

SUPPLEMENTARY REGULATORY CAPITAL DISCLOSURE



October 31, 2017

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Effective November 1, 2012, Canadian banks are subject to the revised capital adequacy requirements as published by the Basel Committee on Banking Supervision (BCBS) and commonly referred to as Basel III. Basel III builds on the "International Convergence of Capital Measurement and Capital Standards: A Revised Framework" (Basel II). Refer to page 2 "Basel III Implementation" for further details.

The Basel III Framework is comprised of three Pillars:

- Pillar 1 – the actual methodologies that must be applied to calculate the minimum capital requirements.
- Pillar 2 – the requirement that banks have internal processes to assess their capital adequacy in relation to their strategies, risk appetite and actual risk profile. Regulators are expected to review these internal capital adequacy assessments.
- Pillar 3 – reflects the market disclosures required by banks to assist users of the information to better understand the risk profile.

This Appendix reflects the Pillar 3 market disclosures based on information gathered as part of the Pillar 1 process, and should assist users in understanding the changes to the risk-weighted assets and capital requirements.

Basel III classifies risk into three broad categories: credit risk, market risk and operational risk. Under Pillar 1 of the Basel III Framework, minimum capital for these three risks is calculated using one of the following approaches:

- Credit risk capital – Internal Ratings Based Approach (Advanced or Foundation) or Standardized Approach.
- Operational risk capital – Advanced Measurement Approach (AMA), Standardized Approach or Basic Indicator Approach.
- Market risk capital - Internal models or Standardized Approach.

Credit Risk

The credit risk component consists of on- and off- balance sheet claims. The Basel III rules are not applied to traditional balance sheet categories but to categories of on- and off- balance sheet exposures which represent general classes of assets/exposures (Corporate, Sovereign, Bank, Retail and Equity) based on their different underlying risk characteristics.

Generally, while calculating capital requirements, exposure types such as Corporate, Sovereign, Bank, Retail and Equity are analyzed by the following credit risk exposure sub-types: Drawn, Undrawn, Repo-style Transactions, Over-the-counter (OTC) Derivatives, Exchange Traded Derivatives and Other Off-balance Sheet claims.

The Bank uses the Advanced Internal Ratings Based (AIRB) approach for credit risk in its material Canadian, US and European portfolios and for a significant portion of international corporate and commercial portfolios. The Bank uses internal estimates, based on historical experience, for probability of default (PD), loss given default (LGD) and exposure at default (EAD).

- Under the AIRB approach, credit risk risk-weighted assets (RWA) are calculated by multiplying the capital requirement (K) by EAD times 12.5, where K is a function of the PD, LGD, maturity and prescribed correlation factors. This results in the capital calculations being more sensitive to underlying risks.
- Risk weights for exposures which fall under the securitization framework are computed under the Internal Assessments Approach (IAA) or the Ratings-Based Approach (RBA). RBA risk weights depend on the external rating grades given by two of the external credit assessment institutions (ECAI): S&P, Moody's and DBRS.
- A multiplier of 1.25 is applied to the correlation parameter of all exposures to all unregulated Financial Institutions, and regulated Financial Institutions with assets of at least US\$100 billion.
- Exchange-traded derivatives which previously were excluded from the capital calculation under Basel II are risk-weighted under Basel III.
- An overall scaling factor of 6% is added to the credit risk RWA for all AIRB portfolios. For the remaining portfolios, the Standardized Approach is used to compute credit risk.
- The Standardized Approach applies regulator prescribed risk weight factors to credit exposures based on the external credit assessments (public ratings), where available, and also considers other additional factors (e.g. provision levels for defaulted exposures, loan-to-value for retail, eligible collateral, etc.).

Operational Risk

OSFI has approved Scotiabank's application to use the Advanced Measurement Approach (AMA) for Operational Risk, subject to a capital floor based on the Standardized Approach, in the first quarter of 2017. The Bank also utilizes the Standardized Approach for operational risk for units not covered under AMA. AMA utilizes risk drivers for capital movements (such as internal loss experience, business environment and internal control factors, external loss experience, and scenarios); while the Standardized Approach is based on a fixed percentage ranging from 12% to 18% of the average of the previous three years' gross income.

Market Risk

The Bank uses both internal models and standardized approaches to calculate market risk capital. Commencing Q1 2012, the Bank implemented additional market risk measures in accordance with Basel's Revisions of the Basel II market risk framework (July 2009). Additional measures include stressed Value-at-Risk, incremental risk charge and comprehensive risk measure.

IFRS

Effective Q1 2012, all amounts reflect the adoption of IFRS. Effective Q1 2014, all amounts reflect the adoption of new accounting standards, IFRS10 (Consolidated Financial Statements) and IAS19R (Employee Benefits).

