633	21,630	-	21,630	-	19,659	-
Customers' liability under acceptances	12	21,529	21,529	21,529	-	-	-	-
Premises and equipment	13	1,971	1,828	1,828	-	-	-	-
Goodwill	14	6,388	6,388	-	-	-	-	6,388
Intangible assets	15	2,285	2,285	-	-	-	-	2,285
Current tax assets	16	1,469	1,431	1,431	-	-	-	-
Deferred tax assets	17	1,813	1,813	1,558	-	-	-	255
Other Total	18	14,651	13,564	12,822	-	-	209	533
Total assets	19	806,597	796,001	537,780	127,342	12,976	121,247	16,315
LIABILITIES								
Deposits	20	532,199	532,199	-	-	-	15,136	517,063
Other Liabilities								
Derivative instruments	21	23,188	22,995	-	22,995	-	21,298	-
Acceptances	22	21,529	21,529	-	-	-	-	21,529
Securities sold but not yet purchased	23	30,407	30,407	-	-	-	30,407	-
Securities lent or sold under repurchase agreements	24	87,783	87,783	-	87,783	-	-	-
Securitization and liabilities related to structured entities	25	23,969	23,969	-	-	-	-	23,969
Current tax liabilities	26	84	84	-	-	-	-	84
Deferred tax liabilities	27	73	70	-	-	-	-	70
Other	28	33,196	22,796	-	-	-	-	22,796
Subordinated Debt	29	6,820	6,820	-	-	-	-	6,820
Total liabilities	30	759,248	748,652	-	110,778	-	66,841	592,331

(1) Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$10,145 million assets and nominal equity) covers the development and marketing of individual and group life, accident and health insurance and annuity products in Canada. BMO Reinsurance Limited (\$451 million assets and nominal equity) covers the reinsurance of life, health and disability insurance risks as well as property & casualty insurance risks, including catastrophe risks. The business reinsured is written by insurers and reinsurers principally in North America and Europe.

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

(\$ millions)		Q1 2019				
		Total	Items subject to:			
			Credit risk framework	Counterparty credit risk framework	Securitization framework	Market risk framework
a	b	c	d	e		
1	Asset carrying value amount under scope of regulatory consolidation (as per template LI1) (1)	779,686	537,780	127,342	12,976	121,247
2	Liabilities carrying value amount under regulatory scope of consolidation (as per template LI1) (1)	156,321	-	110,778	-	66,841
3	Total net amount under regulatory scope of consolidation	623,365	537,780	16,564	12,976	54,406
4	Off-balance sheet amounts	242,537	169,253	60,986	12,298	-
5	Differences due to different netting rules, other than those already included in row 2	20,151	-	20,151	-	-
6	Differences due to consideration of provisions	1,869	1,657	-	212	-
7	Exposures related to liability repo-style transactions	175,566	-	175,566	-	-
8	Potential future exposure on derivatives	15,766	-	15,766	-	-
9	Differences due to consideration of CRM	(225,975)	(55)	(225,270)	(650)	-
10	Exposure amounts considered for regulatory purposes (2)	853,279	708,635	63,763	24,836	54,406

(1) Carrying value under scope of regulatory consolidation (column b from LI1) less amounts not subject to capital requirements or subject to deduction from capital (column g from LI1).

(2) Exposure amounts considered for regulatory purposes represent the exposure at default amounts post-CRM and post-CCF, with the exception of the Market Risk framework that is reported at accounting carrying value.

Commentary

The table above illustrates the main sources of differences between the financial statements' carrying value amounts and the exposure at default post-CRM and post-CCF used for regulatory purposes.

Off-balance sheet amounts include credit exposures on committed undrawn amounts of loans and other off-balance sheet arrangements, other than derivatives, such as undrawn commitments related to Standby Letters of Credit and Documentary Credits.

Differences due to different netting rules relate to the grossing up of derivatives to reflect legally enforceable bilateral netting arrangement recognized for regulatory capital purposes.

Differences due to consideration of provisions relate to the re-inclusion of general and specific provisions in the carrying amount of exposures in the AIRB approach.

Exposures related to liability repo-style transactions relate to the grossing up of liability repo-style transactions.

Potential future exposure consists of the add-on factors for the expected volatility of the price, rate or index underlying derivative instruments.

Differences due to consideration of CRM consist of the application of credit risk mitigation techniques to arrive at the net exposure at default in accordance with OSFI's Capital Adequacy Requirements Guidelines, Chapter 5, Credit Risk Mitigation.

CR1 - CREDIT QUALITY OF ASSETS (1)

(\$ millions)	LINE #	Q1 2019			
		Gross carrying values of		Allowances / impairments	Net values (a + b - c)
		Defaulted exposures (2) (3)	Non-defaulted exposures		
		a	b	c	d
Loans	1	2,188	396,941	1,416	397,713
Debt securities	2	-	72,682	3	72,679
Off-balance sheet exposures	3	331	162,957	248	163,040
Total	4	2,519	632,580	1,667	633,432

CR1 - CREDIT QUALITY OF ASSETS (1)

(\$ millions)		Q4 2018			
		Gross carrying values of		Allowances / impairments	Net values (a + b - c)
		Defaulted exposures (2) (3)	Non-defaulted exposures		
		a	b	c	d
Loans	5	2,038	383,712	1,465	384,285
Debt securities	6	-	67,599	2	67,597
Off-balance sheet exposures	7	241	154,558	229	154,570
Total	8	2,279	605,869	1,696	606,452

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

(2) Exposures are considered to be in default when they are 90 days past due with the following exceptions: (i) credit card loans which are immediately written off when principal or interest payments are 180 days past due; and (ii) residential mortgages guaranteed by the Government of Canada that are less than one year past due.

(3) There are no defaulted debt securities.

CR2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)

(\$ millions)

Q1 2019

a

1	Defaulted loans and debt securities at end of the previous financial reporting period	2,038
2	Loans and debt securities that have defaulted since the last reporting period	432
3	Returned to non-defaulted status	(129)
4	Amounts written off	(119)
5	Other charges	(34)
6	Defaulted loans and debt securities at end of the reporting period	2,188

CR2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (1) (2)

(\$ millions)

Q4 2018

a

1	Defaulted loans and debt securities at end of the previous financial reporting period	2,169
2	Loans and debt securities that have defaulted since the last reporting period	417
3	Returned to non-defaulted status	(174)
4	Amounts written off	(191)
5	Other charges	(183)
6	Defaulted loans and debt securities at end of the reporting period	2,038

(1) There are no defaulted debt securities.

(2) Defaulted balances exclude off-balance sheet exposures.

**CR3 - CREDIT RISK MITIGATION
TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)**

(\$ millions)

		Q1 2019				
		Unsecured exposures: carrying amount	Exposures to be secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
		a	b1	b	d	f
1	Loans	336,560	61,153	-	50,593	7
2	Debt securities	72,679	-	-	-	-
3	Total	409,239	61,153	-	50,593	7
4	Of which: defaulted	1,663	154	-	149	-

**CR3 - CREDIT RISK MITIGATION
TECHNIQUES - OVERVIEW (1) (2) (3) (4) (5)**

(\$ millions)

		Q4 2018				
		Unsecured exposures: carrying amount	Exposures to be secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
		a	b1	b	d	f
1	Loans	325,209	59,076	-	50,801	22
2	Debt securities	67,597	-	-	-	-
3	Total	392,806	59,076	-	50,801	22
4	Of which: defaulted	1,513	155	-	149	-

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

(2) There are no defaulted debt securities.

(3) Secured exposures include exposures where credit risk mitigation techniques are used to reduce capital requirement in accordance with OSFI's Capital Adequacy Requirements Guideline, Chapter 5, Credit Risk Mitigation. Where collateral is reflected in the risk parameters (PDs and LGDs) for AIRB exposures and risk weights for exposures under standardized approach, the carrying amount is reported as an unsecured exposure.

(4) Loans and Debt Securities balances are net of allowance for credit losses on performing loans and impaired loans (excluding those related to off-balance sheet instruments and undrawn commitments).

(5) Defaulted balances are net of allowance for credit losses on impaired loans, excluding off-balance sheet instruments and undrawn commitments.

