Supplementary Regulatory Capital Information

For the Quarter Ended - October 31, 2018

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

PILLAR 3 DISCLOSURE REQUIREMENTS

On April 20, 2017, the Office of the Superintendent of Financial Institutions (OSFI) released the final version of its guideline, 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 quidance effective October 31, 2018.

The new Pillar 3 disclosures are prospective with comparative periods to be provided over future reporting periods. For prior period information, please refer to Q3 2018 and prior Supplementary

	Information Packages.
Disclosu	res related to the Revised Basel Pillar 3 standard are detailed below.
Overvie	w of risk management and risk-weighted assets (RWA)
	Describe the bank's strategy and how senior management and the board of directors assess and manage risks, enabling users to gain a clear understanding of the bank's risk tolerance/appetite in
OVA	relation to its main activities and all significant risks.
OVA	2018 Annual Report: A description of the bank's risk management objectives and policies can be found in the Enterprise-Wide Capital Management and Enterprise-Wide Risk Management
	sections starting on pages 69 and 78 respectively, of the MD&A.
OV1	Provide an overview of total RWA forming the denominator of the risk-based capital requirements.
	Q4 2018 Supplementary Regulatory Capital Information: A table showing the risk-weighted assets and capital requirements is provided on page 7.
Linkage	s between financial statements and regulatory exposures
LI1	Identify differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories.
	Q4 2018 Supplementary Regulatory Capital Information: A reconciliation of the accounting balance sheet to the regulatory balance sheet is provided on page 8.
LI2	Provide information on the main sources of differences between the financial statements' carrying value amounts and the exposure amounts used for regulatory purposes.
LIZ	Q4 2018 Supplementary Regulatory Capital Information: A table showing the main sources of differences between regulatory exposure amounts and carrying values in the financial statements is provided on page 9.
	Provide qualitative explanations on the differences observed between accounting carrying value and amounts considered for regulatory purposes under each regulatory framework.
	2018 Annual Report: A description of systems and controls to ensure that the valuation estimates are prudent and reliable can be found on page 118 of the MD&A and in Note 17 on pages 184 to
LIA	190 of the consolidated financial statements.
	Q4 2018 Supplementary Regulatory Capital Information: Explanations of differences between accounting and regulatory exposure amounts are provided on pages 8 and 9.
Credit R	
	Describe the main characteristics and elements of credit risk management (business model and credit risk profile, organization and functions involved in credit risk management, risk management
CRA	reporting).
	2018 Annual Report: A description of the bank's risk management objectives and policies for credit risk can be found on pages 81 to 87 of the MD&A.
CR1	Provide a comprehensive picture of the credit quality of the bank's on- and off-balance sheet assets.
U.(.)	Q4 2018 Supplementary Regulatory Capital Information: A table showing credit quality of assets is provided on page 10.
000	Identify the changes in the bank's stock of defaulted exposures, the flows between non-defaulted and defaulted exposure categories and reductions in the stock of defaulted exposures due to write-
CR2	offs.
	Q4 2018 Supplementary Regulatory Capital Information: A table showing changes in stock of defaulted loans and debt securities is provided on page 10. Supplement the quantitative templates with information on the credit quality of the bank's assets.
	2018 Annual Report: Additional qualitative disclosure related to the credit quality of assets, including information on our renegotiated loans, is provided in Note 4 on pages 157 to 164 of the
	consolidated financial statements.
CRB	Q4 2018 Supplementary Regulatory Capital Information: Exposures by geographic area, industry and residual maturity are provided on pages 14 and 15.
	Q4 2018 Supplementary Financial Information: Impaired exposures and related allowances and write-offs are provided on pages 20 to 26.
	An ageing analysis of accounting past due exposures is provided on page 29.
	Provide qualitative information on the mitigation of credit risk.
CRC	2018 Annual Report: Credit risk mitigation (CRM) is described on pages 88 to 89 of the MD&A and in Notes 8 and 17 on pages 173 and 185, respectively, of the consolidated financial
	statements.
CR3	Disclose the extent of use of CRM techniques.
OIXS	Q4 2018 Supplementary Regulatory Capital Information: A table showing an overview of CRM techniques is provided on page 10.
	Supplement the information on the bank's use of the standardized approach with qualitative data on the use of external ratings.
CRD	Q4 2018 Supplementary Regulatory Capital Information: Qualitative disclosures on the bank's use of external credit ratings under the standardized approach for credit risk is provided on
	page 11.
CR4	Illustrate the effect of CRM on the standardized approach capital requirements' calculations.
	Q4 2018 Supplementary Regulatory Capital Information: A table showing standardized approach credit risk exposure and CRM effects is provided on page 11. Present the breakdown of credit risk exposures under the standardized approach by asset class and risk weight.
CR5	Q4 2018 Supplementary Regulatory Capital Information: A table showing standardized approach credit risk exposures by asset class and risk weight is provided on page 11.
	Provide additional information on internal rating based (IRB) models used to compute RWA.
CRE	2018 Annual Report: Qualitative disclosures on the bank's use of IRB models are provided on pages 89 to 90 and pages 111 to 112 of the MD&A

2018 Annual Report: Qualitative disclosures on the bank's use of IRB models are provided on pages 89 to 90 and pages 111 to 112 of the MD&A.

Q4 2018 Supplementary Regulatory Capital Information: A table showing IRB credit risk exposures by portfolio and PD (Probability of Default) range is provided on page 12.

Provide main parameters used for the calculation of capital requirements for IRB models.



Credit R	isk (continued)
CR7	Illustrate the effect of credit derivatives on the IRB approach capital requirements' calculations.
CKI	Q4 2018 Supplementary Regulatory Capital Information: A table showing the effect on RWA under the IRB approach of credit derivatives used for CRM is provided on page 13.
CR8	Present a flow statement explaining variations in the credit risk-weighted assets determined under an IRB approach.
CRO	Q4 2018 Supplementary Regulatory Capital Information: A table showing a RWA flow statements of credit risk exposures under IRB is provided on page 13.
	Provide backtesting data to validate the reliability of probability of default (PD) calculations.
CR9	2018 Annual Report: Qualitative information regarding the backtesting of IRB models is provided on pages 88 to 90 and page 112 of the MD&A.
	Q4 2018 Supplementary Regulatory Capital Information: A table showing the results of the IRB backtesting of PD per portfolio is provided on page 25.
0040	Provide quantitative disclosures of the bank's specialized lending and equity exposures using the simple risk-weight approach.
CR10	BMO does not use the simple risk-weight method for specialized lending and equity exposures.
Counter	party Credit Risk (CCR)
	Describe the main characteristics of CCR management.
CCRA	2018 Annual Report: Qualitative disclosure related to CCR is provided on pages 87 to 88.
	The amount of collateral to be posted in the event of a downgrade to the bank's current credit rating is provided on page 106 of the MD&A.
CCR1	Provide a comprehensive view of the methods used to calculate CCR regulatory requirements and the main parameters used within each method.
CCKI	Q4 2018 Supplementary Regulatory Capital Information: An analysis of CCR exposures by approach is provided on page 16.
CCR2	Provide the credit valuation adjustment (CVA) regulatory calculations with a breakdown by standardized and advanced approaches.
CCRZ	Q4 2018 Supplementary Regulatory Capital Information: A table showing the CVA capital charge is provided on page 16.
CCR3	Provide a breakdown of CCR exposures calculated according to the standardized approach: by portfolio and by risk weight.
CCK3	Q4 2018 Supplementary Regulatory Capital Information: A table showing standardized approach CCR exposures by regulatory portfolio and risk weight is provided on page 17.
CCR4	Provide all relevant parameters used for the calculation of CCR capital requirements for IRB models.
CCR4	Q4 2018 Supplementary Regulatory Capital Information: A table showing IRB CCR exposures by portfolio and PD scale is provided on page 18.
	Provide a breakdown of all types of collateral posted or received by the bank to support or reduce the CCR exposures related to derivative transactions or to securities financing transactions (SFTs),
CCR5	including transactions cleared through a CCP.
	Q4 2018 Supplementary Regulatory Capital Information: Composition of collateral for CCR exposures is provided on page 19.
CCR6	Illustrate the extent of the bank's exposures to credit derivative transactions broken down between derivatives bought or sold.
OOILO	Q4 2018 Supplementary Regulatory Capital Information: A table showing credit derivatives exposures is provided on page 19.
CCR7	Present a flow statement explaining changes in CCR RWA determined under the Internal Model Method (IMM) for CCR.
00117	BMO does not use the IMM for measuring exposure at default for exposures subject to the CCR framework.
CCR8	Provide a comprehensive picture of the bank's exposures to central counterparties.
	Q4 2018 Supplementary Regulatory Capital Information: A table showing exposures to central counterparties is provided on page 20.
Securitiz	
	Provide qualitative information on the bank's strategy and risk management with respect to its securitization activities.
SECA	2018 Annual Report: Qualitative disclosures related to securitization exposures are provided on pages 76 and 89 of the MD&A and in Note 1 on page 148 and in Note 7 on pages 165 to 167 of the
	consolidated financial statements.
	Present the bank's securitization exposures in its banking book, including securitizations where the risk transference criteria has not been met.
SEC1	Q4 2018 Supplementary Regulatory Capital Information: A table showing securitization exposures in the banking book, including those that did not achieve risk transference, is provided on
	page 21.
SEC2	Present the bank's securitization exposures in its trading book.
	Q4 2018 Supplementary Regulatory Capital Information: A table showing securitization exposures in the trading book is provided on page 22.
	Present securitization exposures in the banking book when the bank acts as originator or sponsor and the associated capital requirements.
SEC3	Q4 2018 Supplementary Regulatory Capital Information: A table showing securitization exposures in the banking book and associated regulatory capital requirements (bank acting as originator or
	as sponsor) is provided on page 23.
0=04	Present securitization exposures in the banking book when the bank acts as investor and the associated capital requirements.
SEC4	Q4 2018 Supplementary Regulatory Capital Information: A table showing securitization exposures in the banking book and associated regulatory capital requirements (bank acting as investor) is
	provided on page 23.
Market F	
	OSFI revised Pillar 3 market risk disclosure requirements allow for a continuation of the existing Basel 2.5 market risk disclosures until the implementation of the next phase of Pillar 3 disclosures in
	Canada. As a result, the bank's market risk disclosures continue to be based on Basel 2.5 disclosure requirements.
Operation	onal Risk

Interest Rate Risk in the Banking Book (IRRBB)
Provide qualitative information on IRRBB

Provide qualitative information on IRRBB and include quantitative disclosure on the structural balance sheet's interest rate sensitivity.

2018 Annual Report: Qualitative disclosures related to IRRBB are provided on pages 98 to 99 of the MD&A.

2018 Annual Report: Qualitative disclosures related to operational risk are provided on pages 109 to 110 of the MD&A.

Quantitative disclosures related to IRRBB are provided on page 99 of the MD&A.

Provide qualitative information on operational risk.