This "Supplementary Regulatory Capital Disclosure" has been updated to reflect OSFI's Advisory, "Required Public Disclosure Requirements related to Basel III Pillar 3" (issued July 2, 2013), effective Q3 2013 for all D-SIBs. The main features template that sets out a summary of information on the terms and conditions of the main features of all capital instruments is posted on the Bank's website as follows: <http://www.scotiabank.com/ca/en/0,,3066,00.htm>

BASEL III IMPLEMENTATION



Canadian banks are subject to the revised capital adequacy requirements as published by the Basel Committee on Banking Supervision (BCBS) - commonly referred to as Basel III - effective November 1, 2012. Basel III builds on the "International Convergence of Capital Measurement and Capital Standards: A Revised Framework" (Basel II). The Office of the Superintendent of Financial Institutions (OSFI) has issued guidelines, reporting requirements and disclosure guidance which are consistent with the Basel III reforms (except for implementation dates described below).

As compared to previous standards, Basel III places a greater emphasis on common equity by introducing a new category of capital, Common Equity Tier 1 (CET1), which consists primarily of common shareholders equity net of regulatory adjustments. These regulatory adjustments include goodwill, intangible assets, deferred tax assets, pension assets and investments in financial institutions over certain thresholds. Overall, the Basel III rules increase the level of regulatory deductions relative to Basel II. Basel III also increases the level of risk-weighted assets for significant investments and deferred tax amounts due to temporary timing differences under defined thresholds, exposures to large or unregulated financial institutions meeting specific criteria, exposures to centralized counterparties and exposures that give rise to wrong way risk.

To enable banks to meet the new standards, Basel III contains transitional arrangements commencing January 1, 2013, through January 1, 2019. Transitional requirements result in a phase-in of new deductions to common equity over 5 years. Under the transitional rules, all CET1 deductions are multiplied by a factor during the transitional period, beginning with 0% in 2013, 20% in 2014, 40% in 2015, 60% in 2016, 80% in 2017 and 100% in 2018. The portion of the CET1 regulatory adjustments not deducted during the transitional period will continue to be subject to Basel II treatment. In addition, non-qualifying capital instruments will be phased-out over 10 years and the capital conservation buffer will be phased in over 4 years. As of January 2019, the banks will be required to meet new minimum requirements related to risk-weighted assets of: Common Equity Tier 1 ratio of 4.5% plus a capital conservation buffer of 2.5%, collectively 7%. Including the capital conservation buffer, the minimum Tier 1 ratio will be 8.5%, and the Total capital ratio will be 10.5%.

OSFI required Canadian deposit-taking institutions to fully implement the 2019 Basel III reforms in 2013, without the transitional phase-in provisions for capital deductions, and achieve a minimum 7% common equity target, by the first quarter of 2013 along with a minimum Tier 1 ratio of 7% and Total capital ratio of 10%. Since the first quarter of 2014, the minimum Tier 1 ratio rose to 8.5% and the Total capital ratio rose to 10.5%.

The BCBS issued the rules on the assessment methodology for global systemically important banks (G-SIBs) and their additional loss absorbency requirements. In their view, additional policy measures for G-SIBs are required due to negative externalities (i.e., adverse side effects) created by systemically important banks which are not fully addressed by current regulatory policies. The assessment methodology for G-SIBs is based on an indicator-based approach and comprises five broad categories: size, interconnectedness, lack of readily available substitutes, global (cross-jurisdictional) activity and complexity. Additional loss absorbency requirements may range from 1% to 3.5% Common Equity Tier 1 depending upon a bank's systemic importance and will be introduced in parallel with the Basel III capital conservation and countercyclical buffers from 2016 through to 2019. Scotiabank is not designated as a G-SIB.

Since similar externalities can apply at a domestic level, the BCBS extended the G-SIBs framework to domestic systemically important banks (D-SIBs) focusing on the impact that a distress or failure would have on a domestic economy. Given that the D-SIB framework complements the G-SIB framework, the Committee considers that it would be appropriate if banks identified as D-SIBs by their national authorities are required by those authorities to comply with the principles in line with phase-in arrangements for the G-SIB framework, i.e., January 2016. In a March 2013 advisory letter, OSFI designated the 6 largest banks in Canada as domestic systemically important banks (D-SIBs), increasing their minimum capital ratio requirements by 1% for the identified D-SIBs. This 1% surcharge is applicable to all minimum capital ratio requirements for CET1, Tier 1 and Total Capital, by no later than January 1, 2016, in line with the requirements for global systemically important banks.

As of January 2016, the Scotiabank and other Canadian D-SIB banks are also required to meet new D-SIB minimum requirements; a minimum Common Equity Tier 1 ratio of 8.0%, Tier 1 ratio of 9.5% and a Total capital ratio of 11.5%.