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK MITIGATION (CRM) EFFECTS (1) (2)

(\$ millions)

Asset classes		Q1 2019					
		Exposures before CCF and CRM		Exposures post CCF and CRM		RWA and RWA density	
		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density
		a	b	c	d	e	f
1	Sovereigns and their central banks	11	7	11	4	-	0.00%
2	Non-central government public sector entities	165	7	165	3	34	20.39%
3	Multilateral development banks	-	-	-	-	-	0.00%
4	Banks	3	186	3	90	19	20.00%
5	Securities firms	10	46	10	15	5	20.00%
6	Corporates	17,513	8,586	17,513	3,391	20,719	99.12%
7	Regulatory retail portfolios	9,018	3,936	9,018	-	6,556	72.69%
8	Secured by residential property	4,403	188	4,403	76	1,715	38.28%
9	Secured by commercial real estate	675	128	675	62	736	100.00%
10	Equity	1,603	329	1,603	164	1,120	63.38%
11	Defaulted exposures	600	42	600	19	849	137.10%
12	Higher-risk categories (3)	127	183	127	89	323	150.00%
13	Other assets	8,305	-	8,305	-	8,327	100.26%
14	Total	42,433	13,638	42,433	3,913	40,403	87.17%

CR4 - STANDARDIZED APPROACH - CREDIT RISK EXPOSURE AND CREDIT RISK MITIGATION (CRM) EFFECTS (1) (2)

(\$ millions)

Asset classes		Q4 2018					
		Exposures before CCF and CRM		Exposures post CCF and CRM		RWA and RWA density	
		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA	RWA density
		a	b	c	d	e	f
1	Sovereigns and their central banks	12	7	12	3	-	0.00%
2	Non-central government public sector entities	150	23	150	12	32	20.00%
3	Multilateral development banks	-	-	-	-	-	0.00%
4	Banks	59	207	59	80	28	20.00%
5	Securities firms	7	51	7	18	5	20.00%
6	Corporates	16,450	8,850	16,450	3,450	19,722	99.11%
7	Regulatory retail portfolios	9,131	3,923	9,131	4	6,687	73.19%
8	Secured by residential property	4,408	192	4,408	74	1,728	38.54%
9	Secured by commercial real estate	694	128	694	62	756	100.00%
10	Equity	1,749	290	1,749	145	1,153	60.88%
11	Defaulted exposures	468	26	468	11	647	135.12%
12	Higher-risk categories (3)	96	129	96	65	241	150.00%
13	Other assets	8,800	-	8,800	-	8,289	94.20%
14	Total	42,024	13,826	42,024	3,924	39,288	85.51%

(1) Credit risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement risk and amounts below the thresholds for deduction subject to 250% risk weight.

(2) Exposure amounts are net of stage 3 allowance for credit losses.

(3) Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

CR5 - STANDARDIZED APPROACH - EXPOSURES BY ASSET CLASSES AND RISK WEIGHTS (1) (2) (3)

(\$ millions)		Q1 2019									Total credit exposures amount (post CCF and post-CRM)	
		Risk Weight										
		0%	10%	20%	35%	50%	75%	100%	150%	Others		
		a	b	c	d	e	f	g	h	i		j
Asset classes												
1	Sovereigns and their central banks	15	-	-	-	-	-	-	-	-	-	15
2	Non-central government public sector entities	-	-	166	-	2	-	-	-	-	-	168
3	Multilateral development banks	-	-	-	-	-	-	-	-	-	-	-
4	Banks	-	-	93	-	-	-	-	-	-	-	93
5	Securities firms	-	-	25	-	-	-	-	-	-	-	25
6	Corporates	-	-	217	-	22	-	20,665	-	-	-	20,904
7	Regulatory retail portfolios	435	-	-	-	-	8,117	466	-	-	-	9,018
8	Secured by residential property	-	-	6	4,105	-	364	4	-	-	-	4,479
9	Secured by commercial real estate	-	-	-	-	-	-	737	-	-	-	737
10	Equity	474	-	296	-	-	-	997	-	-	-	1,767
11	Defaulted exposures	-	-	17	-	-	-	116	486	-	-	619
12	Higher-risk categories (4)	-	-	-	-	-	-	-	216	-	-	216
13	Other assets	1,975	-	1,388	-	-	-	4,672	-	270	-	8,305
14	Total	2,899	-	2,208	4,105	24	8,481	27,657	702	270	-	46,346

CR5 - STANDARDIZED APPROACH - EXPOSURES BY ASSET CLASSES AND RISK WEIGHTS (1) (2) (3)

(\$ millions)		Q4 2018									Total credit exposures amount (post CCF and post-CRM)	
		Risk Weight										
		0%	10%	20%	35%	50%	75%	100%	150%	Others		
		a	b	c	d	e	f	g	h	i		j
Asset classes												
1	Sovereigns and their central banks	15	-	-	-	-	-	-	-	-	-	15
2	Non-central government public sector entities	-	-	162	-	-	-	-	-	-	-	162
3	Multilateral development banks	-	-	-	-	-	-	-	-	-	-	-
4	Banks	-	-	139	-	-	-	-	-	-	-	139
5	Securities firms	-	-	25	-	-	-	-	-	-	-	25
6	Corporates	-	-	212	-	17	-	19,671	-	-	-	19,900
7	Regulatory retail portfolios	409	-	-	-	-	8,165	561	-	-	-	9,135
8	Secured by residential property	-	-	10	4,072	-	398	2	-	-	-	4,482
9	Secured by commercial real estate	-	-	-	-	-	-	756	-	-	-	756
10	Equity	476	-	413	-	-	-	1,005	-	-	-	1,894
11	Defaulted exposures	-	-	16	-	-	-	102	361	-	-	479
12	Higher-risk categories (4)	-	-	-	-	-	-	-	161	-	-	161
13	Other assets	2,430	-	1,404	-	-	-	4,701	-	265	-	8,800
14	Total	3,330	-	2,381	4,072	17	8,563	26,798	522	265	-	45,948

(1) Credit risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement risk and amounts below the thresholds for deduction subject to 250% risk weight.

(2) Exposure amounts are net of stage 3 allowance for credit losses.

(3) Credit assessments by external credit rating agencies, including S&P and Moody's, are used to determine standardized risk weights based on guidelines issued by OSFI.

(4) Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

CR6 - IRB - CREDIT EXPOSURE BY PORTFOLIO AND PD RANGE (CONTINUED) (1) (2) (3)

(\$ millions except as noted)

Risk Profile	BMO Rating	PD Scale (%)	Moody's Investors Service implied equivalent	Standard & Poor's implied equivalent	LINE #	Q1 2019											
						Original on-balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF (4)	EAD post CRM and post-CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years) (8)	RWA	RWA density	EL	Provisions (9)
						a	b	c	d	e	f	g	h	i	j	k	l
Corporate																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	56	36,061	74,145	50.44 %	80,903	0.08 %	5,598	35.32 %	2.27	16,691	20.63 %	24	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	57	26,946	37,972	49.03 %	43,478	0.20 %	5,003	37.79 %	2.42	16,434	37.80 %	33	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	58	38,532	35,645	49.21 %	54,979	0.32 %	8,941	36.66 %	2.53	25,676	46.70 %	65	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	59	36,895	28,190	46.16 %	48,477	0.62 %	8,240	35.64 %	2.48	28,988	59.80 %	107	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	60	38,253	29,077	46.84 %	49,743	1.22 %	12,328	36.24 %	2.48	37,931	76.25 %	220	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	61	5,563	5,157	43.67 %	7,302	3.64 %	3,071	31.49 %	1.95	6,342	86.85 %	83	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	62	1,279	679	58.96 %	1,507	14.02 %	800	32.28 %	1.71	2,166	143.73 %	69	
Default	Default	100.00 (Default)	C	C to D	63	826	325	99.99 %	1,134	100.00 %	86	35.82 %	2.57	3,099	273.28 %	240	
Sub-total					64	184,355	211,190		287,523		44,377			137,327		841	240
Sovereign																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	65	107,760	8,112	61.53 %	112,952	0.02 %	3,104	4.24 %	2.58	3,092	2.74 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	66	740	406	74.16 %	898	0.20 %	321	19.92 %	1.20	137	15.26 %	-	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	67	217	279	50.52 %	345	0.32 %	125	20.49 %	1.75	82	23.77 %	-	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	68	194	50	49.33 %	202	0.59 %	75	24.14 %	1.55	73	36.14 %	-	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	69	914	56	42.32 %	914	0.97 %	99	33.36 %	3.00	696	76.15 %	3	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	70	34	14	48.90 %	37	3.44 %	35	45.08 %	1.30	47	127.03 %	1	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	71	1	-	0.00 %	-	0.00 %	2	0.00 %	-	-	0.00 %	-	
Default	Default	100.00 (Default)	C	C to D	72	-	-	0.00 %	-	0.00 %	-	0.00 %	-	-	0.00 %	-	
Sub-total					73	109,860	8,917		115,348		3,761			4,127		6	-
Bank																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	74	11,287	4,444	77.80 %	16,109	0.07 %	178	16.67 %	1.20	1,188	7.37 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	75	5,045	3,438	59.95 %	6,676	0.19 %	87	12.99 %	1.50	697	10.44 %	2	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	76	2,267	2,063	63.07 %	3,287	0.32 %	77	14.72 %	0.75	459	13.96 %	2	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	77	1,298	878	60.58 %	1,610	0.55 %	53	13.86 %	0.70	292	18.14 %	1	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	78	1,967	168	86.66 %	1,686	1.07 %	50	15.23 %	0.39	479	28.41 %	3	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	79	57	1	51.60 %	53	3.02 %	15	14.82 %	0.14	18	33.96 %	-	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	80	-	-	100.00 %	-	14.66 %	1	30.00 %	1.00	-	0.00 %	-	
Default	Default	100.00 (Default)	C	C to D	81	-	-	0.00 %	-	0.00 %	-	0.00 %	-	-	0.00 %	-	
Sub-total					82	21,921	10,992		29,421		461			3,133		10	-
Total (all wholesale portfolios)					83	316,136	231,099		432,292		48,599			144,587		857	240

(1) Credit risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement risk and amounts below the thresholds for deduction subject to 250% risk weight.