BASEL III REGULATORY CAPITAL (All-in basis) (1) (2)	ASEL III REGULATORY CAPITAL (All-in basis) (1) (2)												
	Cross	2018 Q4	2018 Q3	2018 Q2	2018 Q1	2017 Q4	2017 Q3	2017					
(\$ millions except as noted) Common Equity Tier 1 Capital: instruments and reserves	reference (3)							40.070					
Directly issued qualifying common share capital plus related stock surplus Retained earnings	a+b c	13,229 25,856	13,226 24,909	13,230 24,119	13,326 23,902	13,339 23,709	13,349 23,183	13,379 22,703					
3 Accumulated other comprehensive income (and other reserves) 6 Common Equity Tier 1 Capital before regulatory adjustments	d	2,302 41,387	2,381 40,516	2,157 39.506	1,360 38,588	3,066 40,114	2,162 38.694	4,491 40,573					
Common Equity Tier 1 Capital before regulatory adjustments		41,307	40,516	39,506	30,300	40,114	36,094	40,573					
7 Prudential valuation adjustments		203	149	146	112	107	103	99					
Goodwill (net of related tax liability) Other intangibles other than mortgage-servicing rights (net of related tax liability)	e+p1-f g-h	6,283 1,978	6,186 1,920	6,175 1.893	5,981 1,826	6,085 1.800	5,896 1,777	6,397 1.844					
10 Deferred tax assets excluding those arising from temporary differences (net of related tax liability)	i-j	907	972	976	1,011	1,405	1,313	1,456					
11 Cash flow hedge reserve 12 Shortfall of provisions to expected losses	k k1	(1,074)	(885)	(768)	(746)	(182)	(191)	174					
14 Gains or losses due to changes in own credit risk on fair valued liabilities (4)		(153)	(140)	(168)	(217)	(136)	(94)	(147)					
15 Defined benefit pension fund net assets (net of related tax liability) 16 Investments in own shares (if not already netted off paid-in capital on reported balance sheet)	l-m n	522	626	459	456	402	286	195					
22 Amount exceeding the 15% threshold				_		_	_	-					
23 of which: significant investments in the common stock financials 24 of which: mortgage servicing rights	h1 j1	-	-	_				5					
25 of which: deferred tax assets arising from temporary differences	i1	-	-	-	-	-	-	-					
28 Total regulatory adjustments to Common Equity Tier 1 Capital 29 Common Equity Tier 1 Capital (CET1)		8,666 32,721	8,828 31.688	8,713 30,793	8,423 30.165	9,481 30.633	9,090 29.604	10,018 30,555					
Additional Tier 1 Capital: instruments		32,721	31,000	30,793	30,105	30,033	29,004	30,555					
30 Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	01	4,050	3,650	3,650	3,650	3,650	3,650	3,250					
 Directly issued capital instruments subject to phase out from Additional Tier 1 (5) Additional Tier 1 instruments (and CET1 instruments not otherwise included) issued by subsidiaries and held by third 	р	740	740	1,040	1,040	1,040	1,040	1,040					
parties (amount allowed in group AT1)	s	-	-	-	-	-	-	-					
35 of which: instruments issued by subsidiaries subject to phase out 36 Additional Tier 1 Capital before regulatory adjustments	1	4,790	4,390	4,690	4,690	4,690	4,690	4,290					
Additional Tier 1 Capital: regulatory adjustments					•		,,,,,,						
 37 Investments in own Additional Tier 1 instruments Significant investments in the capital of banking, financial and insurance entities that are 	n1	78	140	56	39	2	-	4					
outside the scope of regulatory consolidation, net of eligible short positions	t	213	213	213	213	213	213	213					
41 Other deductions from Tier 1 Capital as determined by OSFI 41b of which: Valuation adjustment for less liquid positions		-	-	-	-	-	-	-					
43 Total regulatory adjustments applied to Additional Tier 1 Capital		291	353	269	252	215	213	217					
44 Additional Tier 1 Capital (AT1) 45 Tier 1 Capital (T1 = CET1 + AT1)		4,499	4,037 35,725	4,421 35,214	4,438	4,475 35 108	4,477	4,073					
Tier 2 Capital: instruments and provisions		37,220	35,725	35,214	34,603	35,108	34,081	34,628					
46 Directly issued qualifying Tier 2 instruments plus related stock surplus	m1	6,639	5,468	5,511	5,442	3,976	4,011	3,258					
47 Directly issued capital instruments subject to phase out from Tier 2 Capital 48 Tier 2 Capital instruments (and CET1 and AT1 instruments not included) issued by subsidiaries and held by third	u	143	150	116	1,021	1,053	1,852	1,860					
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	235	231	222	273	509	476	603					
51 Tier 2 Capital before regulatory adjustments	*	7,017	5,849	5,849	6,736	5,538	6,339	5,721					
Tier 2 Capital: regulatory adjustments 52 Investments in own Tier 2 instruments	g1	71	91	72	79		6						
55 Significant investments in the capital of banking, financial and insurance entities that are	qı	/1	91	12	79	-		-					
outside the scope of regulatory consolidation, net of eligible short positions 57. Total regulatory adjustments to Tier 2 Capital	x	50	50	50	50	50	50	50					
58 Tier 2 Capital (T2)		121 6.896	141 5,708	122 5,727	129 6,607	50 5,488	56 6.283	50 5,671					
59 Total Capital (TC = T1 + T2)		44,116	41,433	40,941	41,210	40,596	40,364	40,299					
60a Common Equity Tier 1 (CET 1) Capital RWA (7)		289,237	277,506	273,011	270,577	269,466	264,819	270,791					
60b Tier 1 Capital RWA (7)		289,420	277,681	273,184	270,577	269,466	264,819	270,791					
60c Total Capital RWA (7) Capital Ratios		289,604	277,857	273,357	270,577	269,466	264,819	270,791					
61 Common Equity Tier 1 ratio (as percentage of risk-weighted assets)		11.3%	11.4%	11.3%	11.1%	11.4%	11.2%	11.3%					
62 Tier 1 ratio (as percentage of risk-weighted assets) 63 Total Capital ratio (as percentage of risk-weighted assets)		12.9% 15.2%	12.9% 14.9%	12.9% 15.0%	12.8% 15.2%	13.0% 15.1%	12.9% 15.2%	12.8% 14.9%					
64 Buffer requirement (minimum CET1 requirement plus capital conservation buffer plus G-SIB buffer requirement plus D-		15.2%	14.970	15.0%	15.2%	15.1%		14.9%					
SIB buffer requirement, expressed as a percentage of risk-weighted assets)		8.0% 3.5%	8.0%	8.0% 3.5%	8.0% 3.5%	8.0% 3.5%	8.0% 3.5%	8.0% 3.5%					
65 of which: capital conservation buffer requirement 66 of which: bank specific countercyclical buffer requirement		3.5% 0.0%	0.0%	0.0%	3.5% 0.0%	3.5% 0.0%	3.5% 0.0%	0.0%					
68 Common Equity Tier 1 available to meet buffers (as a % of risk weighted assets)		11.3%	11.4%	11.3%	11.1%	11.4%	11.2%	11.3%					
OSFI all-in target 69 Common Equity Tier 1 all-in target ratio		8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%					
Amounts below the thresholds for deduction													
72 Non-significant investments in the capital of other financials 73 Significant investments in the common stock of financials	y - z a1	642 1,660	534 1,694	575 1,635	411 1,568	359 1,481	325 1,461	274 1,422					
74 Mortgage servicing rights (net of related tax liability)	b1	52	51	49	47	48	46	49					
75 Deferred tax assets arising from temporary differences (net of related tax liability)	c1 - d1	1,677	1,675	1,597	1,579	1,952	1,913	2,122					
Applicable caps on the inclusion of provisions in Tier 2 Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardized approach (prior to													
application of cap)		208	204	204	204	221	216	245					
77 Cap on inclusion of provisions in Tier 2 under standardized approach 78 Provisions eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings based approach (prior to		208	204	204	204	221	216	245					
application of cap)		1,277	1,270	1,255	1,237	1,516	1,483	1,605					
79 Cap on inclusion of provisions in Tier 2 under internal ratings-based approach Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2013 and		27	27	18	69	287	260	357					
1 Jan 2022)													
82 Current cap on AT1 instruments subject to phase out arrangements 83 Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities)	e1 + f1	1,729	1,729	1,729	1,729	2,161	2,161	2,161					
84 Current cap on T2 instruments subject to phase out arrangements	61 7 11	2,054	2,054	2,054	2,054	2,567	2,567	2,567					
85 Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities)		-	-	-	-	-	-	-					

Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities)

(1) "All-ni" regulator, agoitated sussements that all Based III regulatory adoptive interests 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 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, however certain rows are removed because there are no values in such rows.

(3) Cross reference to Consolidated Balance Sheet under regulatory scope (page 4).

(4) For regulatory capital purposes only. Not included in consciliated balance shade the same row of the construction of

CONSOLIDATED BALANCE SHEET

(\$ millions except as noted)	LINE	Balance sheet as in Report to Shareholders Q4 2018	Under regulatory scope of consolidation <i>(1)</i> Q4 2018	Cross Reference (2)
Assets				
Cash and Cash Equivalents	1	42.142	42.113	
Interest Bearing Deposits with Banks	2	8,305	8,299	
Securities	3	180.935	172.612	
Investments in own shares CET1 (if not already netted off paid-in capital on reported balance sheet)	4	,	-	n
Investments in own Additional Tier 1 instruments not derecognized for accounting purposes	5		78	n1
Investments in own Tier 2 instruments not derecognized for accounting purposes	6		71	q1
Non-significant investments in the capital of other financials below threshold (3)	7		21.771	y
Significant investments in deconsolidated subsidiaries and other financial institutions (4)	8		1,923	t+x+a1
Significant investments in capital of other financial institutions reflected in regulatory capital	-		, ,	
Amount exceeding the 15% threshold	9		-	h1
Significant investment in common stock of financials below threshold	10		462	
Goodwill embedded in significant investments	11		89	p1
Securities Borrowed or Purchased Under Resale Agreements	12	85,051	85,051	
Loans			•	
Residential mortgages	13	119.620	119.620	
Consumer installment and other personal	14	63,225	63,225	
Credit cards	15	8,329	8,329	
Business and governments	16	194,456	194,239	
Allowance for credit losses	17	(1,639)	(1,638)	
Allowance reflected in Tier 2 regulatory capital	18	, , ,	235	w
Shortfall of provisions to expected loss	19		-	k1
Total net loans and acceptances	20	383,991	383,775	
Other Assets				
Derivative instruments	21	26,204	26,201	
Customers' liability under acceptances	22	18,585	18,585	
Premises and equipment	23	1,986	1,834	
Goodwill	24	6.373	6.373	e
Intangible assets	25	2.272	2.272	q
Current tax assets	26	1.515	1.483	9
Deferred tax assets (5)	27	2.037	2.037	
Deferred tax assets excluding those arising from temporary differences	28	2,007	1.050	1
	29		,	-
Deferred tax assets arising from temporary differences			1,942	c1
of which Deferred tax assets arising from temporary differences below the threshold	30		1,942	
of which amount exceeding 15% threshold	31		-	i1
Other	32	14,652	13,651	
Defined-benefit pension fund net assets	33		669	1
Mortgage servicing rights	34		52	
of which Mortgage servicing rights under the threshold	35		52	b1
of which amount exceeding the 15% threshold	36		-	j1
Total Assets	37	774.048	764.286	•

(1) Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$9,385 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 (\$377 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.

(2) Cross Reference to Basel III Regulatory Capital (All-in basis) (page 3).

(3) Includes synthetic holdings of non-significant capital investments in banking, financial and insurance entities.

(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.

(5) Deferred tax assets and liabilities are presented on the balance sheet net by legal jurisdiction.

	LINE	Balance sheet as in Report to Shareholders	Under regulatory scope of consolidation (1)	Cross Reference (2)
(\$ millions except as noted)	#	Q4 2018	Q4 2018	
Liabilities and Equity	**			
Total Deposits	38	522,051	522,051	
Other Liabilities		322,000	,	
Derivative instruments	39	24.411	24,230	
Acceptances	40	18,585	18,585	
Securities sold but not yet purchased	41	28,804	28,804	
Non-significant investments in the capital of other financials	42	,	21.129	z
Securities lent or sold under repurchase agreement	43	66,684	66,684	
Securitization and structured entities' liabilities	44	25,051	25,051	
Current tax liabilities	45	50	50	
Deferred tax liabilities (5)	46	74	71	
related to goodwill	47		179	f
related to intangibles	48		294	h
related to deferred tax assets excluding those arising from temporary differences	49		143	j
related to defined-benefit pension fund net assets	50		147	m
related to deferred tax assets arising from temporary differences,				
excluding those realizable through net operating loss carryback	51		265	d1
Other	52	35,829	26,251	
of which: liabilities of subsidiaries, other than deposits	53		-	
Less: amount (of liabilities of subsidiaries) phased out	54		-	
Liabilities of subsidiaries after phase out	55		-	٧
Total other liabilities	56	199,488	189,726	
Subordinated Debt				
Subordinated debt	57	6,782	6,782	
Qualifying subordinated debt	58		6,639	m1
Non qualifying subordinated debt	59		143	
of which redemption has been announced (in the last month of the quarter)	60		-	
Less: regulatory amortization	61		-	
Non qualifying subordinated debt subject to phase out	62		143	
Less: amount phased out	63		-	
Non qualifying subordinated debt after phase out	64		143	u
Equity				
Preferred shares	65	4,340	4,340	
Directly issued qualifying Additional Tier 1 instruments	66		4,050	01
Non-qualifying preferred shares for accounting purposes	67		-	
Non-qualifying preferred shares subject to phase out	68		290	
Less amount (of preferred shares) phased out	69			e1
Non qualifying preferred shares after phase out	70		290	p
Common shares	71	12.929	12.929	۲
Directly issued qualifying CET1	72	12,323	12,929	а
Contributed surplus	73	300	300	a b
·	74		25.856	
Retained earnings	74 75	25,856	25,856	C
Accumulated other comprehensive income	75 76	2,302		d k
of which: Cash flow hedges			(1,074)	к
Other AOCI	77 78	45 707	3,376	
Total shareholders' equity Total Liabilities and Equity	78 79	45,727 774.048	45,727 764.286	