In December 2013, OSFI announced its decision to implement the phase-in (over 5 years) of the regulatory capital for Credit Valuation Adjustment (CVA) on Bilateral OTC Derivatives effective Q1 2014. In accordance with OSFI's requirements, this quarter a scalar for CVA risk-weighted assets (RWA) of 0.72, 0.77 and 0.81, respectively (0.64, 0.71 and 0.77, respectively in 2015 and 2016), is being applied to compute the CET1 capital ratio, Tier 1 capital ratio and Total capital ratio, respectively.

OSFI required Canadian deposit-taking institutions to implement the BCBS' countercyclical buffer requirements, starting Q1, 2017. The countercyclical buffer is only applicable to private sector credit exposures in jurisdictions with published buffer requirements. At present only three jurisdictions apply a countercyclical buffer and the Bank's exposures within these three jurisdictions are not material.

Risk-weighted assets are computed on an all-in Basel III basis unless otherwise indicated. All-in is defined as capital calculated to include all of the regulatory adjustments that will be required by 2019 but retaining the phase-out rules for non-qualifying capital instruments.

As at January 31, 2013, all of the Bank's preferred shares, capital instruments and subordinated debentures did not meet these additional criteria and are subject to phase-out commencing January 2013. The Bank reserves the right to redeem, call or repurchase any capital instruments within the terms of each offering at any time in the future.

Commencing in 2015 and continuing in 2016, the Bank issued subordinated debentures and preferred shares which contain non-viability contingent capital (NVCC) provisions necessary for the preferred shares and debentures to qualify as Tier 1 or Tier 2 regulatory capital. Under the NVCC provisions, the preferred shares and debentures are convertible into a variable number of common shares upon: (i) the public announcement by OSFI that the Bank has ceased, or is about to cease, to be viable; or (ii) by a federal or provincial government of Canada that the Bank accepted or agreed to accept a capital injection.

In addition to risk-based capital requirements, the Basel III reforms introduced a simpler, non risk-based Leverage ratio requirement to act as a supplementary measure to its risk-based capital requirements. The Leverage ratio is defined as a ratio of Basel III Tier 1 capital to a leverage exposure measure which includes on-balance sheet assets and off-balance sheet commitments, derivatives and securities financing transactions, as defined within the requirements. As a member of the BCBS, OSFI has adopted the Basel III Leverage requirements as part of its domestic requirements for banks, bank holding companies, federally regulated trust and loan companies in Canada.

In October 2014, OSFI released its Leverage Requirements Guideline which outlines the application of the Basel III Leverage ratio in Canada and the replacement of the former Assets-to-Capital Multiple (ACM), effective Q1 2015. Institutions are expected to maintain a material operating buffer above the 3% minimum. The Bank meets OSFI's authorized leverage ratio. Commencing Q1 2015, disclosure in accordance with OSFI's September 2014 Public Disclosure Requirements related to Basel III Leverage ratio has been made in the Supplementary Regulatory Capital Disclosure on pages 27-29.

OSFI has prescribed a minimum capital floor requirement for institutions that use the AIRB approach for credit risk. The capital floor add-on is determined by comparing a capital requirement calculated by reference to Basel I against the Basel III calculation, as prescribed by OSFI. A shortfall in the Basel III capital requirement compared with the Basel I capital floor is added to RWAs.

REGULATORY CAPITAL HIGHLIGHTS


(\$MM)	Basel III									
	Q4 2017		Q3 2017		Q2 2017		Q1 2017		Q4 2016	
	Transitional Approach	All-in Approach ⁽¹⁾	Transitional Approach	All-in Approach ⁽¹⁾	Transitional Approach	All-in Approach ⁽¹⁾	Transitional Approach	All-in Approach ⁽¹⁾	Transitional Approach	All-in Approach ⁽¹⁾
Common Equity Tier 1 capital	46,051	43,352	44,070	41,369	45,431	42,474	43,312	40,540	45,816	39,989
Tier 1 capital	50,623	49,473	47,076	45,913	48,357	47,048	46,415	45,247	47,668	45,066
Total capital	57,222	56,113	55,051	53,929	56,554	55,310	54,505	53,400	55,824	53,330
Risk-weighted Assets ⁽²⁾⁽³⁾										
CET1 Capital Risk-weighted Assets	387,292	376,379	376,358	365,411	381,977	374,876	362,326	359,611	368,215	364,048
Tier 1 Capital Risk-weighted Assets	387,292	376,379	376,358	365,411	381,977	375,148	362,326	359,942	368,215	364,504
Total Capital Risk-weighted Assets	387,292	376,379	376,358	365,411	381,977	375,366	362,326	360,208	368,215	364,894
Capital Ratios (%)										
Common Equity Tier 1 (as a percentage of risk-weighted assets)	11.9	11.5	11.7	11.3	11.9	11.3	12.0	11.3	12.4	11.0
Tier 1 (as a percentage of risk-weighted assets)	13.1	13.1	12.5	12.6	12.7	12.5	12.8	12.6	12.9	12.4
Total capital (as a percentage of risk-weighted assets)	14.8	14.9	14.6	14.8	14.8	14.7	15.0	14.8	15.2	14.6
Leverage:										
Leverage Exposures	1,053,928	1,052,891	1,033,500	1,032,443	1,063,119	1,061,939	1,006,799	1,005,757	1,013,346	1,010,987
Leverage Ratio (%)	4.8	4.7	4.6	4.4	4.5	4.4	4.6	4.5	4.7	4.5
OSFI Target: All-in Basis (%)										
Common Equity Tier 1 minimum ratio		8.0		8.0		8.0		8.0		8.0
Tier 1 capital all-in minimum ratio		9.5		9.5		9.5		9.5		9.5
Total capital all-in minimum ratio		11.5		11.5		11.5		11.5		11.5
Leverage all-in minimum ratio		3.0		3.0		3.0		3.0		3.0
Capital instruments subject to phase-out arrangements										
Current cap on Additional Tier 1 (AT1) instruments subject to phase-out arrangements (%)	50	50	50	50	50	50	50	50	60	60
Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	-	-	-	-	-	-	32	32	-	-
Current cap on Tier 2 (T2) instruments subject to phase-out arrangements (%)	50	50	50	50	50	50	50	50	60	60
Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	-	-	-	-	-	-	-	-	-	-