(2) Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

(3) PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

(4) Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure preconversion factor.

(5) Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

(6) Obligor count for Wholesale portfolios is at the borrower level.

(7) Calculated as the obligor LGD or guarantor, where applicable, weighted by EAD.

(8) Calculated as the effective maturity in years weighted by EAD.

(9) Includes stage 3 allowances and partial write-offs.

CR6 - IRB - CREDIT EXPOSURE BY PORTFOLIO AND PD RANGE (CONTINUED) (1) (2) (3)

(\$ millions except as noted)

Risk Profile	BMO Rating	PD Scale (%)	Moody's Investors Service implied equivalent	Standard & Poor's implied equivalent	LINE #	Q4 2018											
						Original on-balance sheet gross exposure	Off-balance sheet exposures pre-CCF	Average CCF (4)	EAD post CRM and post-CCF	Average PD (5)	Number of obligors (6)	Average LGD (7)	Average maturity (years) (8)	RWA	RWA density	EL	Provisions (9)
						a	b	c	d	e	f	g	h	i	j	k	l
Corporate																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	56	33,904	71,858	49.85 %	76,384	0.08 %	5,499	35.28 %	2.21	16,097	21.07 %	22	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	57	24,088	35,589	49.47 %	40,204	0.20 %	4,902	37.73 %	2.48	15,836	39.39 %	31	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	58	35,523	33,948	49.16 %	50,999	0.32 %	8,852	36.39 %	2.47	23,659	46.39 %	60	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	59	35,093	27,744	46.75 %	46,631	0.66 %	8,034	36.10 %	2.46	29,290	62.81 %	112	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	60	37,629	27,247	46.83 %	49,010	1.25 %	12,227	36.83 %	2.54	39,077	79.73 %	225	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	61	5,533	5,501	48.42 %	7,203	3.65 %	3,119	32.66 %	2.07	6,583	91.39 %	87	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	62	1,462	793	51.95 %	1,736	14.29 %	825	32.06 %	1.62	2,483	143.06 %	81	
Default	Default	100.00 (Default)	C	C to D	63	907	266	99.99 %	1,161	100.00 %	451	39.21 %	2.64	3,459	298.05 %	270	
Sub-total					64	174,139	202,946		273,328		43,909			136,484		888	270
Sovereign																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	65	105,767	7,799	59.56 %	110,569	0.02 %	2,956	3.99 %	2.49	2,980	2.70 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	66	672	389	73.83 %	926	0.20 %	307	21.15 %	1.18	149	16.07 %	-	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	67	218	367	53.86 %	335	0.34 %	126	21.81 %	1.78	88	26.39 %	-	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	68	1,520	30	32.85 %	1,514	0.63 %	83	2.19 %	1.31	44	2.92 %	-	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	69	124	35	42.93 %	117	1.09 %	93	39.28 %	1.80	93	79.92 %	1	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	70	41	4	42.71 %	39	4.33 %	42	31.03 %	1.58	39	99.26 %	1	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	71	-	-	0.00 %	-	0.00 %	1	0.00 %	-	-	0.00 %	-	
Default	Default	100.00 (Default)	C	C to D	72	-	-	0.00 %	-	0.00 %	-	0.00 %	-	-	0.00 %	-	
Sub-total					73	108,342	8,624		113,500		3,608			3,393		4	-
Bank																	
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	74	12,226	3,918	77.60 %	15,705	0.07 %	189	24.64 %	1.11	1,833	11.67 %	2	
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	75	2,813	2,692	62.46 %	4,494	0.19 %	82	16.42 %	0.73	519	11.55 %	1	
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	76	1,151	2,131	61.37 %	2,429	0.32 %	72	16.23 %	0.61	394	16.24 %	1	
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	77	1,390	634	62.17 %	1,765	0.55 %	56	13.73 %	0.53	292	16.52 %	1	
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	78	1,832	32	98.38 %	1,479	1.16 %	47	15.20 %	0.34	421	28.49 %	3	
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	79	63	3	91.03 %	61	3.31 %	13	14.91 %	0.17	22	35.91 %	-	
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	80	-	-	0.00 %	-	0.00 %	-	0.00 %	-	-	0.00 %	-	
Default	Default	100.00 (Default)	C	C to D	81	-	-	0.00 %	-	0.00 %	-	0.00 %	-	-	0.00 %	-	
Sub-total					82	19,475	9,410		25,933		459			3,481		8	-
Total (all wholesale portfolios)					83	301,956	220,980		412,761		47,976			143,358		900	270

(1) Credit risk excludes Counterparty Credit Risk, Securitization, Equity Investment in Funds, Settlement risk and amounts below the thresholds for deduction subject to 250% risk weight.

(2) Columns "a" and "b" are grouped by the obligor's PD and columns "d" onwards are grouped by the guarantor, where applicable.

(3) PD bands in the table are as prescribed in revised Pillar 3 guidance and used for comparative purposes across banks.

(4) Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure preconversion factor.

(5) Calculated as the obligor PD or guarantor PD, where applicable, weighted by EAD.

(6) Obligor count for Wholesale portfolios is at the borrower level.

(7) Calculated as the obligor LGD or guarantor, where applicable, weighted by EAD.

(8) Calculated as the effective maturity in years weighted by EAD.

(9) Includes stage 3 allowances and partial write-offs.

CR7 - IRB - EFFECT ON RWA OF CREDIT DERIVATIVES USED AS CRM TECHNIQUES

(\$ millions)

		Q1 2019	
		Pre-credit Derivatives RWA	Actual RWA
		a	b
Portfolio			
1	Corporate - AIRB	25	16
2	Sovereign - AIRB	-	-
3	Bank - AIRB	-	-
4	Total	25	16

CR7 - IRB - EFFECT ON RWA OF CREDIT DERIVATIVES USED AS CRM TECHNIQUES

(\$ millions)

		Q4 2018	
		Pre-credit Derivatives RWA	Actual RWA
		a	b
Portfolio			
1	Corporate - AIRB	43	26
2	Sovereign - AIRB	-	-
3	Bank - AIRB	-	-
4	Total	43	26

CR8 - RWA FLOW STATEMENTS OF CREDIT RISK AND COUNTERPARTY CREDIT RISK EXPOSURES

(\$ millions)

	Q1 2019		
	Credit risk, of which		Counterparty credit risk (6)
	AIRB	Standardized	
a	b	c	
1 RWA as at beginning of reporting period (1)	175,905	39,288	13,481
2 Asset size (2)	9,195	1,126	(1,727)
3 Asset quality (3)	(2,443)	62	(74)
4 Model updates (4)	-	-	-
5 Methodology and policy (5)	(3,438)	-	3,558
6 Acquisitions and disposals	-	-	-
7 Foreign exchange movements	(255)	(73)	40
8 Other	-	-	-
9 RWA as at end of reporting period	178,964	40,403	15,278

CR8 - RWA FLOW STATEMENTS OF CREDIT RISK AND COUNTERPARTY CREDIT RISK EXPOSURES

(\$ millions)

	Q4 2018		
	Credit risk, of which		Counterparty credit risk (6)
	AIRB	Standardized	
a	b	c	
1 RWA as at beginning of reporting period (1)	169,612	38,071	12,978
2 Asset size (2)	6,497	911	28
3 Asset quality (3)	(2,206)	(96)	(301)
4 Model updates (4)	(29)	-	-
5 Methodology and policy (5)	866	-	135
6 Acquisitions and disposals	-	49	572
7 Foreign exchange movements	1,165	353	69
8 Other	-	-	-
9 RWA as at end of reporting period	175,905	39,288	13,481

(1) Credit risk excludes Securitization, Equity Investment in Funds, Settlement risk and amounts below the thresholds for deduction subject to 250% risk weight.

(2) Asset size includes organic changes in book size and composition (including new business and maturing loans).

(3) Asset quality captures the quality of book changes caused by experience such as underlying customer behaviour or demographics, including changes through model calibrations/realignments.

(4) Model updates includes model implementation, change in model scope or any change to address model malfunctions.

(5) Methodology and policy includes methodology changes to the calculations driven by regulatory policy changes, such as new or revised regulation.

(6) Counterparty credit risk includes RWA for derivatives, SFTs, trades cleared through central counterparties and CVA adjustment.