	SUMMARY COMPARISON OF ACCOUNTING ASSETS VS. LEVERAGE RATIO EXPOSURE MEASURE (1) S millions except as noted)		ВМ	MO 👝 Finan	cial Group
,		2018	2018	2018	2018
	ltem .	Q4	Q3	Q2	Q1
	1 Total consolidated assets as per published financial statements	774,048	765,318	743,569	727,909
	2 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	(9,757)	(9,480)	(9,175)	(9,094)
	3 Adjustment for fiduciary assets recognised on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure	-	- 1	-	-
	4 Adjustments for derivative financial instruments	3,761	1,506	1,775	(5,606)
	5 Adjustment for securities financing transactions (i.e. repo assets and similar secured lending)	8,347	3,069	2,930	6,694
	6 Adjustment for off-balance sheet items (i.e. credit equivalent amounts of off-balance sheet exposures)	108,817	102,792	101,147	97,832
	7 Other adjustments	(9,110)	(9,320)	(9,152)	(8,892)
	8 Leverage Ratio Exposure	876,106	853,885	831,094	808,843

LEVERAGE RATIO COMMON DISCLOSURE (1)						
(\$ millions except as noted)	Leverage ratio framework					
	2018	2018	2018	201		
ltem .	Q4	Q3	Q2	Q		
On-balance sheet exposures						
1 On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral)	653,039	629,354	613,128	603,873		
2 (Asset amounts deducted in determining Basel III Tier 1 capital)	(9,110)	(9,320)	(9,152)	(8,892		
3 Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 and 2)	643,929	620,034	603,976	594,981		
Derivative exposures						
4 Replacement cost associated with all derivative transactions (i.e., net of eligible cash variation margin)	6,515	6,169	7,332	6,067		
5 Add-on amounts for PFE associated with all derivative transactions	27,114	23,943	24,214	23,736		
6 Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework	-	-	-	-		
7 (Deductions of receivables assets for cash variation margin provided in derivative transactions)	(2,624)	(3,050)	(2,436)	(3,217		
8 (Exempted CCP-leg of client cleared trade exposures)	(1,044)	(751)	(751)	(444		
9 Adjusted effective notional amount of written credit derivatives	1,200	142	123	116		
10 (Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(1,200)	(142)	(123)	(116		
11 Total derivative exposures (sum of lines 4 to 10)	29,961	26,311	28,359	26,142		
Securities financing transaction exposures						
12 Gross SFT assets recognised for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	95,159	103,311	95,313	88,298		
13 (Netted amounts of cash payables and cash receivables of gross SFT assets)	(7,675)	(3,591)	(3,636)	(4,455		
14 Counterparty credit risk (CCR) exposure for SFTs	5,914	5,028	5,935	6,045		
15 Agent transaction exposures	-	-	-	-		
16 Total securities financing transaction exposures (sum of lines 12 to 15)	93,398	104,748	97,612	89,888		
Other off-balance sheet exposures						
17 Off-balance sheet exposure at gross notional amount	343,144	326,819	322,633	312,044		
18 (Adjustments for conversion to credit equivalent amounts)	(234,326)	(224,027)	(221,486)	(214,212		
19 Off-balance sheet items (sum of lines 17 and 18)	108,818	102,792	101,147	97,832		
Capital and Total Exposures						
20 Tier 1 capital	37,220	35,725	35,214	34,603		
21 Total Exposures (sum of lines 3, 11, 16 and 19)	876,106	853,885	831,094	808,843		
Leverage Ratios	,					
22 Basel III leverage ratio	4.2%	4.2%	4.2%	4.3%		

⁽¹⁾ Pursuant to revision by OSFI to the "Public Disclosure Requirements related to Basel III Leverage Ratio" published in December 2017, effective Q1 2018, the information is on an all-in basis only.

BMO (A) Financial Group COMMON EQUITY TIER 1 (CET 1) CAPITAL RISK-WEIGHTED ASSETS BY OPERATING GROUPS LINE 2018 2018 2018 2018 2017 2017 # Q4 Q3 Q2 Q1 Q4 Q3 (\$ millions except as noted) 173,039 163,039 160,839 Personal and Commercial Banking 178,313 170,545 165,005 Wealth Management 2 19,069 18,560 17,538 16,778 16,276 16,170 BMO Capital Markets 3 80.606 74.663 73.875 69.296 68.131 68.023 Corporate Services, including Technology and Operations, plus excess of Basel Capital Floor RWA over Basel III RWA Total Common Equity Tier 1 Capital Risk-Weighted Assets 11.249 11,244 11,053 21,464 20,054 19,787

289,237

277,506

273,011

270,577

269,466

264,819

FLOW STATEMENT OF BASEL III REGULATORY CAPITAL							
(\$ millions except as noted)		2018 Q4					201 Q:
Common Equity Tier 1 Capital							
Opening Balance	6	31,688	30,793	30,165	30,633	29,604	30,555
New capital issues	7	26	18	7	48	9	52
Redeemed capital	8	(107)	(102)	(488)	(294)	(91)	(349
Gross dividends (deduction)	9	(657)	(664)	(642)	(645)	(631)	(633
Profit for the quarter (attributable to shareholders of the parent company)	10	1,695	1,536	1,246	973	1,227	1,387
Removal of own credit spread (net of tax)	11	13	(28)	(48)	80	42	(53
Movements in other comprehensive income		-	(-)	(- /			(
- Currency Translation Differences	12	241	102	878	(959)	814	(2,158
- Fair value through other comprehensive income securities (1)	13	(71)	9	(128)	(126)	10	(19
– Other (2)	14	(60)	230	69	(2)	71	214
Goodwill and other intangible assets (deduction, net of related tax liability)	15	(155)	(37)	(262)	78	(212)	567
Other, including regulatory adjustments and transitional arrangements	-	(/	(-)	, ,		,	
 Deferred tax assets that rely on future profitability (excluding those arising from temporary differences) 	16	(65)	4	35	394	(92)	143
- Prudential Valuation Adjustments	17	(55)	(3)	(34)	(5)	(4)	(5
- Other (3)	18	228	(170)	(5)	(10)	()	(97
Closing Balance	19	32,721	31,688	30,793	30,165	30,633	29,604
Other non-core Tier 1 (Additional Tier 1) Capital							
Opening Balance	20	4,037	4,421	4,438	4,475	4,477	4,073
New non-core tier 1 (Additional Tier 1) eligible capital issues	21	400	- (222)	-	-	-	400
Redeemed capital	22	-	(300)	- (47)	- (27)	- (2)	-
Other, including regulatory adjustments and transitional arrangements (4) Closing Balance	23	62	(84)	(17)	(37)	(2)	4,477
Total Tier 1 Capital	24 25	4,499 37,220	4,037 35,725	4,421 35,214	4,438 34,603	4,475 35,108	34,081
Total Floring Todal	20	01,220	00,720	00,214	04,000	00,100	04,001
Tier 2 Capital							
Opening Balance	26	5,708	5,727	6,607	5,488	6,283	5,671
New Tier 2 eligible capital issues	27	1,119	-	-	1,538	-	850
Redeemed capital	28	-	-	(900)	-	(800)	-
Amortization adjustments	29	-	-	-	-	-	
Other, including regulatory adjustments and transitional arrangements (5)	30	69	(19)	20	(419)	5	(238
Closing Balance	31	6,896	5,708	5,727	6,607	5,488	6,283
Total Regulatory Capital	32	44,116	41,433	40,941	41,210	40,596	40,364

⁽¹⁾ Q4 2017 and prior periods represent 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: Corresponding deductions from Additional Tier 1 Capital and transitional arrangements (phased-out amount).

⁽⁵⁾ Includes: Eligible allowances, transitional arrangements (phased-out amount) and corresponding deductions from Tier 2 Capital.

		вмо 🕮 г	inancial Group		
OV1 - OVERVIEW OF RWA	RWA	RWA (1)			
	Q4 2018	Q3 2018	Q4 2018		
(\$ millions)	а	b	С		
1 Credit risk (excluding counterparty credit risk (CCR))	215,193	207,683	17,215		
2 Of which standardized approach (SA)	39,288	38,071	3,143		
3 Of which internal rating-based (IRB) approach	175,905	169,612	14,072		
4 Counterparty credit risk	13,481	12,978	1,079		
5 Of which standardized approach for counterparty credit risk (SA-CCR)	-	-	-		
6 Of which internal model method (IMM)	-	-	-		
6a Of which current exposure method (CEM)	4,746	4,439	380		
6b Of which comprehensive approach for credit risk mitigation (for SFTs)	3,171	3,236	254		
6c Of which CVA capital charge	4,900	4,684	392		
6d Of which exposures to QCCP	664	619	53		
7 Equity positions in banking book under market-based approach	-	-	-		
8 Equity investments in funds – look-through approach	87	98	7		
9 Equity investments in funds – mandate-based approach	731	619	58		
10 Equity investments in funds – fall-back approach	118	110	9		
11 Settlement risk	15	12	1		
12 Securitization exposures in banking book	2,404	2,072	192		
13 Of which IRB ratings-based approach (RBA)	544	279	44		
14 Of which IRB Supervisory Formula Approach (SFA)	1,860	1,793	148		
15 Of which SA/simplified supervisory formula approach (SSFA)	-	-	-		
16 Market risk	13,532	11,097	1,083		
17 Of which standardized approach (SA) (2)	258	39	21		
18 Of which internal model approaches (IMM)	13,274	11,058	1,062		
19 Operational risk	35,205	34,284	2,817		
20 Of which Basic Indicator Approach	49	48	4		
21 Of which Standardized Approach	2,019	1,977	162		
22 Of which Advanced Measurement Approach	33,137	32,259	2,651		
23 Amounts below the thresholds for deduction (subject to 250% risk weight)	8,471	8,553	678		
24 Floor adjustment (3)	-	-	-		
25 Total	289,237	277,506	23,139		

RWA increased \$11.7B due to business growth, including the acquisition of KGS-ALPHA and the impact of foreign exchange movements, partially offset by positive book quality changes.

	Q4 2018							
RWA CVA PHASE-IN CALCULATION (4)		0)/4	00510			•	RWA Net CVA	
LIP #	NE #	CVA (A)	OSFI Scalars (B)	phase-in (C)	Adjustments (D)=A*(100%-B)	Capital Floor (E)	phase-in (F)=C-D+E	
Common Equity Tier 1 (CET 1) Capital RWA	1	6,124	80%	290,462	1,225	-	289,237	
Tier 1 Capital RWA 2	2	6,124	83%	290,462	1,042	-	289,420	
Total Capital RWA	3	6,124	86%	290,462	858	-	289,604	

CAPITAL RATIOS FOR SIGNIFICANT BANK SUBSIDIARIES		2018	2018	2018	2018
		Q4	Q3	Q2	Q1
Bank of Montreal Mortgage Corporation - Basel III					
All-in Basis - Basel III (5)					
Common Equity Tier 1 ratio	4	21.6%	21.8%	23.5%	20.3%
Tier 1 ratio	5	21.6%	21.8%	23.5%	20.3%
Total capital ratio	6	22.1%	22.3%	24.1%	20.7%
BMO Harris Bank N.A Basel III (6)					
Tier 1 ratio	7	12.5%	12.5%	12.8%	12.8%
Total capital ratio	8	13.7%	13.7%	14.0%	14.0%

- (1) The scaling factor is applied to the risk-weighted asset amounts as applicable.
- (2) Standardized approach market risk RWA reflects specific interest rate risk on securitization positions.
- (3) 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 Q4 2018 and Q3 2018.
- (4) Commencing Q1 2014, a new CVA regulatory capital charge has been applied to derivatives. For Q3 2014, OSFI introduced a new three tier capital approach with different scalars for each tier. See above for calculation and scalars' percentages. CET1 CVA phase-in factors are 64% in 2016, 72% in 2017 and 80% in 2018.
- (5) 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.
- (6) 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: September 2018, June 2018, March 2018, and December 2017.