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

(2) As per OSFI guideline, effective Q1 2014, Credit Valuation Adjustment (CVA) RWA on derivatives was phased-in using Scalars. Commencing in Q1, 2017, the CVA risk-weighted assets have been calculated using scalars of 0.72, 0.77 and 0.81, to compute the CET1 capital ratio, Tier 1 capital ratio and Total capital ratio, respectively.

(3) After application of Basel I capital floor adjustments in Q3 2017 and Q4 2017.

REGULATORY CAPITAL - DEFINITION OF CAPITAL COMPONENTS



(\$MM)

	Cross-Reference ⁽¹⁾	All-in Q4 2017	All-in Q3 2017	
Common Equity Tier 1 Capital: Instruments and Reserves				
1	Directly issued qualifying common share capital plus related stock surplus	u+y	15,760	15,707
2	Retained Earnings	v	38,117	37,092
3	Accumulated Other Comprehensive Income	w	1,577	566
5	Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)	bb	636	622
6	Common Equity Tier 1 capital before regulatory adjustments		56,090	53,987
Common Equity Tier 1 Capital: Regulatory Adjustments				
8	Goodwill (net of related tax liability)	g	(7,736)	(7,619)
9	Intangibles other than mortgage-servicing rights (net of related tax liability)	h-q+i-r	(3,769)	(3,727)
10	Deferred tax assets that rely on future profitability excluding those arising from temporary differences (net of related tax liability)	k	(417)	(435)
11	Cash flow hedge reserve	x	(235)	(253)
12	Shortfall of allowances to expected losses	ee	-	(2)
14	Gains and losses due to changes in own credit risk on fair value liabilities	p	(126)	(143)
15	Defined-benefit pension fund net assets (net of related tax liability)	t-s	(171)	(126)
16	Investments in own shares (if not already netted off paid-in capital on reported balance sheet)	a	(9)	(10)
19	Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold)	e	(271)	(284)
22	Amount exceeding the 15% threshold		-	(16)
23	of which: significant investments in the common stock of financials	f	-	(11)
25	of which: deferred tax assets arising from temporary differences	j	-	(5)
26	Other deductions from CET1 as determined by OSFI	o	(4)	(3)
28	Total regulatory adjustments to Common Equity Tier 1		(12,738)	(12,618)
29	Common Equity Tier 1 Capital (CET1)		43,352	41,369
Additional Tier 1 Capital: Instruments				
30	Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	z	2,910	1,350
31	of which: classified as equity under applicable accounting standards		2,910	1,350
33	Directly issued capital instruments subject to phase-out from Additional Tier 1	aa ⁽²⁾	3,069	3,069
34	Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1)	cc	142	125
36	Additional Tier 1 capital before regulatory adjustments		6,121	4,544
Additional Tier 1 Capital: Regulatory Adjustments				
39	Non-significant investments in the capital of banking, financial and insurance entities, net of eligible short positions (amount above 10% threshold)		-	-
40	Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation (net of eligible short positions)	b	-	-
41	Other deductions from Tier 1 capital as determined by OSFI		-	-
43	Total regulatory adjustments to Additional Tier 1 capital		-	-
44	Additional Tier 1 Capital (AT1)		6,121	4,544
45	Tier 1 Capital (T1=CET1 + AT1)		49,473	45,913
Tier 2 Capital: Instruments and Provisions				
46	Directly issued qualifying Tier 2 instruments	m	3,569	3,516
47	Directly issued capital instruments subject to phase-out from Tier 2		2,366	3,860
48	Tier 2 instruments issued by subsidiaries and held by third parties (amount allowed in group Tier 2)	dd	103	89
50	Eligible Collective Allowance and Excess of allowance over expected loss	c+d	602	551
51	Tier 2 capital before regulatory adjustments		6,640	8,016