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1)

LINE #	Q1 2019				Q4 2018				Q3 2018				
	Standardized		AIRB		Standardized		AIRB		Standardized		AIRB		
	EAD post CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	EAD post CRM and post-CCF	Of which exposure amount covered by guarantees or credit derivatives	
Corporate (incl specialized lending and SMEs treated as corporate)	1	22,182	183	287,523	10,037	21,002	178	273,328	9,592	20,134	166	259,499	8,487
Sovereign	2	183	-	115,348	395	178	-	113,500	330	162	-	108,424	270
Bank	3	119	-	29,421	1,791	164	-	25,933	660	185	-	24,468	717
Total Wholesale	4	22,484	183	432,292	12,223	21,344	178	412,761	10,582	20,481	166	392,391	9,474
Residential mortgages excluding home equity line of credits (HELOCs)	5	4,450	18	102,980	45,233	4,376	10	102,209	46,233	4,218	13	101,899	47,205
HELOCs	6	228	-	45,384	-	225	-	45,158	-	243	-	44,793	-
Other retail	7	2,478	437	35,223	1,882	2,724	422	34,867	1,952	2,881	435	34,808	2,038
Qualifying revolving retail	8	-	-	36,462	-	-	-	36,499	-	-	-	35,648	-
Retail SMEs	9	6,634	-	5,776	4	6,585	-	5,741	6	6,403	-	5,582	5
Total Retail	10	13,790	455	225,825	47,119	13,910	432	224,474	48,191	13,745	448	222,730	49,248
Other assets	11	8,305	-	-	-	8,800	-	-	-	8,867	-	-	-
Equity	12	1,767	-	-	-	1,894	-	-	-	1,836	-	-	-
Total Bank	13	46,346	638	658,117	59,342	45,948	610	637,235	58,773	44,929	614	615,121	58,722

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION

LINE #	Q1 2019				Q4 2018				Q3 2018				
	Canada	U.S.	Other	Total	Canada	U.S.	Other	Total	Canada	U.S.	Other	Total	
Corporate (incl specialized lending and SMEs treated as corporate)	14	133,840	168,723	7,142	309,705	128,517	158,498	7,315	294,330	123,331	148,236	8,066	279,633
Sovereign	15	31,595	68,202	15,734	115,531	31,795	71,150	10,733	113,678	33,621	64,301	10,664	108,586
Bank	16	4,853	6,626	18,061	29,540	1,613	9,106	15,378	26,097	4,049	6,220	14,384	24,653
Total Wholesale	17	170,288	243,551	40,937	454,776	161,925	238,754	33,426	434,105	161,001	218,757	33,114	412,872
Residential mortgages excluding home equity line of credits (HELOCs)	18	96,241	11,189	-	107,430	95,338	11,247	-	106,585	95,155	10,962	-	106,117
HELOCs	19	38,842	6,770	-	45,612	38,533	6,850	-	45,383	38,137	6,899	-	45,036
Other retail	20	28,693	8,553	455	37,701	29,098	8,035	458	37,591	28,732	8,477	480	37,689
Qualifying revolving retail	21	36,404	58	-	36,462	36,443	56	-	36,499	35,594	54	-	35,648
Retail SMEs	22	5,912	6,498	-	12,410	5,882	6,444	-	12,326	5,682	6,303	-	11,985
Total Retail	23	206,092	33,068	455	239,615	205,294	32,632	458	238,384	203,300	32,695	480	236,475
Other assets	24	4,631	3,415	259	8,305	4,537	4,001	262	8,800	5,218	3,596	53	8,867
Equity	25	43	1,524	200	1,767	68	1,582	244	1,894	58	1,549	229	1,836
Total Bank	26	381,054	281,558	41,851	704,463	371,824	276,969	34,390	683,183	369,577	256,597	33,876	660,050

CREDIT RISK EXPOSURE BY MAJOR ASSET CLASS

LINE #	Q1 2019				Q4 2018				Q3 2018	Q2 2018	
	Drawn	Commitments (undrawn) (2)	Other off-balance sheet items (3)	Total	Drawn	Commitments (undrawn) (2)	Other off-balance sheet items (3)	Total	Total	Total	
Corporate (incl specialized lending and SMEs treated as corporate)	27	202,977	89,748	16,980	309,705	191,556	86,914	15,860	294,330	279,633	272,397
Sovereign	28	110,035	3,884	1,612	115,531	108,505	3,700	1,473	113,678	108,586	102,619
Bank	29	21,936	5,074	2,530	29,540	19,541	4,326	2,230	26,097	24,653	25,333
Total Wholesale	30	334,948	98,706	21,122	454,776	319,602	94,940	19,563	434,105	412,872	400,349
Residential mortgages excluding home equity line of credits (HELOCs)	31	107,244	109	77	107,430	106,392	119	74	106,585	106,117	105,076
HELOCs	32	31,261	14,351	-	45,612	31,290	14,093	-	45,383	45,036	44,327
Other retail	33	34,804	2,896	1	37,701	34,772	2,815	4	37,591	37,689	37,324
Qualifying revolving retail	34	7,278	29,184	-	36,462	8,361	28,138	-	36,499	35,648	35,640
Retail SMEs	35	10,004	2,359	47	12,410	9,859	2,421	46	12,326	11,985	11,534
Total Retail	36	190,591	48,899	125	239,615	190,674	47,586	124	238,384	236,475	233,901
Other assets	37	8,305	-	-	8,305	8,800	-	-	8,800	8,867	8,252
Equity	38	1,603	164	1,767	1,767	1,749	145	-	1,894	1,836	1,749
Total Bank	39	535,447	147,769	21,247	704,463	520,825	142,671	19,687	683,183	660,050	644,251

(1) Credit risk mitigants herein include only credit derivatives and guarantees. Collateral is reflected in the risk parameters (PDs, LGDs) for AIRB exposures and risk weights for exposures under the Standardized approach.

(2) The EAD on the difference between the authorized and drawn amounts (e.g. the unused portion of a line of credit).

(3) All other off-balance sheet arrangements, other than derivatives and undrawn commitments, such as Standby Letters of Credit and Documentary Credits.

CREDIT RISK BY RESIDUAL CONTRACT MATURITY BREAKDOWN

(\$ millions)	LINE #	Q1 2019				Q4 2018				Q3 2018	Q2 2018
		Drawn	Commitments (undrawn) (1)	Other off-balance sheet items (2)	Total	Drawn	Commitments (undrawn) (1)	Other off-balance sheet items (2)	Total	Total	Total
Up to 1 year	1	177,798	86,341	15,745	279,884	180,710	81,804	14,614	277,128	269,759	261,538
1 to 5 years	2	292,379	56,361	5,367	354,107	278,208	55,396	4,919	338,523	323,245	314,002
Greater than 5 years	3	65,270	5,067	135	70,472	61,907	5,471	154	67,532	67,046	68,711
Total Bank	4	535,447	147,769	21,247	704,463	520,825	142,671	19,687	683,183	660,050	644,251

CREDIT RISK EXPOSURE BY INDUSTRY

(\$ millions)	LINE #	Q1 2019				Q4 2018				Q3 2018	Q2 2018
		Drawn	Commitments (undrawn) (1)	Other off-balance sheet items (2)	Total	Drawn	Commitments (undrawn) (1)	Other off-balance sheet items (2)	Total	Total	Total
Agriculture	5	11,523	2,108	31	13,662	11,589	1,781	28	13,398	13,200	12,675
Communications	6	800	1,046	516	2,362	718	966	298	1,982	1,847	1,848
Construction	7	3,622	2,941	1,107	7,670	3,693	2,660	1,180	7,533	7,590	8,056
Financial	8	105,034	22,753	5,899	133,686	102,461	21,741	5,016	129,218	121,969	119,748
Forest products	9	823	428	71	1,322	737	438	66	1,241	1,134	1,231
Government	10	46,792	2,143	677	49,612	44,552	2,118	667	47,337	45,341	42,914
Individual	11	190,589	48,898	124	239,611	190,672	47,586	126	238,384	236,474	233,901
Manufacturing	12	25,038	14,635	1,529	41,202	22,729	13,490	1,396	37,615	35,918	34,929
Mining	13	2,058	3,608	1,319	6,985	1,907	3,666	1,181	6,754	6,363	6,126
Oil and Gas	14	10,101	12,351	1,944	24,396	9,145	10,410	1,804	21,359	17,912	17,346
Other	15	15,906	513	313	16,732	15,850	2,493	534	18,877	20,343	17,443
Real estate	16	34,240	8,390	810	43,440	31,537	8,170	820	40,527	38,706	36,692
Retail trade	17	20,878	3,968	546	25,392	19,980	3,617	559	24,156	23,695	23,381
Service industries	18	40,709	12,696	2,546	55,951	39,108	12,666	2,389	54,163	51,991	50,914
Transportation	19	7,288	2,376	707	10,371	6,899	2,287	708	9,894	9,807	9,852
Utilities	20	4,321	4,505	2,545	11,371	4,543	4,051	2,479	11,073	9,900	9,995
Wholesale trade	21	15,725	4,410	563	20,698	14,705	4,531	436	19,672	17,860	17,200
Total Bank	22	535,447	147,769	21,247	704,463	520,825	142,671	19,687	683,183	660,050	644,251

(1) The EAD on the difference between the authorized and drawn amounts (e.g. the unused portion of a line of credit).

(2) All other off-balance sheet arrangements, other than derivatives and undrawn commitments, such as Standby Letters of Credit and Documentary Credits.

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

		Q1 2019					
		Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
		a	b	c	d	e	f
1	SA-CCR (for derivatives) (2)	5,747	13,679		1.4	27,061	6,227
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)					24,709	2,594
5	VaR for SFTs					-	-
6	Total						8,821

(\$ millions except as noted)

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

		Q4 2018					
		Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
		a	b	c	d	e	f
1	Current exposure method (CEM) (for derivatives)	9,112	17,855			26,370	4,746
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)					22,212	3,171
5	VaR for SFTs					-	-
6	Total						7,917

(\$ millions except as noted)

(1) Excludes credit valuation adjustment charges and exposures cleared through a central counterparty.