LI1 - DIFFERENCES BETWEEN ACCOUNTING AND REGULATORY SCOPES OF CONSOLIDATION AND MAPPING OF FINANCIAL

STATEMENTS WITH REGULATORY RISK CATEGORIES			Q4 2018										
			Carrying values of items:										
LINE		Carrying values under scope of regulatory consolidation (1)	Subject to credit risk framework	Subject to counterparty credit risk framework	Subject to the securitization framework	Subject to the market risk framework	Not subject to capital requirements or subject to deduction from capital						
(\$ millions) #	а	b	С	d	е	f	g						
ASSETS													
Cash and Cash Equivalents 1	42,142	42,113	40,939	1,174	-	-	-						
Interest Bearing Deposits with Banks 2	8,305	8,299	8,218	-	-	81	-						
Securities 3	180,935	172,612	71,806	-	872	99,544	390						
Securities Borrowed or Purchased Under Resale Agreements 4	85,051	85,051	-	85,051	-	-	-						
Loans 5													
Residential mortgages 6	119,620	119,620	118,508	-	1,079	-	33						
Consumer instalment and other personal 7	63,225	63,225	61,219	-	48	-	1,958						
Credit cards 8	8,329	8,329	2,470	-	1,873	-	3,986						
Businesses and governments 9	194,456	194,239	184,968	2,341	6,930	-	-						
Allowance for credit losses 10	(1,639)	(1,638)	(1,465)	-	(173)	-	-						
Other Assets													
Derivative instruments 11	26,204	26,201	-	26,201	-	24,401	-						
Customers' liability under acceptances 12	18,585	18,585	18,585	-	-	-	-						
Premises and equipment 13	1,986	1,834	1,834	-	-	-	-						
Goodwill 14	6,373	6,373	-	-	-	-	6,373						
Intangible assets 15	2,272	2,272	-	-	-	-	2,272						
Current tax assets 16	1,515	1,483	1,483	-	-	-	-						
Deferred tax assets 17	2,037	2,037	1,677	-	-	-	360						
Other Total 18	14,652	13,651	12,829	-	-	153	669						
Total assets 19	774,048	764,286	523,071	114,767	10,629	124,179	16,041						
LIABILITIES													
Deposits 20	522,051	522,051	_	_	_	15,309	506,742						
Other Liabilities	,,,,	,,,,				-,	,						
Derivative instruments 21	24,411	24,230	-	24,230	-	21,380	_						
Acceptances 22	18,585	18,585	-	-	-	-	18,585						
Securities sold but not yet purchased 23	28,804	28.804	-	_	_	28,804	- 1						
Securities lent or sold under repurchase agreements 24	66,684	66,684	_	66,684	_	_	_						
Securitization and liabilities related to structured entities 25	25,051	25,051	-	,	-	-	25,051						
Current tax liabilities 26	50	50	-	-	-	-	50						
Deferred tax liabilities 27	74	71	-	_	-	_	71						
Other 28	35,829	26,251	-	_	_	_	26,251						
Subordinated Debt 29	6,782	6,782	_	_	_	_	6,782						
Total liabilities 30	728,321	718,559	-	90,914	-	65,493	583,532						

⁽¹⁾ Balance sheet under regulatory scope does not include the following entities: BMO Life Insurance Company and BMO Reinsurance Limited. BMO Life Insurance Company (\$9,385 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 (\$377 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

V	ALUES IN FINANCIAL STATEMENTS	Q4 2018								
				Items su	bject to:					
				Counterparty						
			Credit risk	credit risk	Securitization	Market risk				
		Total	framework	framework	framework	framework				
(\$	millions)	а	b	С	d	е				
1	Asset carrying value amount under scope of regulatory consolidation (as per template LI1) (1)	748,245	523,071	114,767	10,629	124,179				
2	Liabilities carrying value amount under regulatory scope of consolidation (as per template LI1) (1)	135,027	-	90,914	-	65,493				
3	Total net amount under regulatory scope of consolidation	613,218	523,071	23,853	10,629	58,686				
4	Off-balance sheet amounts	232,812	162,545	57,019	13,248	-				
5	Differences due to different netting rules, other than those already included in row 2	8,162	-	8,162	-	-				
6	Differences due to consideration of provisions	1,922	1,749	-	173	-				
7	Exposures related to liability repo-style transactions	133,367	-	133,367	-	-				
8	Potential future exposure on derivatives	26,958	-	26,958	-	-				
9	Differences due to consideration of CRM	(186,443)	(64)	(185,923)	(456)	-				
10	Exposure amounts considered for regulatory purposes (2)	829,996	687,301	63,436	23,594	58,686				

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

				ВМ	O 🛎 Financial Group				
CR1 - CREDIT QUALITY OF ASSETS (1)		Q4 2018							
		Gross carryi	ng values of						
		Defaulted exposures	Non-defaulted	Allowances /	Net values				
	LINE	(2) (3)	exposures	impairments	(a + b - c)				
(\$ millions)	#	а	b	С	d				
Loans	1	2,038	383,712	1,465	384,285				
Debt securities	2	-	67,599	2	67,597				
Off-balance sheet exposures	3	241	154,558	229	154,570				
Total	4	2,279	605,869	1,696	606,452				

CF	2 - CHANGES IN STOCK OF DEFAULTED LOANS AND DEBT SECURITIES (3) (4)	Q4 2018
(\$ m	illions)	а
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

		Q4 2018									
C	R3 - CREDIT RISK MITIGATION TECHNIQUES - OVERVIEW (1) (3) (5) (6) (7)	Unsecured		Exposures							
		exposures: carrying	Exposures to be	secured by	Exposures secured by	Exposures secured by					
		amount	secured	collateral	financial guarantees	credit derivatives					
(\$	millions)	а	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) 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.
- (4) Defaulted balances exclude off-balance sheet exposures.
- (5) 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.
- (6) 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).
- (7) Defaulted balances are net of allowance for credit losses on impaired loans, excluding off-balance sheet instruments and undrawn commitments.

MITIGATION (CRM) EFFECTS (1) (2) (\$ millions)			04:	2018		
(+	Exposures befo	re CCF and CRM		t CCF and CRM	RWA and R	WA density
	On-balance sheet	Off-balance sheet	On-balance sheet	Off-balance sheet		
	amount	amount	amount	amount	RWA	RWA density
Asset classes	а	b	С	d	е	f
Sovereigns and their central banks	12	7	12	3	-	0.009
2 Non-central government public sector entities	150	23	150	12	32	20.009
3 Multilateral development banks	-	-	-	-	-	0.009
4 Banks	59	207	59	80	28	20.009
5 Securities firms	7	51	7	18	5	20.009
6 Corporates	16,450	8,850	16,450	3,450	19,722	99.119
7 Regulatory retail portfolios	9,131	3,923	9,131	4	6,687	73.199
8 Secured by residential property	4,408	192	4,408	74	1,728	38.549
Secured by commercial real estate	694	128	694	62	756	100.009
10 Equity	1,749	290	1,749	145	1,153	60.889
11 Defaulted exposures	468	26	468	11	647	135.129
12 Higher-risk categories (3)	96	129	96	65	241	150.009
13 Other assets	8,800	-	8,800	-	8,289	94.209
14 Total	42,024	13,826	42,024	3,924	39,288	85.519

CR5 - STANDARDIZED APPROACH - EXF	OSURES BY ASSE	CLASSES AND	RISK WEIGHTS	5 (1) (2) (4)										
(\$ millions)					Q4	2018								
										Total credit				
					Risk Weight					(post CCF				
	0%	10%	20%	35%	50%	75%	100%	150%	Others	and post-CRM)				
Asset classes	а	b	С	d	е	f	g	h	i	j				
Sovereigns and their central banks	15	-	-	-	-	-	-	-	-	15				
2 Non-central government public sector entities	-	-	162	-	-	-	-	-	-	162				
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				
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 (3)	-	-	-	-	-	-	-	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⁾ Non-defaulted exposures with risk weights equal to 150% (e.g. rated BB- or lower).

⁽⁴⁾ 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.