	Cross-Reference ⁽¹⁾	All-in Q4 2017	All-in Q3 2017	
Tier 2 Capital: Regulatory Adjustments				
57	Total regulatory adjustments to Tier 2 capital		-	-
58	Tier 2 Capital (T2)		6,640	8,016
59	Total Capital (TC = T1 + T2)		56,113	53,929
60	Total Risk-weighted Assets			
60a	Common Equity Tier 1 (CET1) Capital RWA		376,379	365,411
60b	Tier 1 Capital RWA		376,379	365,411
60c	Total Capital RWA		376,379	365,411
Capital Ratios and Buffers				
61	Common Equity Tier 1 (as a percentage of risk-weighted assets)		11.5	11.3
62	Tier 1 (as a percentage of risk-weighted assets)		13.1	12.6
63	Total capital (as a percentage of risk-weighted assets)		14.9	14.8
64	Institution specific buffer requirement (minimum CET1 requirement plus capital conservation and countercyclical buffer requirements, expressed as a percentage of risk-weighted assets)		8.0%	8.0%
65	of which: capital conservation buffer requirement		2.5%	2.5%
66	of which: bank specific countercyclical buffer requirement		0.0%	0.0%
67	of which: G-SIB buffer requirement		0.0%	0.0%
68	Common Equity Tier 1 available to meet buffers (as a percentage of risk weighted assets)		11.5	11.3
OSFI all-in target (minimum + capital conservation buffer + DSIB surcharge (if applicable))				
69	Common Equity Tier 1 All-in target ratio		8.0%	8.0%
70	Tier 1 capital all-in target ratio		9.5%	9.5%
71	Total capital all-in target ratio		11.5%	11.5%
Amounts below the thresholds for the deduction (before risk-weighting)				
72	Non-significant investments in the capital of other financial institutions		872	1,181
73	Significant investments in the common stock of financial institutions		4,362	4,156
75	Deferred tax assets arising from temporary differences (net of related tax liability)		2,073	2,049
Applicable caps on the inclusion of allowances in Tier 2				
76	Allowances eligible for inclusion in Tier 2 in respect to exposures subject to standardized approach (prior to application of cap)		554	551
77	Cap on inclusion of allowances in Tier 2 under standardized approach		1,401	1,377
78	Allowances eligible for inclusion in Tier 2 in respect to exposures subject to internal ratings-based approach (prior to application of cap)		48	-
79	Cap for inclusion of allowances in Tier 2 under internal ratings-based approach		1,225	1,213
Capital instruments subject to phase-out arrangements (only applicable between Jan 1 2018 and Jan 1 2022)				
80	Current cap on CET1 instruments subject to phase-out arrangements		50%	50%
81	Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)		-	-
82	Current cap on AT1 instruments subject to phase-out arrangements		50%	50%
83	Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)		-	-
84	Current cap on T2 instruments subject to phase-out arrangements		50%	50%
85	Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)		-	-

(1) Cross-referenced to the Consolidated Balance Sheet: Source of Definition of Capital Components on page 5 (refer to column: Under Regulatory Scope of Consolidation).

(2) Line 33 also includes \$1,400 of capital instruments issued by trusts not consolidated under accounting standard IFRS 10, effective Q1 2014.