(2) Effective Q1 2019, CCR for derivatives is calculated using the SA-CCR in accordance with the CAR Guideline issued by OSFI on October 30, 2018.

**CCR2 - CREDIT VALUATION ADJUSTMENT (CVA)
CAPITAL CHARGE**

(\$ millions)

		Q1 2019	
		EAD post-CRM	RWA
		a	b
	Total portfolios subject to the Advanced CVA capital charge	-	-
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 (1)	18,855	5,889
4	Total subject to the CVA capital charge	18,855	5,889

**CCR2 - CREDIT VALUATION ADJUSTMENT (CVA)
CAPITAL CHARGE**

(\$ millions)

		Q4 2018	
		EAD post-CRM	RWA
		a	b
	Total portfolios subject to the Advanced CVA capital charge	-	-
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 (1)	22,272	4,900
4	Total subject to the CVA capital charge	22,272	4,900

(1) Effective Q1 2019 RWA for CVA is no longer scaled while Q4 2018 RWA reflects CET1 scalar of 80% adjustment for CVA phase-in.

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

(\$ millions)

		Q1 2019								
		Risk Weight								
		0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Regulatory portfolio	LINE #	a	b	c	d	e	f	g	h	i
Sovereigns	1	-	-	-	-	-	-	-	-	-
Non-central government public sector entities (PSEs)	2	-	-	1	-	-	-	-	-	1
Multilateral development banks (MDBs)	3	-	-	-	-	-	-	-	-	-
Banks	4	-	-	156	-	-	-	-	-	156
Securities firms	5	-	-	2	-	-	-	-	-	2
Corporates	6	-	-	-	-	-	195	-	-	195
Regulatory retail portfolios	7	-	-	-	-	-	-	-	-	-
Secured by residential property	8	-	-	-	-	-	-	-	-	-
Secured by commercial real estate	9	-	-	-	-	-	3	-	-	3
Equity	10	-	-	-	-	-	-	-	-	-
Defaulted exposures	11	-	-	-	-	-	-	-	-	-
Higher-risk categories (2)	12	-	-	-	-	-	-	1	-	1
Other assets	13	-	-	-	-	-	-	-	-	-
Total	14	-	-	159	-	-	198	1	-	358

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

(\$ millions)

		Q4 2018								
		Risk Weight								
		0%	10%	20%	50%	75%	100%	150%	Others	Total credit exposure
Regulatory portfolio	LINE #	a	b	c	d	e	f	g	h	i
Sovereigns	15	-	-	-	-	-	-	-	-	-
Non-central government public sector entities (PSEs)	16	-	-	2	-	-	-	-	-	2
Multilateral development banks (MDBs)	17	-	-	-	-	-	-	-	-	-
Banks	18	-	-	296	-	-	-	-	-	296
Securities firms	19	-	-	-	-	-	-	-	-	-
Corporates	20	-	-	-	-	-	581	-	-	581
Regulatory retail portfolios	21	-	-	-	-	-	-	-	-	-
Secured by residential property	22	-	-	-	-	-	-	-	-	-
Secured by commercial real estate	23	-	-	-	-	-	1	-	-	1
Equity	24	-	-	-	-	-	-	-	-	-
Defaulted exposures	25	-	-	-	-	-	-	-	-	-
Higher-risk categories (2)	26	-	-	-	-	-	-	1	-	1
Other assets	27	-	-	-	-	-	-	-	-	-
Total	28	-	-	298	-	-	582	1	-	881

(1) Excludes credit valuation adjustment charges and exposures cleared through a central counterparty.

(2) Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

CCR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions except as noted)

Risk Profile	BMO Rating	PD scale (%)	Moody's Investors Service implied equivalent	Standard & Poor's implied equivalent	LINE #	Q1 2019						
						EAD post-CRM	Average PD (1)	Number of obligors (2)	Average LGD (3)	Average maturity (years) (4)	RWA	RWA density
						a	b	c	d	e	f	g
Corporate												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	13,808	0.05%	2,802	25.81%	0.95	1,216	8.81%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	1,484	0.19%	470	36.40%	1.72	480	32.35%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	2,473	0.32%	489	37.42%	1.81	1,152	46.58%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	1,562	0.61%	472	32.16%	1.64	824	52.75%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	1,362	1.42%	649	31.40%	1.51	1,015	74.52%
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	254	3.01%	219	39.76%	2.64	312	122.83%
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	7	13.15%	15	23.90%	1.24	7	100.00%
Default	Default	100.00 (Default)	C	C to D	8	-	100.00%	4	45.00%	2.74	-	0.00%
Sub-total					9	20,950		5,120			5,006	
Sovereign												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	10	9,300	0.04%	214	12.34%	2.57	422	4.54%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	43	0.20%	5	11.00%	1.63	4	9.30%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	82	0.32%	6	29.80%	0.50	21	25.61%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	6	0.54%	1	55.00%	1.00	4	66.67%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	6	0.91%	1	40.00%	1.00	4	66.67%
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	15	-	0.00%	-	0.00%	0.00	-	0.00%
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	0.00%	-	0.00%	0.00	-	0.00%
Default	Default	100.00 (Default)	C	C to D	17	-	0.00%	-	0.00%	0.00	-	0.00%
Sub-total					18	9,437		227			455	
Bank												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	19	19,050	0.06%	261	33.38%	0.97	2,521	13.23%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	1,374	0.19%	110	31.88%	1.51	375	27.29%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	221	0.32%	48	35.00%	1.11	85	38.46%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	374	0.54%	33	35.67%	0.08	139	37.17%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	4	1.24%	14	45.80%	1.08	4	100.00%
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	5	2.74%	6	36.10%	0.95	5	100.00%
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	25	-	0.00%	-	0.00%	0.00	-	0.00%
Default	Default	100.00 (Default)	C	C to D	26	-	0.00%	-	0.00%	0.00	-	0.00%
Sub-total					27	21,028		472			3,129	
Total (all wholesale portfolios)					28	51,415		5,819			8,590	

(1) Calculated as obligor PD weighted by EAD.

(2) Obligor count for Wholesale portfolios is at the borrower level.

(3) Calculated as the obligor LGD net of CRM weighted by EAD.

(4) Calculated as the obligor effective maturity in years weighted by EAD.

CCR4 - IRB - CCR EXPOSURES BY PORTFOLIO AND PD SCALE

(\$ millions except as noted)

Risk Profile	BMO Rating	PD scale (%)	Moody's Investors Service implied equivalent	Standard & Poor's implied equivalent	LINE #	Q4 2018						
						EAD post-CRM	Average PD (1)	Number of obligors (2)	Average LGD (3)	Average maturity (years) (4)	RWA	RWA density
						a	b	c	d	e	f	g
Corporate												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	1	9,747	0.05%	2,790	29.58%	0.99	854	8.76%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	2	2,074	0.19%	375	19.77%	1.16	339	16.32%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	3	1,169	0.32%	526	30.64%	2.05	723	61.86%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	4	1,103	0.66%	475	28.16%	1.33	764	69.27%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	5	1,328	1.43%	606	18.93%	0.94	912	68.71%
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	6	321	2.81%	212	42.25%	0.79	356	110.99%
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	7	23	12.96%	9	19.14%	1.00	20	87.70%
Default	Default	100.00 (Default)	C	C to D	8	0	100.00%	1	45.00%	2.99	0	533.33%
Sub-total					9	15,765		4,994			3,968	
Sovereign												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	10	9,904	0.04%	219	6.67%	2.38	268	2.71%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	11	15	0.20%	5	11.57%	1.97	2	12.21%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	12	104	0.33%	6	39.96%	0.51	28	26.81%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	13	3	0.63%	1	55.00%	1.00	2	76.38%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	14	7	1.21%	2	40.00%	0.90	4	67.37%
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	15	1	2.74%	2	65.00%	4.29	2	225.33%
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	0.00%	-	0.00%	0.00	-	0.00%
Default	Default	100.00 (Default)	C	C to D	17	-	0.00%	-	0.00%	0.00	-	0.00%
Sub-total					18	10,034		235			306	
Bank												
Investment grade	I-1, I-2, I-3, I-4, I-5	0.00 to <0.15	Aaa to Baa1	AAA to BBB+	19	20,382	0.07%	253	29.25%	1.16	2,614	12.82%
Investment grade	I-5, I-6	0.15 to <0.25	Baa1 to Baa2	BBB+ to BBB	20	983	0.19%	85	28.33%	0.98	201	20.44%
Investment grade	I-6, I-7	0.25 to <0.50	Baa2 to Baa3	BBB to BBB-	21	101	0.32%	59	22.28%	1.86	14	13.86%
Investment grade to Non-investment grade	I-7, S-1	0.50 to <0.75	Baa3 to Ba1	BBB- to BB+	22	415	0.54%	28	29.17%	0.13	150	36.20%
Non-investment grade	S-1, S-2, S-3	0.75 to <2.50	Ba1 to Ba3	BB+ to BB-	23	16	0.91%	10	54.12%	0.67	15	96.06%
Non-investment grade to Watchlist	S-3, S-4, P-1, P-2	2.50 to <10.00	Ba3 to Caa1	BB- to B-	24	6	2.74%	7	35.00%	0.98	5	88.58%
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	25	-	0.00%	-	0.00%	0.00	-	0.00%
Default	Default	100.00 (Default)	C	C to D	26	-	0.00%	-	0.00%	0.00	-	0.00%
Sub-total					27	21,903		442			2,999	
Total (all wholesale portfolios)					28	47,702		5,671			7,273	

(1) Calculated as obligor PD weighted by EAD.