														BN	10 🕮 F	inancial Group
CR6 - IRB - CREDIT EXPOSURE BY PO (\$ millions except as noted)	ORTFOLIO AND PD I	RANGE (1) (2) (8)									Q4 2018					
(*						Original on	Off-balance						Average			
			Moody's Investors			Original on- balance sheet	sheet exposures	Average CCF	EAD post CRM	Average PD	Number of obligors	Average LGD	maturity		RWA	Provisions
Risk Profile	BMO Rating	PD Scale (%)	Service implied	Standard & Poor's implied equivalent	LINE #	gross exposure	pre-CCF	(3)	and post-CCF	(4)	(5)	(6)	(years) (7)	RWA	density	EL (9)
Canadian insured residential	BWO Rating		equivalent	Implied equivalent		a	U .		u u	·	·	y	"		اسداد	^
Exceptionally low to Very low Very low to Low		0.00 to < 0.15 0.15 to < 0.25			1 2	33,381	:	0.00 % 0.00 %	47,203	0.00 % 0.00 %	150,223	25.24 % 0.00 %		339	0.72 % 0.00 %	
Low		0.25 to < 0.50			3	-	-	0.00 %	-	0.00 %	-	0.00 %		-	0.00 %	-
Low Medium		0.50 to <0.75 0.75 to <2.50			4 5	8,616 2,660		0.00 % 0.00 %	-	0.00 % 0.00 %	18,313 7,200	0.00 % 0.00 %		- 1	0.00 % 0.00 %	
Medium to High		2.50 to <10.00			6	2,218	-	0.00 %	-	0.00 %	6,803	0.00 %		-	0.00 %	-
High Default		10.00 to <100.00 100.00 (Default)			7 8	186 142	- 1	0.00 % 0.00 %	-	0.00 % 0.00 %	894 729	0.00 % 0.00 %			0.00 % 0.00 %	
Sub-total Canadian uninsured residential					9	47,203	-		47,203		184,162			339		
Exceptionally low to Very low		0.00 to < 0.15			10	46,826	25,187	39.75 %	56,839	0.07 %	385,333	16.20 %		1,758	3.09 %	7
Very low to Low		0.15 to < 0.25 0.25 to < 0.50			11 12	7,407	1,461	25.23 % 0.00 %	7,776	0.18 % 0.00 %	50,398	17.31 % 0.00 %		529	6.81 % 0.00 %	2
Low		0.50 to < 0.75			13	10,309	23	71.83 %	10,326	0.60 %	40,602	14.75 %		1,419	13.74 %	9
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			14 15	6,848 4,198	576 29	20.29 % 23.31 %	6,965 4,205	1.24 % 6.92 %	34,761 12,105	15.71 % 13.06 %		1,654 2,247	23.75 % 53.43 %	13 38
High Default		10.00 to <100.00			16 17	379 149	32 10	21.21 % 13.44 %	386 150	38.20 %	2,510 1,098	14.18 % 14.11 %		302	78.20 %	20
Sub-total		100.00 (Default)			18	76,116	27,318	13.44 %	86,647	100.00 %	526,807	14.11 %		246 8,155	163.71 %	97 8
Non-Canadian residential Exceptionally low to Very low		0.00 to <0.15			19	1.481	5,764	58.41 %	4.847	0.03 %	45.447	68.48 %		324	6.69 %	1
Very low to Low		0.15 to < 0.25			20	4,526	80	100.00 %	4,606	0.18 %	15,256	30.18 %		547	11.87 %	3
Low Low		0.25 to <0.50 0.50 to <0.75			21 22	791 511	253	49.64 % 0.00 %	917 511	0.28 % 0.74 %	9,093 7,910	71.67 % 62.40 %		361 346	39.37 % 67.67 %	2 2
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			23	1,713 172	44 1	87.38 % 93.62 %	1,751	1.13 % 4.66 %	10,025 1,657	44.62 % 54.50 %		1,125 321	64.25 % 186.24 %	9
Medium to High		10.00 to <10.00			24 25	226	116	93.62 % 61.20 %	173 297	4.66 % 23.25 %	2,521	54.50 % 43.62 %		719	186.24 % 241.95 %	29
Default Sub-total		100.00 (Default)			26 27	415 9,835	6,258	0.00 %	415 13,517	100.00 %	18,630 110,539	50.01 %		1,369 5.112	330.13 %	160 211 160
Qualifying revolving retail																211 100
Exceptionally low to Very low Very low to Low		0.00 to <0.15 0.15 to <0.25			28 29	1,032 179	36,428 2,558	56.28 % 68.02 %	21,533 1,919	0.05 % 0.17 %	2,841,494 353,928	72.52 % 89.17 %		488 166	2.27 % 8.65 %	7 3
Low		0.25 to < 0.50			30	3,342	9,451	36.17 %	6,761	0.35 %	545,514	58.01 %		691	10.22 %	14
Low Medium		0.50 to <0.75 0.75 to <2.50			31 32	194 1,976	926 1,504	76.16 % 64.73 %	900 2,949	0.55 % 1.58 %	195,495 315,003	90.00 % 74.25 %		205 1,238	22.80 % 41.98 %	34
Medium to High High		2.50 to <10.00 10.00 to <100.00			32 33 34	1,177 396	709 207	92.65 % 64.94 %	1,833 531	5.08 % 26.36 %	379,920 106,424	79.95 % 71.43 %		1,807 962	98.56 % 181.26 %	72 96
Default		100.00 (Default)			35	65	19	41.50 %	73	100.00 %	4.202	53.93 %		222	303.14 %	33
Sub-total Retail small-and-medium-sized entities					36	8,361	51,802		36,499		4,741,980			5,779		263 33
Exceptionally low to Very low		0.00 to <0.15			37	1,281	2,586	73.87 %	3,194	0.09 %	74,336	60.97 %		437	13.69 %	2
Very low to Low Low		0.15 to < 0.25 0.25 to < 0.50			38 39	17 56	76 132	77.05 % 75.04 %	75 155	0.21 % 0.35 %	5,508 51,076	85.86 % 98.00 %		28 93	37.60 % 59.93 %	1
Low Medium		0.50 to < 0.75 0.75 to < 2.50			40	851 537	270	80.39 %	1,065	0.56 %	27,945	52.10 % 58.89 %		454 449	42.60 %	3
Medium Medium to High		2.50 to <10.00			42	440	98 118	79.11 % 78.50 %	614 532	1.49 % 4.80 %	11,941 13,808	72.26 %		601	73.13 % 112.95 %	19
High Default		10.00 to <100.00 100.00 (Default)			43 44	64 30	10	78.50 % 82.90 %	73 33	26.47 % 100.00 %	2,692 5,939	68.80 % 57.21 %		113 196	156.30 % 595.53 %	14
Sub-total		Too.oo (Derault)			45		3,294	02.30 /0	5,741		193,245	37.21 //		2,371	333.33 /6	49 5
Other retail Exceptionally low to Very low		0.00 to <0.15			46	9.742	3,188	49.26 %	11,685	0.07 %	367,834	22.07 %		471	4.03 %	2
Very low to Low		0.15 to < 0.25			47	6,944	561	91.53 %	7,458	0.18 %	173,682	65.16 %		2,034	27.28 %	9
Low Low		0.25 to <0.50 0.50 to <0.75			48 49	3,275 3,331	1,460 40	30.04 % 47.52 %	3,713 3,138	0.38 % 0.61 %	558,953 108,859	53.94 % 30.02 %		1,297 799	34.93 % 25.45 %	8
Medium Medium to High		0.75 to <2.50 2.50 to <10.00			50 51	6,544 1,545	271 10	37.67 % 41.01 %	6,561 1 484	1.44 % 6 13 %	421,025 192,380	45.34 % 38 40 %		3,624 911	55.23 % 61.35 %	44 34
High		10.00 to <100.00			52	474	330	50.33 %	635	28.52 %	247,542	79.71 %		1,154	181.72 %	126
Default Sub-total		100.00 (Default)			53 54	199 32,054	5,862	35.02 %	193 34,867	100.00 %	83,821 2,154,096	47.43 %		501 10,791	259.21 %	83 312 83
Total (all retail portfolios)					55	176,845	94,534		224,474		7,910,829			32,547		932 289
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	56 57	24,088	35,589	49.47 %	40,204	0.20 %	4,902	37.73 %	2.48	15,836	39.39 %	31
Investment grade Investment grade to Non-investment grade	I-6, I-7 I-7, S-1	0.25 to <0.50 0.50 to <0.75	Baa2 to Baa3 Baa3 to Ba1	BBB to BBB- BBB- to BB+	58 59	35,523 35,093	33,948 27,744	49.16 % 46.75 %	50,999 46,631	0.32 % 0.66 %	8,852 8,034	36.39 % 36.10 %	2.47 2.46	23,659 29,290	46.39 % 62.81 %	60 112
Non-investment grade Non-investment grade to Watchlist	S-1, S-2, S-3 S-3, S-4, P-1, P-2	0.75 to <2.50 2.50 to <10.00	Ba1 to Ba3 Ba3 to Caa1	BB+ to BB- BB- to B-	60 61	37,629 5.533	27,247 5.501	46.83 % 48.42 %	49,010 7.203	1.25 % 3.65 %	12,227 3,119	36.83 % 32.66 %	2.54 2.07	39,077 6.583	79.73 % 91.39 %	225 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 Sub-total	Default	100.00 (Default)	С	C to D	63 64	907 174,139	266 202,946	99.99 %	1,161 273.328	100.00 %	451 43,909	39.21 %	2.64	3,459 136,484	298.05 %	270 888 270
Sovereign	- L	Tarana a		T									1			200 210
Investment grade Investment grade	I-1, I-2, I-3, I-4, I-5 I-5, I-6	0.00 to <0.15 0.15 to <0.25	Aaa to Baa1 Baa1 to Baa2	AAA to BBB+ BBB+ to BBB	65 66	105,767 672	7,799 389	59.56 % 73.83 %	110,569 926	0.02 % 0.20 %	2,956 307	3.99 % 21.15 %	2.49 1.18	2,980 149	2.70 % 16.07 %	2
Investment grade	I-6, I-7 I-7 S-1	0.25 to <0.50 0.50 to <0.75	Baa2 to Baa3 Baa3 to Ba1	BBB to BBB- BBB- to BB+	66 67 68	218 1 520	367 30	53.86 % 32.85 %	335	0.34 % 0.63 %	126 83	21.81 %	1.78	88	26.39 %	-
Investment grade to Non-investment grade 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 %	1,514 117	1.09 %	93	39.28 %	1.80	93	79.92 %	1
Non-investment grade to Watchlist Watchlist	S-3, S-4, P-1, P-2 P-2 P-3	2.50 to <10.00 10.00 to <100.00	Ba3 to Caa1 Caa1 to Ca	BB- to B- B- to CC	70 71	41	4	42.71 % 0.00 %	39	4.33 % 0.00 %	4 <u>2</u> 1	31.03 % 0.00 %	1.58	39	99.26 % 0.00 %	1
Default	P-2, P-3 Default	100.00 to <100.00 100.00 (Default)	C	C to D	72		-	0.00 %	-	0.00 %		0.00 %			0.00 %	
Sub-total Bank				1	73	108,342	8,624		113,500		3,608			3,393		4 -
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 Investment grade	I-5, I-6 I-6, I-7	0.15 to < 0.25 0.25 to < 0.50	Baa1 to Baa2 Baa2 to Baa3	BBB+ to BBB BBB to BBB-	74 75 76 77	2,813 1,151	2,692 2,131	62.46 % 61.37 %	4,494 2,429	0.19 % 0.32 %	82 72	16.42 % 16.23 %	0.73 0.61	519 394	11.55 % 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 78	1,390	634	62.17 %	1,765	0.55 %	56 47	13.73 %	0.53	292	16.52 %	1
Non-investment grade Non-investment grade to Watchlist	S-1, S-2, S-3 S-3, S-4, P-1, P-2	0.75 to <2.50 2.50 to <10.00	Ba1 to Ba3 Ba3 to Caa1	BB+ to BB- BB- to B-	79	1,832 63	32 3	98.38 % 91.03 %	1,479 61	1.16 % 3.31 %	47 13	15.20 % 14.91 %	0.34 0.17	421 22	28.49 % 35.91 %	3
Watchlist Default	P-2, P-3 Default	10.00 to <100.00 100.00 (Default)	Caa1 to Ca	B- to CC C to D	80 81	-	-	0.00 %	-	0.00 % 0.00 %	-	0.00 % 0.00 %	-	-	0.00 % 0.00 %	-
Sub-total Sub-total	Delauit	TOO.OO (DEIBUIL)			82	19,475	9,410	0.00 %	25,933	0.00 %	459	0.00 %		3,481	U.UU %	8 -
Total (all wholesale portfolios) (1) Credit risk excludes Counterparty Credit Risk	Securitization Equity Inv	aetment in Eunde Sattlen	nent risk and amounts helou	the thresholds for deducti	83	301,956 ect to 250% risk weig	220,980		412,761		47,976			143,358		900 270

Sub-total \$2 19.475
Total (all wholesale portfolios) 82 19.475
(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.
(3) Calculated as EAD post-conversion factor for off-balance sheet exposure divided by total off-balance sheet exposure preconversion factor.
(4) Calculated as the Object Por oquarantor Pol, where applicable, weighted by EAD.
(5) Obligor count for Retail portfolios is at the account level. Obligor count for Wholesale portfolios is at the botrower level.
(6) Calculated as the obligor EO or quarantor where applicable, weighted by EAD.
(7) Calculated as the effective maturity in years weighted by EAD.
(8) PD bands in the table are as prescribed in revised Pilar 3 guidance and used for comparative purposes across banks.
(9) Includes stage 3 allowances and partial write-offs.

		BMO (A) Financial Group						
CI	R7 - IRB - EFFECT ON RWA OF CREDIT DERIVATIVES	Q4 2	2018					
US	SED AS CRM TECHNIQUES	Pre-credit						
		Derivatives RWA	Actual RWA					
(\$ r	nillions)	а	b					
	Portfolio							
1	Corporate - AIRB	43	26					
2	Sovereign - AIRB	-	-					
3	Bank - AIRB	-	-					
4	Total	43	26					

CF	R8 - RWA FLOW STATEMENTS OF CREDIT RISK AND	Q4 2018							
C	DUNTERPARTY CREDIT RISK EXPOSURES	Credit risk,	Counterparty						
		AIRB	Standardized	credit risk (6)					
(\$ n	nillions)	а	b	С					
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.

MARKET RISK RISK-WEIGHTED ASSETS (RWA) MOVEMENT BY KEY DRIVERS													
	LINE	2018	2018	2018	2018	2017	2017						
(\$ millions except as noted)	#	Q4	Q3	Q2	Q1	Q4	Q						
Market Risk RWA, beginning of quarter	1	11,097	10,415	9,816	8,448	8,314	7,957						
Movement in risk levels (1)	2	(980)	1,643	569	1,208	152	350						
Model updates (2)	3	399	44	-	-	-	-						
Methodology and policy (3)	4	(178)	(1,005)	30	160	(18)	7						
Acquisition and disposals	5	3,194	-	-	-	-	-						
Foreign exchange movement and others	6	-	-	-	-	-	-						
Market Risk RWA, end of quarter	7	13,532	11,097	10,415	9,816	8,448	8,314						

- (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.

EXPOSURE COVERED BY CREDIT RISK MITIGATION (1) (3)		Q4	2018		Q3 2018					Q2	2018	
		Stand	dardized		AIRB	Standardized			AIRB	Stand	dardized	AIRB	
(\$ millions except as noted)	LINE #		Of which exposure amount covered by guarantees or credit derivatives		Of which exposure amount covered by guarantees or credit derivatives (2)		Of which exposure amount covered by guarantees or credit derivatives		Of which exposure amount covered by guarantees or credit derivatives (2)		Of which exposure amount covered by guarantees or credit derivatives	EAD post CRM	Of which exposure amount covered by guarantees or credit derivatives
Corporate (incl specialized lending and SMEs treated as corporate)	1	21,002	178	273,328	9,592	20,134	166	259,499	8,487	20,110	121	252,287	24,584
Sovereign	2	178	-	113,500	330	162	-	108,424	270	155	-	102,464	526
Bank	3	164	-	25,933	660	185	-	24,468	717	233	-	25,100	1,612
Total Wholesale	4	21,344	178	412,761	10,582	20,481	166	392,391	9,474	20,498	121	379,851	26,722
Residential mortgages excluding home equity line of credits (HELOCs)	5	4,376	10	102,209	46,233	4,218	13	101,899	47,205	4,208	26	100,868	49,140
HELOCs	6	225	=	45,158	-	243	-	44,793	=	262	-	44,065	=
Other retail	7	2,724	422	34,867	1,952	2,881	435	34,808	2,038	3,039	439	34,285	2,139
Qualifying revolving retail	8	-	-	36,499	-	-	-	35,648	=	-	-	35,640	=
Retail SMEs	9	6,585	-	5,741	6	6,403	-	5,582	5	6,104	-	5,430	=
Total Retail	10	13,910	432	224,474	48,191	13,745	448	222,730	49,248	13,613	465	220,288	51,279
Other assets	11	8,800	-	1		8,867	-	-	1	8,252	-	-	-
Equity	12	1,894	-	-		1,836	-	-		1,749	-	-	-
Total Bank	13	45,948	610	637,235	58,773	44,929	614	615,121	58,722	44,112	586	600,139	78,001

CREDIT RISK EXPOSURE BY GEOGRAPHIC REGION (3)			Q4	2018			Q3 2	2018			Q2	2018	
(\$ millions except as noted)		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	128,517	158,498	7,315	294,330	123,331	148,236	8,066	279,633	124,633	140,562	7,202	272,397
Sovereign	15	31,795	71,150	10,733	113,678	33,621	64,301	10,664	108,586	30,300	62,330	9,989	102,619
Bank	16	1,613	9,106	15,378	26,097	4,049	6,220	14,384	24,653	3,393	6,620	15,320	25,333
Total Wholesale	17	161,925	238,754	33,426	434,105	161,001	218,757	33,114	412,872	158,326	209,512	32,511	400,349
Residential mortgages excluding home equity line of credits (HELOCs)	18	95,338	11,247	-	106,585	95,155	10,962	=	106,117	94,326	10,750	=	105,076
HELOCs	19	38,533	6,850	-	45,383	38,137	6,899	-	45,036	37,368	6,959	-	44,327
Other retail	20	29,098	8,035	458	37,591	28,732	8,477	480	37,689	28,543	8,277	504	37,324
Qualifying revolving retail	21	36,443	56	-	36,499	35,594	54	=	35,648	35,583	57	=	35,640
Retail SMEs	22	5,882	6,444	-	12,326	5,682	6,303	-	11,985	5,457	6,077	-	11,534
Total Retail	23	205,294	32,632	458	238,384	203,300	32,695	480	236,475	201,277	32,120	504	233,901
Other assets	24	4,537	4,001	262	8,800	5,218	3,596	53	8,867	5,026	3,146	80	8,252
Equity	25	68	1,582	244	1,894	58	1,549	229	1,836	68	1,460	221	1,749
Total Bank	26	371,824	276,969	34,390	683,183	369,577	256,597	33,876	660,050	364,697	246,238	33,316	644,251