CONSOLIDATED BALANCE SHEET: SOURCE OF DEFINITION OF CAPITAL COMPONENTS



(\$MM)	Cross Reference to Page 4 Definition of Capital Components	Consolidated Statement of Financial Position ⁽¹⁾	Under regulatory scope of consolidation ⁽²⁾	(\$MM)	Cross Reference to Page 4 Definition of Capital Components	Consolidated Statement of Financial Position ⁽¹⁾	Under regulatory scope of consolidation ⁽²⁾
		Q4 2017	Q4 2017			Q4 2017	Q4 2017
Assets				Liabilities			
Cash and deposits with financial institutions		59,663	59,128	Deposits			
Precious metals		5,717	5,717	Personal		200,030	200,030
Trading Assets				Business and government		384,988	384,988
Securities		78,652	78,648	Financial institutions		40,349	40,349
- Investment in own shares	a		9			625,367	625,367
- Other trading securities			78,639	Financial instruments designated at fair value through profit or loss		4,663	4,663
Loans		17,312	17,312	Other			
Other		2,500	2,500	Acceptances		13,560	13,560
		98,464	98,460	Obligations related to securities sold short		30,766	30,766
Financial assets designated at fair value through profit or loss		13	13	Derivative financial instruments		34,200	34,200
Securities purchased under resale agreements and securities borrowed		95,319	95,319	Obligations related to securities sold under repurchase agreements and securities lent		95,843	95,843
Derivative financial instruments		35,364	35,364	Subordinated debentures		5,935	5,935
Investment securities		69,269	68,589	- Regulatory capital amortization of maturing debentures			
- Significant investments in Additional Tier 1 capital of other financial institutions reflected in regulatory capital	b		-	- Subordinated debentures used for regulatory capital			
- Other securities ⁽³⁾			68,589	- of which: are included in Tier 2 capital	m		3,569
				- of which: are subject to phase-out included in Tier 2 capital (50%)			2,366
				- of which: are subject to phase-out not included in Tier 2 capital			
Loans				Other liabilities		43,314	40,975
Residential mortgages		236,916	236,758	- Liquidity reserves	o		4
Personal and credit cards ⁽³⁾		103,331	102,119	- Gains/losses due to changes in own credit risk including DVA on derivatives	p		126
Business and government ⁽³⁾		168,449	168,206	- Deferred tax liabilities			697
		508,696	507,083	- Intangible assets (excl. computer software and mortgage servicing rights)	q		813
Allowance for credit losses		4,327	4,327	- Intangible assets - computer software	r		281
- Collective Allowance reflected in Tier 2 capital	c		554	- Defined benefit pension fund assets	s		85
- Shortfall of allowances to expected loss	ee		-	- Other deferred tax liabilities			(482)
- Excess of allowances to expected loss			48	- Other liabilities			40,148
- Allowances not reflected in regulatory capital	d		3,725			223,618	221,279
Other				Total liabilities		853,648	851,309
Customers' liability under acceptances		13,560	13,560	Equity			
Property and equipment		2,381	2,377	Common equity			
Investments in associates		4,586	4,711	- Common shares	u	15,644	15,644
- Significant Investments in other financial institutions including deconsolidated subsidiaries exceeding 10% regulatory thresholds	e		271	- Retained earnings	v	38,117	38,117
- Significant Investments in other financial institutions including deconsolidated subsidiaries exceeding 15% regulatory thresholds	f		-	- Accumulated other comprehensive income (loss)	w	1,577	1,577
- Significant Investments in other financial institutions including deconsolidated subsidiaries within regulatory thresholds			4,440	- Cash flow hedging reserve	x		235
Goodwill & other intangible assets		12,106	12,599	- Other			1,342
- Goodwill	g		7,243	- Other reserves	y	116	116
- Imputed goodwill for significant investments	g		493	Total common equity		55,454	55,454
- Intangibles (excl. computer software)	h		2,906	Preferred shares		4,579	4,579
- Computer software intangibles	i		1,957	- of which: are qualifying Tier 1 capital	z		2,910
Deferred tax assets		1,713	1,712	- of which: are subject to phase out and included in Tier 1 capital (50%)	aa		1,669
- Deferred tax assets arising from temporary differences exceeding the regulatory threshold	j		-	- of which: are subject to phase out and not included into Tier 1 capital			-
- Deferred tax assets that rely on future profitability	k		417	Total equity attributable to equity holders of the Bank		60,033	60,033
- Deferred tax assets not deducted from regulatory capital			1,295	Non-controlling interests			
Other assets		12,749	12,628	Non-controlling interests in subsidiaries		1,592	1,592
- Defined pension fund assets	l		256	- portion allowed for inclusion into CET1	bb		636
- Other assets			12,372	- portion allowed for inclusion into Tier 1 capital	cc		142
		47,095	47,587	- portion allowed for inclusion into Tier 2 capital	dd		103
				- portion not allowed for regulatory capital			711
Total assets		915,273	912,934	Total equity		61,625	61,625
				Total liabilities and equity		915,273	912,934

(1) Consolidated Statement of Financial Position as reported in the 2017 Annual Report - (page 128).

(2) Legal Entities that are within the accounting scope of consolidation but excluded from the regulatory scope of consolidation represent the Bank's insurance subsidiaries whose principle activities include insurance, reinsurance, property and casualty insurance. Key subsidiaries are Scotia Insurance Barbados Ltd (assets: \$501MM, equity: \$185MM), Scotia Life Insurance Company (assets: \$140MM, equity: \$190MM), Scotia Jamaica Life Insurance Co. Ltd (assets: \$571MM, equity: \$82MM), Scotia Life Trinidad and Tobago Ltd (assets: \$383MM, equity: \$62MM) and Scotia Seguros (assets: \$91MM, equity: \$7MM).

(3) Effective Q3 2016, securitized credit card exposures are excluded from the regulatory scope of consolidation under OSF's Securitization Framework.