(2) Obligor count for Wholesale portfolios is at the borrower level.

(3) Calculated as the obligor LGD net of CRM weighted by EAD.

(4) Calculated as the obligor effective maturity in years weighted by EAD.

CCR5 - COMPOSITION OF COLLATERAL FOR CCR EXPOSURE (1)

(\$ millions)		Q1 2019					
		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		
LINE #	a	b	c	d	e	f	
Cash – domestic currency	1	-	1,921	-	1,510	20,198	36,045
Cash – other currencies	2	-	1,842	-	1,530	75,429	66,573
Domestic sovereign debt	3	-	305	-	786	53,207	30,672
Other sovereign debt	4	-	42	-	324	48,048	50,649
Government agency debt	5	-	619	-	423	4,003	11,685
Corporate bonds	6	-	35	-	37	7,916	19,249
Equity securities	7	-	-	-	931	29,748	45,156
Other collateral	8	-	-	-	-	1,068	-
Total	9	-	4,764	-	5,541	239,617	260,029

CCR5 - COMPOSITION OF COLLATERAL FOR CCR EXPOSURE (1)

(\$ millions)		Q4 2018					
		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		
LINE #	a	b	c	d	e	f	
Cash – domestic currency	10	-	1,487	-	908	20,636	40,936
Cash – other currencies	11	-	3,276	-	1,261	54,761	48,215
Domestic sovereign debt	12	-	164	-	636	54,622	28,312
Other sovereign debt	13	-	108	-	345	33,739	34,079
Government agency debt	14	-	640	-	350	1,909	8,921
Corporate bonds	15	-	33	-	-	7,735	16,459
Equity securities	16	-	-	-	-	23,106	39,832
Other collateral	17	-	-	-	-	1,074	-
Total	18	-	5,708	-	3,500	197,582	216,754

(1) Segregated refers to collateral which is held in a bankruptcy-remote manner whereas unsegregated refers to collateral that is not held in bankruptcy-remote manner.

CCR6 - CREDIT DERIVATIVES EXPOSURES (1)

(\$ millions)	LINE #	Q1 2019	
		Protection bought	Protection sold
		a	b
Notionals			
Single-name credit default swaps	1	1,879	-
Index credit default swaps	2	4,358	1,877
Total return swaps	3	1,136	4
Credit options	4	-	-
Other credit derivatives	5	-	-
Total notionals	6	7,373	1,881
Fair values			
Positive fair value (asset)	7	30	34
Negative fair value (liability)	8	111	-

CCR6 - CREDIT DERIVATIVES EXPOSURES (1)

(\$ millions)		Q4 2018	
		Protection bought	Protection sold
		a	b
Notionals			
Single-name credit default swaps	9	1,858	24
Index credit default swaps	10	1,977	797
Total return swaps	11	1,318	379
Credit options	12	-	-
Other credit derivatives	13	-	-
Total notionals	14	5,153	1,200
Fair values			
Positive fair value (asset)	15	33	15
Negative fair value (liability)	16	53	1

(1) Long/short positions are reported separately and are not collapsed.

CCR8 - EXPOSURES TO CENTRAL COUNTERPARTIES (1)

(\$ millions)

		Q1 2019	
		EAD (post-CRM)	RWA
		a	b
1	Exposures to QCCPs (total)		568
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which		
3	(i) OTC derivatives	8,540	174
4	(ii) Exchange-traded derivatives	3,572	74
5	(iii) Securities financing transactions	3,783	76
6	(iv) Netting sets where cross-product netting has been approved	1,185	24
7	Segregated initial margin	-	-
8	Non-segregated initial margin	-	-
9	Pre-funded default fund contributions	2,751	
10	Unfunded default fund contributions	702	394
		-	-
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	-	-

CCR8 - EXPOSURES TO CENTRAL COUNTERPARTIES

(\$ millions)

		Q4 2018	
		EAD (post-CRM)	RWA
		a	b
1	Exposures to QCCPs (total)		664
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which		
3	(i) OTC derivatives	11,327	230
4	(ii) Exchange-traded derivatives	5,547	114
5	(iii) Securities financing transactions	4,534	91
6	(iv) Netting sets where cross-product netting has been approved	1,246	25
7	Segregated initial margin	-	-
8	Non-segregated initial margin	-	-
9	Pre-funded default fund contributions	2,832	57
10	Unfunded default fund contributions	695	377
		-	-
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	-	-

(1) Q1 2019 results reflect the new capital requirements for bank exposures to central counterparties as outlined in OSFI's CAR Guideline issued October 30, 2018.

DERIVATIVE INSTRUMENTS																	
LINE #	As at January 31, 2019				As at October 31, 2018				As at July 31, 2018				As at April 30, 2018				
	Notional Amount	Replacement Cost (1)	Credit risk Equivalent	AIRB Risk-weighted Assets (2)	Notional Amount	Replacement Cost	Credit risk Equivalent	AIRB Risk-weighted Assets (1)	Notional Amount	Replacement Cost	Credit risk Equivalent	AIRB Risk-weighted Assets (1)	Notional Amount	Replacement Cost	Credit risk Equivalent	AIRB Risk-weighted Assets (1)	
Interest Rate Contracts																	
Over-the-counter Swaps (3)	1	3,956,228	2,760	7,652	1,358	3,831,997	8,514	10,699									
Forward rate agreements	2	566,076	373	1,227	215	411,573	36	34									
Purchased options	3	35,812	1	68	34	35,023	409	393									
Written options	4	44,529	29	176	96	48,721	-	-									
Total Interest Rate Contracts	5	4,602,645	3,163	9,123	1,703	4,327,314	8,959	11,126	704	3,921,409	8,694	11,325	669	3,849,950	8,449	11,581	1,267
Exchange traded																	
Futures	6	179,167	32	97	2	192,482	-	-									
Purchased options	7	12,530	13	24	1	26,629	-	-									
Written options	8	10,771	3	7	-	16,511	-	-									
Total Exchange Traded	9	202,468	48	128	3	235,622	-	-									
Total Interest Rate Contracts	10	4,805,113	3,211	9,251	1,706	4,562,936	8,959	11,126	704	4,096,810	8,694	11,325	669	4,006,610	8,449	11,581	1,267
Foreign Exchange Contracts																	
Over-the-counter Cross-currency swaps	11	570,412	1,257	6,482	1,134	548,148	8,305	22,741									
Forward foreign exchange contracts	12	412,838	1,807	6,729	1,100	472,323	4,453	8,373									
Purchased options	13	27,893	42	159	46	21,468	225	424									
Written options	14	32,308	6	84	25	24,018	-	-									
Total Foreign Exchange Contracts	15	1,043,451	3,112	13,454	2,305	1,065,957	12,983	31,538	2,544	1,037,013	12,641	30,083	2,302	1,051,019	14,382	32,516	2,618
Exchange traded																	
Futures	16	607	4	9	-	739	-	-									
Purchased options	17	3,516	17	32	1	2,625	-	-									
Written options	18	2,089	3	6	-	1,420	-	-									
Total Exchange Traded	19	6,212	24	47	1	4,784	-	-									
Total Foreign Exchange Contracts	20	1,049,663	3,136	13,501	2,306	1,070,741	12,983	31,538	2,544	1,041,558	12,641	30,083	2,302	1,058,025	14,382	32,516	2,618
Commodity Contracts																	
Over-the-counter Swaps	21	22,692	575	2,618	741	24,366	1,559	4,450									
Purchased options	22	6,098	32	327	85	6,182	335	1,108									
Written options	23	3,854	6	162	33	4,233	-	-									
Total Commodity Contracts	24	32,644	613	3,107	859	34,781	1,894	5,558	1,188	32,929	2,064	5,489	1,136	31,630	2,197	5,385	1,127
Exchange traded																	
Futures	25	30,999	728	1,511	30	33,104	-	-									
Purchased options	26	2,434	123	191	4	3,303	-	-									
Written options	27	4,369	46	97	2	4,909	-	-									
Total Exchange Traded	28	37,802	897	1,799	36	41,316	-	-									
Total Commodity Contracts	29	70,446	1,510	4,906	895	76,097	1,894	5,558	1,188	73,104	2,064	5,489	1,136	70,854	2,197	5,385	1,127
Equity Contracts																	
Over-the-counter Swaps	30	46,765	256	4,712	1,351	53,107	1,585	4,332									
Exchange traded	31	29,194	715	1,808	36	33,687	-	-									
Total Equity Contracts	32	75,959	971	6,520	1,387	86,794	1,585	4,332	431	82,373	840	3,431	442	90,628	1,040	4,263	545
Credit Default Swaps																	
Sub-total	33	4,508	85	238	83	3,490	10	55	83	2,430	5	55	63	2,548	5	55	38
Impact of master netting agreements	34	6,005,689	8,913	34,416	6,377	5,800,058	25,431	52,609	4,950	5,296,275	24,244	50,383	4,612	5,228,665	26,073	53,800	5,595
Total	35	n.a.	-	-	-	n.a.	(15,575)	(29,170)		n.a.	(15,454)	(28,614)		n.a.	(17,130)	(31,371)	
Total	36	6,005,689	8,913	34,416	6,377	5,800,058	9,856	23,439	4,950	5,296,275	8,790	21,769	4,612	5,228,665	8,943	22,429	5,595

(1) Effective January 31, 2019 Replacement Cost and Credit Risk Equivalent are presented after the impact of master netting agreements and calculated using the SA-CCR in accordance with the CAR Guideline issued by OSFI on October 30, 2018. Prior periods have not been restated.