CREDIT RISK EXPOSURE BY INDUSTRY (3)			Q4	2018			Q3	2018		Q2 2018	Q1 2018
				Other off-				Other off-			
			Commitments	balance			Commitments	balance			
(\$ millions except as noted)		Drawn	(undrawn) (4)	sheet items (5)	Total	Drawn	(undrawn) (4)	sheet items (5)	Total	Total	Total
Agriculture	27	11,589	1,781	28	13,398	11,331	1,844	25	13,200	12,675	12,272
Communications	28	718	966	298	1,982	632	1,044	171	1,847	1,848	1,845
Construction	29	3,693	2,660	1,180	7,533	3,795	2,577	1,218	7,590	8,056	7,178
Financial	30	102,461	21,741	5,016	129,218	96,771	20,619	4,579	121,969	119,748	122,661
Forest products	31	737	438	66	1,241	659	409	66	1,134	1,231	1,162
Government	32	44,552	2,118	667	47,337	42,546	2,136	659	45,341	42,914	38,302
Individual	33	190,672	47,586	126	238,384	189,287	47,058	129	236,474	233,901	228,059
Manufacturing	34	22,729	13,490	1,396	37,615	22,548	12,032	1,338	35,918	34,929	32,768
Mining	35	1,907	3,666	1,181	6,754	1,556	3,670	1,137	6,363	6,126	5,407
Oil and Gas	36	9,145	10,410	1,804	21,359	8,147	7,968	1,797	17,912	17,346	16,590
Other	37	15,850	2,493	534	18,877	19,609	328	406	20,343	17,443	16,474
Real estate	38	31,537	8,170	820	40,527	30,101	7,799	806	38,706	36,692	34,521
Retail trade	39	19,980	3,617	559	24,156	19,785	3,361	549	23,695	23,381	21,674
Service industries	40	39,108	12,666	2,389	54,163	37,437	12,118	2,436	51,991	50,914	48,650
Transportation	41	6,899	2,287	708	9,894	6,764	2,117	926	9,807	9,852	9,124
Utilities	42	4,543	4,051	2,479	11,073	3,737	3,754	2,409	9,900	9,995	9,697
Wholesale trade	43	14,705	4,531	436	19,672	13,118	4,326	416	17,860	17,200	16,521
Total Bank	44	520,825	142,671	19,687	683,183	507,823	133,160	19,067	660,050	644,251	622,905

⁽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) Effective Q3'18, only secured amount of guaranteed facility is disclosed instead of full amount as in prior periods.

⁽³⁾ Prior periods have been restated to conform with Revised Pillar 3 scope for credit risk: Credit risk excludes Securitization, Counterparty credit risk, Equity Investment in Funds, Settlement risk and amounts below the thresholds for deduction subject to 250% risk weight.

⁽⁴⁾ The EAD on the difference between the authorized and drawn amounts (e.g. the unused portion of a line of credit).

⁽⁵⁾ All other off-balance sheet arrangements, other than derivatives and undrawn commitments, such as Standby Letters of Credit and Documentary Credits.

									BMC	Financ	cial Group
CREDIT RISK EXPOSURE BY MAJOR ASSET CLASS (1)			Q4 2018				Q3 :	2018		Q2 2018	Q1 2018
				Other off-				Other off-			
	LINE		Commitments	balance			Commitments	balance			
(\$ millions except as noted)	#	Drawn	(undrawn) (2)	sheet items (3)	Total	Drawn	(undrawn) (2)	sheet items (3)	Total	Total	Total
Basel III Asset Classes											
Corporate (incl specialized lending and SMEs treated as corporate)	1	191,556	86,914	15,860	294,330	185,712	78,389	15,532	279,633	272,397	266,373
Sovereign	2	108,505	3,700	1,473	113,678	103,174	3,652	1,760	108,586	102,619	89,702
Bank	3	19,541	4,326	2,230	26,097	19,096	3,912	1,645	24,653	25,333	29,743
Total Wholesale	4	319,602	94,940	19,563	434,105	307,982	85,953	18,937	412,872	400,349	385,818
Residential mortgages excluding home equity line of credits (HELOCs)	5	106,392	119	74	106,585	105,935	105	77	106,117	105,076	104,704
HELOCs	6	31,290	14,093	-	45,383	31,108	13,928	=	45,036	44,327	43,398
Other retail	7	34,772	2,815	4	37,591	34,933	2,750	6	37,689	37,324	34,292
Qualifying revolving retail	8	8,361	28,138	-	36,499	7,756	27,892	-	35,648	35,640	34,465
Retail SMEs	9	9,859	2,421	46	12,326	9,554	2,384	47	11,985	11,534	11,200
Total Retail	10	190,674	47,586	124	238,384	189,286	47,059	130	236,475	233,901	228,059
Other assets	11	8,800	-	-	8,800	8,867	-	-	8,867	8,252	7,551
Equity	12	1,749	145	-	1,894	1,688	148	-	1,836	1,749	1,477
Total Bank	13	520,825	142,671	19,687	683,183	507,823	133,160	19,067	660,050	644,251	622,905

CREDIT RISK BY RESIDUAL CONTRACT MATURITY BREAK	DOWN	(1)									
		Q4 2018					Q3 2	2018		Q2 2018	Q1 2018
				Other off-				Other off-			
			Commitments	balance			Commitments	balance			
- · · · · · · · · · · · · · · · · · · ·											
(\$ millions except as noted)		Drawn	(undrawn) (2)	sheet items (3)	Total	Drawn	(undrawn) (2)	sheet items (3)	Total	Total	Total
Up to 1 year	14	Drawn 180,710	(undrawn) <i>(2)</i> 81,804	sheet items (3) 14,614	Total 277,128	Drawn 178,778	(undrawn) <i>(2)</i> 76,756	sheet items (3) 14,225	Total 269,759	Total 261,538	Total 260,101
	14 15										
Up to 1 year	14 15 16	180,710	81,804	14,614	277,128	178,778	76,756	14,225	269,759	261,538	260,101

PORTFOLIO BREAKDOWN BY BASEL APPROACHES (1)			Q4 20°	Q4 2018				018			Q2 2	018	
		Standa	Standardized		RB	Standa	ardized	AIF	RB	Standa	rdized	All	RB
			Commitments		Commitments		Commitments		Commitments		Commitments		Commitments
(\$ millions except as noted)		Drawn	(undrawn) (2)	Drawn	(undrawn) (2)	Drawn	(undrawn) (2)	Drawn	(undrawn) (2)	Drawn	(undrawn) (2)	Drawn	(undrawn) (2)
Corporate (incl specialized lending and SMEs treated as corporate)	18	17,417	3,157	174,139	83,757	16,779	2,938	168,933	75,451	16,824	2,857	163,245	74,446
Sovereign	19	163	13	108,342	3,687	151	10	103,023	3,642	145	9	96,976	3,684
Bank	20	66	40	19,475	4,286	109	31	18,987	3,881	165	21	19,456	3,965
Total Wholesale	21	17,646	3,210	301,956	91,730	17,039	2,979	290,943	82,974	17,134	2,887	279,677	82,095
Residential mortgages excluding home equity line of credits (HELOCs)	22	4,301	-	102,091	119	4,141	-	101,794	105	4,129	-	100,771	98
HELOCs	23	227	-	31,063	14,093	243	-	30,865	13,928	262	-	30,405	13,660
Other retail	24	2,718	-	32,054	2,815	2,875	-	32,058	2,750	3,034	-	31,595	2,690
Qualifying revolving retail	25	-	-	8,361	28,138	-	-	7,756	27,892	-	-	7,615	28,025
Retail SMEs	26	6,583	-	3,276	2,421	6,403	-	3,151	2,384	6,104	-	3,029	2,355
Total Retail	27	13,829	-	176,845	47,586	13,662	-	175,624	47,059	13,529	-	173,415	46,828
Other assets	28	8,800	-	-	-	8,867	-	-	-	8,252	-	-	
Equity	29	1,749	145	-	-	1,688	148	-	-	1,602	148	-	
Total Bank	30	42,024	3,355	478.801	139.316	41.256	3.127	466.567	130.033	40.517	3.035	453.092	128,923

⁽¹⁾ Prior periods have been restated to conform with Revised Pillar 3 scope for credit risk excludes Securitization, Counterparty credit risk, Equity Investment in Funds, Settlement risk and amounts below the thresholds for deduction subject to 250% risk weight.

(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.

						вмо 🕿	Financial Group					
C	CR1 - ANALYSIS OF COUNTERPARTY CREDIT	Q4 2018										
RI	SK (CCR) EXPOSURE BY APPROACH (1)	Replacement cost	Potential future exposure	Effective Expected Positive Exposure (EEPE)		EAD post-CRM	RWA					
(\$ n	nillions)	а	b	` c	d	е	f					
1	Current exposure method (CEM) (for derivatives)	9,112	17,855			26,370	4,746					
	Internal Model Method (for derivatives and SFTs)			-	-	-	-					
	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					

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

	CR2 - CREDIT VALUATION ADJUSTMENT (CVA)	Q4 2	018
CA	APITAL CHARGE	EAD post-CRM	RWA
(\$ m	nillions)	а	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⁾ RWA reflects CET1 scalar of 80% adjustment for CVA phase-in.

BMO Financial Group

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

OCK CIMIDARDIED AND ROADING OCCUPANT RESCENTER FOR MEIGHT (1)											
(\$ millions)						Q4 20	018				
						Risk W	eight				
										Total credit	
	LINE	0%	10%	20%	50%	75%	100%	150%	Others	exposure	
Regulatory portfolio	#	а	b	С	d	е	f	g	h	i	
Sovereigns	1	-	-	-	1	-	-	-	-	-	
Non-central government public sector entities (PSEs)	2	-	-	2	_	-	-	-	-	2	
Multilateral development banks (MDBs)	3	-	-	-	_	-	-	-	-	-	
Banks	4	-	-	296	-	-	-	-	-	296	
Securities firms	5	-	-	-	-	-	-	-	-	-	
Corporates	6	-	-	-	-	-	581	-	-	581	
Regulatory retail portfolios	7	-	-	-	-	-	-	-	-	-	
Secured by residential property	8	-	-	-	-	-	-	-	-	-	
Secured by commercial real estate	9	-	-	-	-	-	1	-	-	1	
Equity	10	-	-	-	-	-	-	-	-	-	
Defaulted exposures	11	-	-	-	-	-	-	-	-	-	
Higher-risk categories (2)	12	-	-	-	-	-	-	1	_	1	
Other assets	13	-	-	-	-	-	-	-	-	-	
Total	14	-	-	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 PO	ORTFOLIO AND PD SCA	ALE								вмо	△ Finan	cial Group
(\$ millions except as noted)									Q4 2018			
			Moody's Investors Service implied	Standard & Poor's	LINE	EAD post- CRM	Average PD	Number of obligors (2)	Average LGD (3)	Average maturity (years) (4)	RWA	RWA densit
Risk Profile	BMO Rating	PD scale (%)	equivalent	implied equivalent	#	а	b	С	d	е	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	8.769
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	61.869
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	68.719
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	110.999
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	87.709
Default	Default	100.00 (Default)	С	C to D	8	0	100.00%	1	45.00%	2.99	0	533.339
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	2.719
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	12.219
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	26.819
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	76.389
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	67.379
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	225.339
Watchlist	P-2, P-3	10.00 to <100.00	Caa1 to Ca	B- to CC	16	-	0.00%	-	0.00%	0.00	-	0.009
Default	Default	100.00 (Default)	С	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	12.829
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	20.449
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	13.869
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	36.209
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)	С	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.