BALANCE SHEET ASSET CATEGORIES CROSS-REFERENCED TO CREDIT RISK EXPOSURES


	Credit Risk Exposures						Other Exposures		Total
	Drawn		Other Exposures				Market Risk Exposures	All Other ⁽¹⁾	
	Non-retail	Retail	Securitization	Repo-style Transactions	OTC Derivatives	Equity	Also subject to Credit Risk		
As at October 31, 2017 (\$MM)									
Cash and deposits with financial institutions	57,104	-	-	-	-	-	-	2,559	59,663
Precious metals	-	-	-	-	-	-	5,717	-	5,717
Trading assets:									
Securities	-	-	-	-	-	-	78,652	-	78,652
Loans	9,087	-	-	-	-	-	9,087	8,225	17,312
Other	-	-	-	-	-	-	2,500	-	2,500
Financial assets designated at fair value through profit or loss	13	-	-	-	-	-	-	-	13
Securities purchased under resale agreements and securities borrowed	-	-	-	95,319	-	-	-	-	95,319
Derivative financial instruments	-	-	-	-	35,364	-	30,648	-	35,364
Investment securities	67,255	-	-	-	-	1,281	-	733	69,269
Loans:									
Residential mortgages ⁽²⁾	95,692	141,066	-	-	-	-	-	158	236,916
Personal and credit cards	-	100,181	2,038	-	-	-	-	1,112	103,331
Business & government	158,510	2,878	7,032	-	-	-	-	29	168,449
Allowances for credit losses ⁽³⁾	(649)	-	-	-	-	-	-	(3,678)	(4,327)
Customers' liability under acceptances	13,560	-	-	-	-	-	-	-	13,560
Property and equipment	-	-	-	-	-	-	-	2,381	2,381
Investments in associates	-	-	-	-	-	-	-	4,586	4,586
Goodwill and other intangible assets	-	-	-	-	-	-	-	12,106	12,106
Other (including Deferred tax assets)	1,805	545	-	-	-	-	-	12,112	14,462
Total	402,377	244,670	9,070	95,319	35,364	1,281	39,735	95,094	32,098

	Credit Risk Exposures						Other Exposures		Total
	Drawn		Other Exposures				Market Risk Exposures	All Other ⁽¹⁾	
	Non-retail	Retail	Securitization	Repo-style Transactions	OTC Derivatives	Equity	Also subject to Credit Risk		
As at July 31, 2017 (\$MM)									
Cash and deposits with financial institutions	55,263	-	-	-	-	-	-	2,487	57,750
Precious metals	-	-	-	-	-	-	7,621	-	7,621
Trading assets:									
Securities	-	-	-	-	-	-	86,090	-	86,090
Loans	9,509	-	-	-	-	-	9,509	7,456	16,965
Other	-	-	-	-	-	-	2,093	-	2,093
Financial assets designated at fair value through profit or loss	15	-	-	-	-	-	-	216	231
Securities purchased under resale agreements and securities borrowed	-	-	-	85,901	-	-	-	-	85,901
Derivative financial instruments	-	-	-	-	37,255	-	33,062	-	37,255
Investment securities	65,209	-	731	-	-	1,880	-	681	68,501
Loans:									
Residential mortgages ⁽²⁾	99,317	132,268	-	-	-	-	-	152	231,737
Personal and credit cards	-	98,813	2,246	-	-	-	-	1,108	102,167
Business & government	158,746	2,767	7,398	-	-	-	-	34	168,945
Allowances for credit losses ⁽³⁾	(897)	-	-	-	-	-	-	(3,393)	(4,290)
Customers' liability under acceptances	11,810	-	-	-	-	-	-	-	11,810
Property and equipment	-	-	-	-	-	-	-	2,228	2,228
Investments in associates	-	-	-	-	-	-	-	4,382	4,382
Goodwill and other intangible assets	-	-	-	-	-	-	-	11,931	11,931
Other (including Deferred tax assets)	1,343	523	-	-	-	-	-	13,149	15,015
Total	400,315	234,371	10,375	85,901	37,255	1,880	42,571	103,476	32,759

(1) Includes the Bank's insurance subsidiaries' assets and all other assets which are not subject to credit and market risks.

(2) Includes \$93.1 billion (Q3, 2017 - \$96.8 billion) in mortgages guaranteed by Canada Mortgage Housing Corporation (CMHC) and portions of privately insured mortgages. CMHC guarantees under the PD substitution are reclassified to sovereign.

(3) Amounts for AIRB exposures are reported gross of allowances and amounts for Standardized exposures are reported net of allowances.