Q1 2019 results reflect the new capital requirements for bank exposures to central clearing counterparties in OSFI's CAR Guideline issued October 30, 2018.

(2) Risk-weighted assets are reported after the impact of master netting agreements and application of scaling factor where applicable.

(3) Interest Rate Contracts includes Interest Rate Total Return Swaps.

SEC1 - SECURITIZATION EXPOSURES IN THE BANKING BOOK (1)

(\$ millions)		Q1 2019								
		Bank acts as originator			Bank acts as sponsor			Bank acts as investor		
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
		a	b	c	e	f	g	i	j	k
1	Total retail, of which:	4,225	-	4,225	10,239	-	10,239	-	-	-
2	Residential mortgage (2)	1,024	-	1,024	2,324	-	2,324	-	-	-
3	Credit card	2,204	-	2,204	729	-	729	-	-	-
4	Other retail exposures	997	-	997	7,186	-	7,186	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Total wholesale, of which:	49	5,786	5,835	6,127	-	6,127	8	-	8
7	Loans to corporates	49	5,786	5,835	207	-	207	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	-	-	-
9	Lease and receivables	-	-	-	5,432	-	5,432	-	-	-
10	Other wholesale	-	-	-	488	-	488	8	-	8
11	Re-securitization	-	-	-	-	-	-	-	-	-

SEC1 - SECURITIZATION EXPOSURES IN THE BANKING BOOK (1)

(\$ millions)		Q4 2018								
		Bank acts as originator			Bank acts as sponsor			Bank acts as investor		
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
		a	b	c	e	f	g	i	j	k
1	Total retail, of which:	4,110	-	4,110	10,298	-	10,298	-	-	-
2	Residential mortgage (2)	1,079	-	1,079	2,803	-	2,803	-	-	-
3	Credit card	1,873	-	1,873	731	-	731	-	-	-
4	Other retail exposures	1,158	-	1,158	6,764	-	6,764	-	-	-
5	Re-securitization	-	-	-	-	-	-	-	-	-
6	Total wholesale, of which:	49	4,417	4,466	6,273	-	6,273	8	-	8
7	Loans to corporates	49	4,417	4,466	207	-	207	-	-	-
8	Commercial mortgage	-	-	-	-	-	-	-	-	-
9	Lease and receivables	-	-	-	5,578	-	5,578	-	-	-
10	Other wholesale	-	-	-	488	-	488	8	-	8
11	Re-securitization	-	-	-	-	-	-	-	-	-

(1) The amounts disclosed represent the carrying value of securitization exposures in the banking book, including securitization exposures where the criteria for recognition of risk transference are not met.

As at January 31, 2019, \$978 million (\$1,106 million at October 31, 2018) of securitization exposures did not qualify for risk transference. The table excludes securitization-related assets of \$6,542 million (\$5,977 million at October 31, 2018) not subject to capital requirements but consolidated on the balance sheet for accounting purposes.

(2) Excludes mortgage-backed securities that do not involve the tranching of credit risk (e.g. NHA MBS) which are not considered securitizations as per OSFI's Capital Adequacy Requirements Guideline, Chapter 7, Structured Credit Products.

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK

(\$ millions)		Q1 2019								
		Bank acts as originator			Bank acts as sponsor			Bank acts as investor		
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
		a	b	c	e	f	g	i	j	k
1	Total retail, of which:	-	-	-	-	-	-	371	-	371
2	Residential mortgage	-	-	-	-	-	-	61	-	61
3	Credit card	-	-	-	-	-	-	83	-	83
4	Auto loans/leases	-	-	-	-	-	-	210	-	210
5	Student loans	-	-	-	-	-	-	7	-	7
6	Other retail exposures	-	-	-	-	-	-	10	-	10
7	Re-securitization	-	-	-	-	-	-	-	-	-
8	Total wholesale, of which:	-	-	-	-	-	-	128	-	128
9	Loans to corporates	-	-	-	-	-	-	12	-	12
10	Commercial mortgage	-	-	-	-	-	-	19	-	19
11	Lease and receivables	-	-	-	-	-	-	46	-	46
12	Auto floorplan	-	-	-	-	-	-	4	-	4
13	Insurance premium	-	-	-	-	-	-	-	-	-
14	Other wholesale	-	-	-	-	-	-	47	-	47
15	Re-securitization	-	-	-	-	-	-	-	-	-

SEC2 - SECURITIZATION EXPOSURES IN THE TRADING BOOK

(\$ millions)		Q4 2018								
		Bank acts as originator			Bank acts as sponsor			Bank acts as investor		
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total
		a	b	c	e	f	g	i	j	k
1	Total retail, of which:	-	-	-	-	-	-	282	-	282
2	Residential mortgage	-	-	-	-	-	-	32	-	32
3	Credit card	-	-	-	-	-	-	126	-	126
4	Auto loans/leases	-	-	-	-	-	-	113	-	113
5	Student loans	-	-	-	-	-	-	10	-	10
6	Other retail exposures	-	-	-	-	-	-	1	-	1
7	Re-securitization	-	-	-	-	-	-	-	-	-
8	Total wholesale, of which:	-	-	-	-	-	-	87	-	87
9	Loans to corporates	-	-	-	-	-	-	15	-	15
10	Commercial mortgage	-	-	-	-	-	-	-	-	-
11	Lease and receivables	-	-	-	-	-	-	35	-	35
12	Auto floorplan	-	-	-	-	-	-	24	-	24
13	Insurance premium	-	-	-	-	-	-	7	-	7
14	Other wholesale	-	-	-	-	-	-	6	-	6
15	Re-securitization	-	-	-	-	-	-	-	-	-

SEC3 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS ORIGINATOR OR AS SPONSOR) (1) (2)

(\$ millions)	Q1 2019																
	Exposure values by RW bands (3)					Exposure values by regulatory approach (3)				RWA by regulatory approach (4)				Capital charge after cap			
	≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
1 Total exposures	22,770	1,971	19	62	6	21,888	2,207	733	-	3,696	221	336	-	255	18	27	-
2 Traditional securitization	17,644	1,971	19	58	-	16,752	2,207	733	-	2,798	221	336	-	183	18	27	-
3 Of which securitization	17,644	1,971	19	58	-	16,752	2,207	733	-	2,798	221	336	-	183	18	27	-
4 Of which retail underlying	11,900	1,592	1	23	-	11,289	2,207	20	-	1,947	221	244	-	118	18	20	-
5 Of which wholesale	5,744	379	18	35	-	5,463	-	713	-	851	-	92	-	65	-	7	-
6 Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	5,126	-	-	4	6	5,136	-	-	-	898	-	-	-	72	-	-	-
10 Of which securitization	5,126	-	-	4	6	5,136	-	-	-	898	-	-	-	72	-	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	5,126	-	-	4	6	5,136	-	-	-	898	-	-	-	72	-	-	-
13 Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SEC3 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS ORIGINATOR OR AS SPONSOR) (1) (2)

(\$ millions)	Q4 2018																
	Exposure values by RW bands (3)					Exposure values by regulatory approach (3)				RWA by regulatory approach (4)				Capital charge after cap			
	≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	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%
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
1 Total exposures	23,487	55	2	3	39	3,004	20,582	-	-	529	1,775	-	-	43	148	-	-
2 Traditional securitization	19,571	20	2	3	29	3,004	16,621	-	-	529	1,364	-	-	43	115	-	-
3 Of which securitization	19,571	20	2	3	29	3,004	16,621	-	-	529	1,364	-	-	43	115	-	-
4 Of which retail underlying	13,254	20	2	2	24	3,004	10,298	-	-	529	803	-	-	43	68	-	-
5 Of which wholesale	6,317	-	-	1	5	-	6,323	-	-	-	561	-	-	-	47	-	-
6 Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Of which senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Of which non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 Synthetic securitization	3,916	35	-	-	10	-	3,961	-	-	-	411	-	-	-	33	-	-
10 Of which securitization	3,916	35	-	-	10	-	3,961	-	-	-	411	-	-	-	33	-	-
11 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 Of which wholesale	3,916	35	-	-	10	-	3,961	-	-	-	411	-	-	-	33	-	-
13 Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(1) Only includes securitization exposures where the risk transference recognition criteria are met in accordance with OSFI's Capital Adequacy Requirements Guidelines, Chapter 7, Structured Credit Products.