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CCR5 - COMPOSITION OF COLLATERAL		Q4 2018								
FOR CCR EXPOSURE (1)			Collateral used in de	Collateral u	sed in SFTs					
		Fair value of co	llateral received	Fair value of po	osted collateral	Fair value of	Fair value of			
	LINE	Segregated	Unsegregated	Segregated	Unsegregated	collateral received	posted collateral			
(\$ millions)	#	a	b	С	d	е	f			
Cash – domestic currency	1	-	1,487	-	908	20,636	40,936			
Cash – other currencies	2	-	3,276	-	1,261	54,761	48,215			
Domestic sovereign debt	3	-	164	-	636	54,622	28,312			
Other sovereign debt	4	-	108	-	345	33,739	34,079			
Government agency debt	5	-	640	-	350	1,909	8,921			
Corporate bonds	6	-	33	-	-	7,735	16,459			
Equity securities	7	-	-	-	-	23,106	39,832			
Other collateral	8	-	-	-	-	1,074	-			
Total	9	-	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	Q4 20	018		
		Protection bought	Protection sold	
(\$ millions)		а	b	
Notionals				
Single-name credit default swaps	10	1,858	24	
Index credit default swaps	11	1,977	797	
Total return swaps	12	1,318	379	
Credit options	13	-	-	
Other credit derivatives	14	-	-	
Total notionals	15	5,153	1,200	
Fair values				
Positive fair value (asset)	16	33	15	
Negative fair value (liability)	17	53	1	

BMO (**) Financial Group

			-
CC	R8 - EXPOSURES TO CENTRAL COUNTERPARTIES	Q4 2	2018
		EAD (post-CRM)	RWA
(\$ mi	llions)	a	b
1	Exposures to QCCPs (total)		664
	Exposures for trades at QCCPs (excluding initial margin and default fund		
2	contributions); of which	11,327	230
3	(i) OTC derivatives	5,547	114
4	(ii) Exchange-traded derivatives	4,534	91
5	(iii) Securities financing transactions	1,246	25
6	(iv) Netting sets where cross-product netting has been approved	-	-
7	Segregated initial margin	-	
8	Non-segregated initial margin	2,832	57
9	Pre-funded default fund contributions	695	377
10	Unfunded default fund contributions	-	-
11	Exposures to non-QCCPs (total)		-
	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	-	-
	Segregated initial margin	-	
	Non-segregated initial margin	-	-
	Pre-funded default fund contributions	-	-
20	Unfunded default fund contributions	-	-

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DEBT ISSUED BY BANK SPONSORED	VEHICLES	FUR THIRD PA	RITASSEIS												
			Q4 2018			Q3 2018			Q2 2018			Q1 2018			
	LINE	Canadian	US												
	LINE														
(\$ millions except as noted)	#	Conduits (1)	Conduit (2)	Total											
Auto loans/leases	1	2,021	1,263	3,284	2,211	1,394	3,605	1,946	1,448	3,394	2,016	1,640	3,656		
Credit card receivables	2	200	-	200	150	-	150	150	-	150	150	-	150		
Residential mortgages (insured)	3	616	-	616	717	-	717	852	-	852	926	-	926		
Residential mortgages (uninsured)	4	962	-	962	1,060	-	1,060	966	-	966	920	-	920		
Commercial mortgages (uninsured)	5	-	16	16	-	16	16	-	15	15	-	15	15		
Commercial mortgages (insured)	6	72	-	72	59	-	59	62	-	62	54	-	54		
Equipment loans/leases	7	323	616	939	197	668	865	6	500	506	262	532	794		
Trade receivables	8	-	250	250	-	249	249	-	241	241	-	237	237		
Corporate loans	9	-	-	-	-	-	-	-	-	-	-	-	-		
Daily auto rental	10	170	304	474	332	424	756	155	410	565	120	76	196		
Floorplan finance receivables	11	332	351	683	314	325	639	214	323	537	294	320	614		
Collateralized debt obligations	12	-	-	-	-	-	-	-	-	-	-	-	-		
Other pool type	13	250	111	361	250	171	421	250	130	380	250	97	347		
Student loans	14	-	898	898	-	773	773	-	1,270	1,270	-	398	398		
Total	15	4,946	3,809	8,755	5,290	4,020	9,310	4,601	4,337	8,938	4,992	3,315	8,307		

⁽¹⁾ Canadian Conduit totals include amounts pertaining to a conduit that has been directly funded by the Bank (\$824.7 million as at Q4, 2018, \$782.8 million as at Q3, 2018, \$761.8 million as at Q1, 2018). External Credit Assessment Institutions used to rate the Asset Backed Commercial Paper of the market funded conduits in Canada are DBRS and Moody's.

⁽²⁾ US Conduit totals include amounts that have been directly funded by the Bank (\$24.1 million as at Q4, 2018, \$23.9 million as at Q2, 2018, and \$23.0 million as at Q1, 2018). External Credit Assessment Institutions used to rate the Asset Backed Commercial Paper of the market funded conduit in the US are S&P and Moody's.

		Q4 2018														
		Bar	nk acts as originat	tor	В	ank acts as spons	or	Ba	ink acts as invest	or						
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total						
\$ m	nillions)	а	b	С	е	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	1	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 October 31, 2018, \$1,106 million of securitization exposures did not qualify for risk transference. The table excludes securitization-related assets of \$5,977 million 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.

								ВМ	o 🛎 Finan	cial Group					
SE	C2 - SECURITIZATION EXPOSURES IN THE	Q4 2018													
TR	ADING BOOK	Ban	k acts as origir	ator	Bar	ık acts as spor	sor	Ban	k acts as inves	tor					
		Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total	Traditional	Synthetic	Sub-total					
(\$ m	illions)	а	b	С	е	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 BAN	KING BOOK	AND ASSO	CIATED CAP	ITAL REQUIR	REMENTS - I	BANK ACTIN	NG AS ORIG	INATOR OR	AS SPONSO	DR (1)				вмо 🕿	°Financia	al Group
		Evnosura	values by RW	hande (2)		Q4 2018 Exposure values by regulatory approach (2) RWA by regulatory approach									Capital char	no after can	
		Exposure	>50% to	>100% to	IRB RBA (including			guiatory appr	Jacii (2)	IRB RBA (including	WA by regulator	ry approach (3)	IRB RBA (including	Capital Cilai	ge alter cap	
	≤20%	>20% to 50%	100%	<1250%	1250% RW	IAA)	IRB SFA	SA/SSFA	1250%	IAA)	IRB SFA	SA/SSFA	1250%	IAA)	IRB SFA	SA/SSFA	1250%
(\$ millions)	а	b	С	d	е	f	g	h	i	j	k	ı	m	n	0	р	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

SE	4 - SECURITIZATION EXPOSURES	IN THE BA	NKING BOOK	AND ASSO	CIATED CAP	ITAL REQUI	REMENTS -	BANK ACTIN	NG AS INVES									
		Q4 2018																
			Exposure	values by RW	bands (2)		Exposu	re values by re	gulatory appro	ach (2)	R\	NA by regulate	ory approach (3)		Capital char	ge after cap	
							IRB RBA				IRB RBA				IRB RBA			
				>50% to	>100% to		(including				(including				(including			
		≤20%	>20% to 50%	100%	<1250%	1250% RW	IAA)	IRB SFA	SA/SSFA	1250%	IAA)	IRB SFA	SA/SSFA	1250%	IAA)	IRB SFA	SA/SSFA	1250%
(\$ mi	lions)	a	b	С	d	е	f	g	h	i	j	k	_	m	n	0	р	q
1	Total exposures	8	3 -	-	-	-	8	-	-	-	1	-	-	-	1	-	-	-
2	raditional securitization	w	-	-		-	8	-	-	-	1	-	-	-	1	1	-	-
3	Of which securitization	8	3 -	-	-	-	8	-	-	-	1	-	-	-	1	-	-	
4	Of which retail underlying			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Of which wholesale	8	3 -	-	-	-	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) Exposure amounts are net of collateral.

(3) RWA before application of the KIRB cap and scaling factor.

											вмо	Financ	ial Group	
ESTIMATED AND ACTUAL LOSS PARAMETERS UNDER AIRB APPROACH				Q4 20	18			Q3 2018						
(\$ millions except as noted)		PD (1)(2)		LGD (3	(4)	EAD	(5) (6)	PD (1)	(2)	LGD (3	(4)	EAD (5) (6)	
	LINE	Average		Average				Average		Average				
Risk Profile	#	estimated	Actual	estimated	Actual	Estimated	Actual	estimated	Actual	estimated	Actual	Estimated	Actual	
Wholesale														
Corporate including specialized lending	1	0.83%	0.44%	35.31%	19.59%	268	228	0.86%	0.57%	34.36%	18.63%	405	314	
Corporate small and medium enterprises (SMEs)	2	1.26%	0.53%	38.43%	22.58%	68	65	1.30%	0.54%	38.42%	26.04%	63	63	
Sovereign	3	0.11%	0.00%	14.93%	0.00%	-	-	0.10%	0.00%	15.22%	0.00%	-	-	
Bank	4	0.31%	0.00%	17.30%	0.00%	-	-	0.33%	0.00%	17.27%	0.00%	-	-	
Retail														
Residential mortgages excluding home equity line of credits (HELOCs) - Uninsured only (7) (8)	5	0.97%	0.64%	25.67%	14.34%	250	250	0.97%	0.65%	23.97%	13.71%	247	247	
HELOCs (8)	6	0.57%	0.47%	34.60%	20.04%	190	184	0.58%	0.51%	35.41%	19.68%	193	187	
Qualifying revolving retail (QRR)	7	1.30%	1.15%	84.12%	79.00%	484	468	1.33%	1.20%	84.18%	77.40%	493	475	
Other retail (excl. SMEs)	8	4.97%	4.53%	84.04%	77.44%	328	328	5.10%	4.57%	84.04%	77.74%	319	318	
Retail SMEs	9	1.17%	0.83%	95.86%	78.51%	47	42	1.19%	0.81%	95.50%	78.92%	44	40	

⁽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.