(2) Effective Q1 2019, securitization capital requirements are calculated accordance with new securitization framework in OSFI's CAR Guideline issued October 30, 2018.

(3) Exposure amounts are net of collateral.

(4) RWA before application of the KIRB cap.

SEC4 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS INVESTOR) (1) (2)

(\$ millions)	Q1 2019																
	Exposure values by RW bands (3)					Exposure values by regulatory approach (3)				RWA by regulatory approach (4)				Capital charge after cap (5)			
	≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	1250% RW	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA, including IAA	SEC-SA	1250%
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
1 Total exposures	-	-	8	-	-	-	8	-	-	-	-	-	-	-	-	-	-
2 Traditional securitization	-	-	8	-	-	-	8	-	-	-	-	-	-	-	-	-	-
3 Of which securitization	-	-	8	-	-	-	8	-	-	-	-	-	-	-	-	-	-
4 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 Of which wholesale	-	-	8	-	-	-	8	-	-	-	-	-	-	-	-	-	-
6 Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SEC4 - SECURITIZATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS (BANK ACTING AS INVESTOR) (1) (2)

(\$ millions)	Q4 2018																
	Exposure values by RW bands (3)					Exposure values by regulatory approach (3)				RWA by regulatory approach (4)				Capital charge after cap (5)			
	≤20%	>20% to 50%	>50% to 100%	>100% to <1250%	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%
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
1 Total exposures	8	-	-	-	-	8	-	-	-	1	-	-	-	1	-	-	-
2 Traditional securitization	8	-	-	-	-	8	-	-	-	1	-	-	-	1	-	-	-
3 Of which securitization	8	-	-	-	-	8	-	-	-	1	-	-	-	1	-	-	-
4 Of which retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 Of which wholesale	8	-	-	-	-	8	-	-	-	1	-	-	-	1	-	-	-
6 Of which re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 re-securitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(1) Only includes securitization exposures where the risk transference recognition criteria are met in accordance with OSFI's Capital Adequacy Requirements Guidelines, Chapter 7, Structured Credit Products.

(2) Effective Q1 2019, securitization capital requirements are calculated accordance with new securitization framework in OSFI's CAR Guideline issued October 30, 2018.

(3) Exposure amounts are net of collateral.

(4) RWA before application of the KIRB cap.

MARKET RISK RISK-WEIGHTED ASSETS (RWA) MOVEMENT BY KEY DRIVERS

(\$ millions except as noted)

	LINE #	2019 Q1	2018 Q4	2018 Q3	2018 Q2	2018 Q1	2017 Q4
Market Risk RWA, beginning of quarter	1	13,532	11,097	10,415	9,816	8,448	8,314
Movement in risk levels (1)	2	1,615	(980)	1,643	569	1,208	152
Model updates (2)	3	-	399	44	-	-	-
Methodology and policy (3)	4	(327)	(178)	(1,005)	30	160	(18)
Acquisition and disposals	5	-	3,194	-	-	-	-
Foreign exchange movement and others	6	-	-	-	-	-	-
Market Risk RWA, end of quarter	7	14,820	13,532	11,097	10,415	9,816	8,448

(1) Movement in risk levels includes changes in exposures and market movements.

(2) Model updates includes updates to risk models to reflect recent experience and changes in model scope.

(3) Methodology and policy includes methodology changes to the calculations driven by regulatory policy changes, such as new or revised regulation.

ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH

(\$ millions except as noted)

Risk Profile	LINE #	Q1 2019						Q4 2018					
		PD (1) (2)		LGD (3) (4)		EAD (5) (6)		PD (1) (2)		LGD (3) (4)		EAD (5) (6)	
		Average estimated	Actual	Average estimated	Actual	Estimated	Actual	Average estimated	Actual	Average estimated	Actual	Estimated	Actual
Wholesale													
Corporate including specialized lending	1	0.83%	0.42%	35.03%	21.43%	264	225	0.83%	0.44%	35.31%	19.59%	268	228
Corporate small and medium enterprises (SMEs)	2	1.26%	0.49%	38.27%	21.91%	118	87	1.26%	0.53%	38.43%	22.58%	68	65
Sovereign	3	0.11%	0.00%	15.05%	0.00%	-	-	0.11%	0.00%	14.93%	0.00%	-	-
Bank	4	0.31%	0.00%	14.72%	0.00%	-	-	0.31%	0.00%	17.30%	0.00%	-	-
Retail													
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (7) (8)	5	0.98%	0.59%	24.59%	13.85%	244	244	0.97%	0.64%	25.67%	14.34%	250	250
HELOCs (8)	6	0.57%	0.42%	34.58%	20.18%	178	171	0.57%	0.47%	34.60%	20.04%	190	184
Qualifying revolving retail (QRR)	7	1.37%	1.12%	84.31%	75.24%	476	461	1.30%	1.15%	84.12%	79.00%	484	468
Other retail (excl. SMEs)	8	5.42%	4.97%	85.16%	79.28%	321	320	4.97%	4.53%	84.04%	77.44%	328	328
Retail SMEs	9	1.25%	0.81%	95.80%	77.96%	48	42	1.17%	0.83%	95.86%	78.51%	47	42

(1) Wholesale PDs are based on a borrower weighted average. There have been no Bank or Sovereign defaults in the past 12 months.

(2) Retail PD is based on account weighted average.

(3) Wholesale LGDs are expressed as an exposure weighted average. The LGD figures include back-dated resolved facilities.

(4) Retail LGD is based on weighted average of LGD eligible accounts.

(5) Wholesale EAD represented predicted vs. realized comparison for defaults in the previous 12 months. Term products are not included. No defaults in the Bank and Sovereign asset classes within the past 12 months.

(6) Retail EAD represents predicted vs. realized comparison for defaults in the previous 12 months.

(7) Mortgages insured by Canada Mortgage And Housing Corporation and private mortgage insurers are primarily included in Sovereign.

(8) Investor-owned mortgages are included in the Other Retail asset class.

AIRB (Advanced Internal Ratings Based approach): The AIRB approach is the most advanced of the range of options for determining the capital requirements for credit risk. This option allows banks to use their own internal model to measure credit risk capital requirements, subject to regulatory approval. OSFI has indicated that it expects the largest Canadian Banks to adopt the AIRB approach.

Basel Capital Floor: A capital floor is measured based on the Basel standardized approach for credit risk and internal model market risk, as prescribed by OSFI in CAR.

Capital Adequacy Requirements (CAR): OSFI's Capital Adequacy Requirements guideline.

Credit Conversion Factor (CCF) converts an off balance sheet exposure to its credit exposure equivalent.

Credit Risk Mitigation (CRM) are techniques under the CAR that banks use to mitigate credit risk and applicable capital, including exposures collateralized by first priority claims, in whole or in part with cash or securities, a loan exposure guaranteed by a third party, or a credit derivative to offset various forms of credit risk.

Credit valuation adjustment (CVA) is the adjustment that a bank must add as capital charge to cover the risk of mark-to-market losses on the expected counterparty risk to OTC derivatives.

The **Current exposure method (CEM)** is a method to calculate the exposure at default for OTC derivatives when the Internal Models Method (IMM) is not used.

Drawn: The amount of funds invested or advanced to a customer.

Exposure at Default (EAD): EAD for on-balance sheet amounts represents outstandings, grossed up by provisions for credit losses on impaired loans and write-offs. EAD for undrawn and other off-balance sheet are estimated using CCFs.

Exposure at Default OTC Derivatives: Represent the net gross positive replacement costs plus the potential credit exposure amount.

HELOCs: Home Equity Lines of Credit comprise lines of credit secured by equity in a residential property.

OSFI: Office of the Superintendent of Financial Institutions.

Pillar 3: OSFI prescribed regulatory disclosures to promote market discipline.

Qualifying central counterparty (QCCP) is an entity that is licensed to operate as a central counterparty (CCP) and is permitted by the appropriate regulator/overseer to operate as such with respect to the products offered.

RWA Density is the ratio of Σ risk weighted assets / (total exposures post CCF and post CRM). It provides a synthetic metric on riskiness of each portfolio.

SA-CCR is the Standardized Approach for Counterparty Credit Risk. Effective Q1 2019, SA-CCR replaces CEM as the methodology to calculate exposure at default for OTC derivatives when the Internal Models Method (IMM) is not used.

Scaling Factor: Regulatory requirement of an incremental multiplier of 1.06 applied to AIRB credit risk RWA.

Securities Financing Transactions (SFT): transactions such as repurchase agreements, reverse repurchase agreements, security lending and borrowing, and wholesale margin lending transactions.

Standardized Approach: This option allows banks to measure capital requirements by multiplying exposures by defined percentages based on the exposures product type and external credit rating (if applicable).

Value at risk (VaR) is a measure of how much a set of investments might lose (with a given probability), given normal market conditions, in a set time period.