CR9 - IRB - BACKTESTING OF P	ROBABILITY	OF DEFAULT (PD)	PER PORTFOLIO (1)								BMO 🕮 Fi	nancial Group
(\$ millions except as noted)						Weighted		Number of o	Q4 2018 bliggrs (3)		Of which: new	Average historical
			Moody's Investors			average PD	Arithmetic average				defaulted obligors in	annual default rate
Risk Profile	BMO Rating	PD Range (%)	Service implied equivalent	Standard & Poor's implied equivalent	LINE #	(2) a	PD by obligors b	End of previous year c	End of the year	the year d	the year (4)	(5) f
Residential mortgages and HELOCs								,		1		
Exceptionally low Very low		≤ 0.05 > 0.05 to 0.20			1 2	0.04% 0.11%	0.04% 0.11%	271,241 375,704	277,877 368,780	120 365	4 3	0.03% 0.09%
Low		> 0.05 to 0.20 > 0.20 to 0.75			3	0.60%	0.58%	75,439	75,918	256	8	0.47%
Medium		> 0.75 to 7.00			4	3.31%	2.77%	71,973	72,266	1,468	13	2.25%
High		> 7.00 to 99.99			5	30.22%	26.88%	9,037	6,210	1,950	11	19.72%
Default Sub-total		100.00 (Default)			7	100.00%	100.00%	803,394	801,051	4,159	39	100.00%
Other retail								000,001	001,001	1,100	00	
Exceptionally low		≤ 0.05			8	0.04%	0.04%	32,629	32,525	17	.1	0.03%
Very low Low		> 0.05 to 0.20 > 0.20 to 0.75			9 10	0.12% 0.40%	0.12% 0.40%	517,997 678,502	498,906 677,897	791 2,871	103 537	0.10% 0.31%
Medium		> 0.75 to 7.00			11	2.01%	2.00%	534,086	533,355	10,629	620	1.53%
High		> 7.00 to 99.99			12	20.96%	27.62%	325,054	327,592	81,676	94	24.29%
Default Sub-total		100.00 (Default)			13	100.00%	100.00%	2,088,268	2,070,275	95,984	1,355	100.00%
Sub-total Qualifying revolving retail				+	14			2,000,200	2,070,275	95,964	1,335	
Exceptionally low		≤ 0.05			15	0.03%	0.03%		2,114,174	450	-	0.02%
Very low		> 0.05 to 0.20			16	0.11%	0.11%	975,401	1,045,849	928	3	0.09%
Low Medium		> 0.20 to 0.75 > 0.75 to 7.00			17 18	0.37% 2.68%	0.39% 2.82%	775,731 612,593	776,408 663,324	3,253 16,102	364 888	0.29% 2.38%
High		> 7.00 to 99.99			19	23.72%	25.40%	147,782	138,023	33,540	409	22.48%
Default		100.00 (Default)			20	100.00%	100.00%	-		-	-	100.00%
Sub-total					21			4,568,464	4,737,778	54,273	1,664	
Retail small-and-medium-sized entitie Exceptionally low		≤ 0.05			22	0.03%	0.02%	39,687	40,258	8	-	0.01%
Very low		> 0.05 to 0.20			23	0.10%	0.10%	37,157	34,078	26	-	0.05%
Low		> 0.20 to 0.75			24	0.52%	0.39%	87,835	84,529	159	1	0.20%
Medium High		> 0.75 to 7.00 > 7.00 to 99.99			25 26	3.04% 18.95%	2.93% 20.46%	26,097 5,602	23,164 5,277	612 825	1 5	1.95% 16.20%
Default		100.00 (Default)			27	100.00%	100.00%		5,211	-	-	100.00%
Sub-total					28			196,378	187,306	1,630	7	
Total (all retail portfolios)					29			7,656,504	7,796,410	156,046	3,065	
Corporate Investment grade	I-1	≤ 0.02	-	-	30	0.00%	0.00%	-	-	-	-	0.00%
Investment grade	I-2	>0.02 to ≤ 0.03	Aaa/Aa1	AAA/AA+	31	0.03%	0.03%	100	79		-	0.00%
	1-3	>0.03 to ≤ 0.07	Aa2/Aa3	AA/AA-	32	0.05%	0.06%	671	566	-	-	0.07%
	I-4 I-5	>0.07 to ≤ 0.11 >0.11 to ≤ 0.19	A1/A2/A3 Baa1	A+/A/A- BBB+	33 34	0.07% 0.12%	0.09% 0.13%	1,674 3,044	1,600 3,257	1	-	0.04% 0.07%
	I-6	>0.19 to ≤ 0.32	Baa2	BBB	35	0.20%	0.23%	4,763	4,910	2	-	0.16%
	I-7	>0.32 to ≤ 0.54	Baa3	BBB-	36	0.32%	0.33%	8,176	8,833	5	-	0.22%
	S-1 S-2	>0.54 to ≤ 0.91 >0.91 to ≤ 1.54	Ba1 Ba2	BB+ BB	37 38	0.66% 1.02%	0.67% 1.10%	8,004 8,100	8,027 8,313	17 24	1	0.63% 0.97%
	S-3	>1.54 to ≤ 2.74	Ba3	BB-	39	1.83%	1.79%	3,984	3,925	31	2	1.68%
Non-investment grade	S-4	>2.74 to ≤ 5.16	B1	B+	40	2.74%	2.74%	3,067	2,686	22	-	2.28%
	P-1 P-2	>5.16 to ≤ 9.70	B2	В	41 42	6.05%	7.30% 14.96%	502 772	437 673	20 76	1	6.25% 13.43%
	P-2 P-3	>9.70 to ≤ 18.23 >18.23 to < 100.00	B3 Caa/Ca	CCC/CC	42	13.76% 20.18%	14.96% 21.62%	159	152	17	-	17.57%
Default	Default	100.00 (Default)	C	C/D	44	100.00%	100.00%	-		-	-	0.00%
Sub-total					45			43,016	43,458	215	5	
Sovereign Investment grade	I-1	≤ 0.02	Aaa	AAA	46	0.01%	0.01%	34	21		_	0.00%
	I-2	>0.02 to ≤ 0.03	Aa1/Aa2/Aa3	AA+/AA/AA-	47	0.03%	0.03%		512	-	-	0.00%
Investment grade	I-3	>0.03 to ≤ 0.07	A1/A2	A+/A	48	0.04%	0.05%	721	906		-	0.00%
	I-4 I-5	>0.07 to ≤ 0.11 >0.11 to ≤ 0.19	A3 Baa1	A- BBB+	49 50	0.08% 0.12%	0.08% 0.13%	834 445	1,020 496	-	-	0.00% 0.00%
	I-6	>0.11 to ≤ 0.19 >0.19 to ≤ 0.32	Baa2	BBB+	51	0.12%	0.13%	290	307			0.00%
Investment grade	I-7	>0.32 to ≤ 0.54	Baa3	BBB-	52	0.34%	0.34%	138	126	-	-	0.00%
	S-1	>0.54 to ≤ 0.91	Ba1	BB+	53 54	0.67%	0.67%	83 76	83	-	-	0.00%
	S-2 S-3	>0.91 to ≤ 1.54 >1.54 to ≤ 2.74	Ba2 Ba3	BB BB-	5 4 55	1.08% 1.79%	1.10% 1.78%	50	68 26			0.00% 0.00%
Non-investment grade	S-4	>2.74 to ≤ 5.16	B1	B+	56	3.25%	2.93%	32	33		-	0.00%
	P-1	>5.16 to ≤ 9.70	B2	В	57	0.00%	0.00%	-	9	-	-	0.00%
	P-2 P-3	>9.70 to ≤ 18.23 >18.23 to < 100.00	B3 Caa/Ca	CCC/CC	58 59	15.15% 0.00%	15.15% 0.00%	2	1		-	0.00% 0.00%
	Default	100.00 (Default)	C	C/D	60	100.00%	100.00%	-	-	-	-	0.00%
Sub-total					61			3,181	3,608			
Bank Investment grade	I-1	≤ 0.02			62	0.00%	0.00%	1				0.00%
	I-1 I-2	≥ 0.02 >0.02 to ≤ 0.03	- Aaa/Aa1/Aa2/Aa3	- AAA/AA+/AA/AA-	63	0.03%	0.00%	7	15		-	0.00%
Investment grade	I-3	>0.03 to ≤ 0.07	A1/A2	A+/A	64	0.06%	0.06%	94	46	-	-	0.07%
	1-4	>0.07 to ≤ 0.11	A3	A-	65	0.07%	0.08%		66	-	-	0.00%
	I-5 I-6	>0.11 to ≤ 0.19 >0.19 to ≤ 0.32	Baa1 Baa2	BBB+ BBB	66 67	0.11% 0.19%	0.11% 0.19%		62 82		-	0.08% 0.08%
Investment grade	I-7	>0.32 to ≤ 0.54	Baa3	BBB-	68	0.32%	0.32%	70	72	-		0.10%
Non-investment grade	S-1	>0.54 to ≤ 0.91	Ba1	BB+	69	0.55%	0.58%	77	56	-	-	0.12%
	S-2	>0.91 to ≤ 1.54 >1.54 to ≤ 2.74	Ba2	BB	70	0.91%	0.93% 1.65%		23		-	0.48%
Non-investment grade Non-investment grade	S-3 S-4	>1.54 to ≤ 2.74 >2.74 to ≤ 5.16	Ba3 B1	BB- B+	71 72	1.59% 2.74%	1.65% 2.74%		24 9			0.22% 0.44%
Watchlist	P-1	>5.16 to ≤ 9.70	B2	В	73	5.34%	5.34%	1	3			0.00%
	P-2	>9.70 to ≤ 18.23	B3	B-	74	0.00%	0.00%	-	1	-	-	4.17%
	P-3 Default	>18.23 to < 100.00 100.00 (Default)	Caa/Ca	CCC/CC C/D	75 76	0.00% 100.00%	0.00% 100.00%	-	-	-	-	0.00% 0.00%
Sub-total	Delault	100.00 (Default)		OID	76	100.00%	100.00%	458	459	-	-	0.00%
Total (all wholesale portfolios)					78			46,655	47,525		5	
(1) The results shown in the table cover												

[|] Total (all wholesale portfolios) | 78 |
(1) The results shown in the table cover all models within these asset classes.
(2) Calculated as the obligor PD weighted by EAD.
(3) Obligor count for Retail portfolios is at the account level, excluding defaulted accounts. Obligor count for Wholesale portfolios is at the borrower level, excluding defaulted obligors.
(4) Calculated as the number of obligors having defaulted during the last 12-month period that were not funded at the end of the previous year.
(5) Wholesale portfolios use 12 year average of the annual default rate. Retail portfolios use 6-15 year average of the annual default rate.

																вмо 🕿 в	inancial Group
			As at Octo	ober 31, 2018			As at Ju	y 31, 2018			As at Ap	ril 30, 2018			As at Janu	uary 31, 2018	
DERIVATIVE INSTRUMENTS					AIRB				AIRB				AIRB				AIRB
Basel	LINE		Replacement	Credit risk	Risk-weighted	Notional	Replacement	Credit risk	Risk-weighted	Notional	Replacement	Credit risk	Risk-weighted	Notional	Replacement	Credit risk	Risk-weighted
(\$ millions)	#	Amount	Cost	Equivalent	Assets (1)	Amount	Cost	Equivalent	Assets (1)	Amount	Cost	Equivalent	Assets (1)	Amount	Cost	Equivalent	Assets (1)
Interest Rate Contracts																	
Over-the-counter																	
Swaps	1	3.831.997	8.514	10,699		3.555.230	8.236	10,970		3.368.967	7.966	11,224		3.211.962	8.155	11,037	
Forward rate agreements	2	411,573	36	34		297,845	24	24		416,430	28	27		341,662	22	21	
Purchased options	3	35,023	409	393		28,684	434	331		27,640	455	330		26,573	432	326	
Written options	4	48,721	-	-		39,650	-	-		36,913	=	-		37,225	-	-	
·	5	4,327,314	8,959	11,126	704	3,921,409	8,694	11,325	669		8,449	11,581	1,267	3,617,422	8,609	11,384	334
Exchange traded																	
Futures	6	192,482	-	-		142,641	-	-		120,183	-	-		106,387	-	-	
Purchased options	7	26,629	-	-		15,405	-	-		21,099	-	-		16,641	-	-	
Written options	8	16,511				17,355	-	-		15,378	-	-		12,145	-	-	
	9	235,622	-			175,401	-	-		156,660	-	-		135,173	-	-	
Total Interest Rate Contracts	10	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	3,752,595	8,609	11,384	334
Foreign Exchange Contracts																	
Over-the-counter	11	92,916	3,270	7 022		92,441	3,698	8,355		88,607	4,420	9,028		84,535	4,652	9,022	
Cross-currency swaps Cross-currency interest rate swaps	12	455,232	5.035	7,832 14.909		439,846	5,049	14.434		417,905	5.918	15.073		423.868	4,652 9.512	18,531	
Forward foreign exchange contracts	13	472,323	4,453	8,373		450,962	3,661	6,818		485,881	3,831	7,978		430,289	5,148	8,233	
Purchased options	14	21,468	225	424		25,626	233	476		26,952	213	437		29,822	305	525	
Written options	15	24,018	-	727		28,138	-			31,674		-		35,928	-	-	
Whiteh options	16	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	1,004,442	19,617	36,311	2,780
Exchange traded									·								
Futures	17	739	-	-		963	-	-		1,080	-	-		3,190	-	-	
Purchased options	18	2,625	=	-		2,493	-	-		4,182	-	-		5,777	=	-	
Written options	19	1,420	-	-		1,089	-	-		1,744	-	-		1,472	-	-	
	20	4,784				4,545	-	-		7,006	-	-		10,439	-	-	
Total Foreign Exchange Contracts	21	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	1,014,881	19,617	36,311	2,780
Commodity Contracts																	
Over-the-counter	00	04.000	4.550	4.450		00.040	4.000	4.004		00.404	4 704	4.400		00.044	4 450	0.047	
Swaps Purchased options	22 23	24,366 6,182	1,559 335	4,450 1,108		22,340 6,143	1,630 434	4,304 1,185		20,424 6,551	1,701 496	4,106 1,279		20,341 6,508	1,459 374	3,847 1,113	
Written options	23	4,233	333	1,100		4,446	434	1,100		4,655	490	1,279		4,647	374	1,113	
Written options	25	34,781	1,894	5,558	1,188	32,929	2,064	5,489	1,136	31,630	2,197	5,385	1,127	31,496	1,833	4,960	1,139
Exchange traded		3.,.01	1,304	0,300	.,100		2,504	3,700	.,100	3.,500	2,707	3,300	.,127	0.,700	.,500	.,500	.,100
Futures	26	33,104	=	-		31,279	-	=		29,068	=	-		28,518	=	-	
Purchased options	27	3,303	-	-		3,753	-	-		4,284	-	-		4,471	-	-	
Written options	28 29	4,909 41,316	=	-		5,143 40,175	=	-		5,872 39,224	-	-		6,149 39,138	=	-	
						•											
Total Commodity Contracts	30	76,097	1,894	5,558	1,188	73,104	2,064	5,489	1,136	70,854	2,197	5,385	1,127	70,634	1,833	4,960	1,139
Equity Contracts Over-the-counter	31	53,107	1,585	4,332		50,793	840	3,431		61,835	1,040	4,263		64,245	1,339	4,954	
Exchange traded	32	33,687	1,505	-,552		31,580	-	5,451		28,793	1,540	-,203		20,525	1,559	-,554	
Total Equity Contracts	33	86,794	1,585	4,332	431	82,373	840	3,431	442	90,628	1.040	4,263	545	84,770	1,339	4,954	525
Credit Default Swaps	- 33	00,794	1,365	7,332	431	02,373	040	3,431	442	30,026	1,040	7,203	545	04,770	1,339	4,834	323
Over-the-counter																	
Purchased	34	3,047	1	55		2,288	1	55		2,425	1	55		2,426	-	52	
Written	35	443	9			142	4			123	4			116	2		
Total Credit Default Swaps	36	3,490	10	55	83	2,430	5	55	63	2,548	5	55	38	2,542	2	52	35
Sub-total	37	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	4,925,422	31,400	57,661	4,813
Impact of master netting agreements	38	n.a.	(15,575)	(29,170)		n.a.	(15,454)	(28,614)		n.a.	(17,130)	(31,371)		n.a.	(21,066)	(34,786)	
Total	39	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	4,925,422	10,334	22,875	4,813
(1) Disk weighted assets are reported after	Ale a Lance a at																

⁽¹⁾ Risk-weighted assets are reported after the impact of master netting agreements and application of prescaling factor where applicable.

BASEL GLOSSARY

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.

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.