FLOW STATEMENT FOR REGULATORY CAPITAL



	Basel III All-in											
	Q4 2017	Q3 2017	Q2 2017	Q1 2017	Q4 2016	Q3 2016	Q2 2016	Q1 2016	Q4 2015	Q3 2015	Q2 2015	Q1 2015
(\$MM)												
Common Equity Tier 1 (CET1) capital												
Opening amount	41,369	42,474	40,540	39,989	37,690	35,911	37,645	36,965	36,077	34,750	34,389	33,742
Net income attributable to equity holders of the Bank	2,015	2,045	1,997	1,948	1,939	1,897	1,523	1,758	1,783	1,795	1,757	1,679
Dividends paid to equity holders of the Bank	(976)	(940)	(947)	(934)	(924)	(904)	(899)	(871)	(870)	(851)	(853)	(832)
Shares issued	61	21	93	138	185	114	22	42	22	33	16	26
Shares repurchased/redeemed	-	(299)	(572)	(138)	-	-	(15)	(65)	(311)	(170)	(29)	(445)
Removal of own credit spread (net of tax)	17	132	(4)	40	5	(8)	143	(142)	(26)	(59)	37	(110)
Movements in other comprehensive income, excluding cash flow hedges	1,029	(2,740)	1,611	(534)	894	627	(2,835)	842	(330)	1,376	(1,180)	1,586
Currency translation differences	1,007	(2,885)	1,835	(1,151)	802	991	(2,826)	1,455	(276)	1,400	(1,450)	2,259
Available-for-sale investments	(23)	(92)	103	(49)	(49)	33	13	(177)	(306)	(87)	(33)	(43)
Employee Benefits	29	222	(338)	667	133	(386)	(25)	(443)	246	80	303	(643)
Other	16	15	11	(1)	8	(11)	3	7	6	(17)	-	13
Goodwill and other intangible assets (deduction, net of related tax liability)	(159)	370	(233)	106	(123)	(166)	(121)	(161)	(27)	(462)	157	(208)
Other, including regulatory adjustments and transitional arrangements	(4)	306	(11)	(75)	323	219	448	(723)	647	(335)	456	(1,049)
Deferred tax assets that rely on future probability	18	9	23	17	3	11	41	-	45	18	13	5
Threshold deductions	29	284	(181)	32	373	203	308	(655)	552	(288)	421	(1,044)
Other	(51)	13	147	(124)	(53)	5	99	(68)	50	(65)	22	(10)
Closing Amount	43,352	41,369	42,474	40,540	39,989	37,690	35,911	37,645	36,965	36,077	34,750	34,389
Other Additional Tier 1 capital												
Opening amount	4,544	4,574	4,707	5,077	4,574	4,848	4,338	4,401	4,397	4,327	4,328	4,331
Capital issuances	1,560	-	-	-	500	-	500	350	-	-	-	-
Redeemed capital	-	-	(230)	(345)	-	(345)	(345)	-	-	-	-	-
Other, capital including regulatory adjustments and transitional arrangements	17	(30)	97	(25)	3	71	355	(413)	4	70	(1)	(3)
Closing Amount	6,121	4,544	4,574	4,707	5,077	4,574	4,848	4,338	4,401	4,397	4,327	4,328
Total Tier 1 capital	49,473	45,913	47,048	45,247	45,066	42,264	40,759	41,983	41,366	40,474	39,077	38,717
Tier 2 capital												
Opening amount	8,016	8,262	8,153	8,264	8,207	8,080	8,430	6,864	6,837	6,786	5,637	5,519
Capital issuances	-	-	-	-	-	-	-	2,537	-	-	1,250	-
Redeemed capital	(1,500)	-	-	-	-	(16)	(19)	(1,000)	-	-	-	-
Amortization adjustments	-	-	-	-	-	-	-	-	-	-	-	-
Other, including regulatory adjustments and transitional adjustments	124	(246)	109	(111)	57	143	(331)	29	27	51	(101)	118
Closing Amount	6,640	8,016	8,262	8,153	8,264	8,207	8,080	8,430	6,864	6,837	6,786	5,637
Total regulatory capital	56,113	53,929	55,310	53,400	53,330	50,471	48,839	50,413	48,230	47,311	45,863	44,354

RISK-WEIGHTED ASSETS AND CAPITAL RATIOS


(\$B)	Basel III - All-in											
	Q4 2017	Q3 2017	Q2 2017	Q1 2017	Q4 2016	Q3 2016	Q2 2016	Q1 2016	Q4 2015	Q3 2015	Q2 2015	Q1 2015
RISK-WEIGHTED ASSETS:⁽¹⁾												
On-Balance Sheet Assets												
Cash Resources	3.1	3.0	4.3	3.5	3.7	3.9	4.1	3.7	3.3	3.3	3.0	3.2
Securities	8.8	9.2	10.2	9.4	9.6	10.7	10.3	11.2	9.5	10.3	11.4	12.4
Residential Mortgages	30.0	28.8	27.9	25.7	25.0	23.2	22.5	25.9	25.0	24.9	22.2	21.9
Loans												
- Personal Loans	53.3	52.1	51.9	50.5	52.0	49.5	49.0	48.7	46.2	45.2	43.4	43.9
- Non-Personal Loans	116.0	115.1	121.0	114.6	118.8	118.6	120.4	125.1	117.4	111.7	104.8	106.9
All Other	30.0	29.5	29.8	29.2	28.8	27.6	27.0	29.0	28.9	28.7	26.6	27.2
	241.2	237.7	245.1	232.9	237.9	233.5	233.2	243.6	230.3	224.1	211.4	215.5
Off-Balance Sheet Assets												
Indirect Credit Instruments	52.8	51.6	58.1	53.1	54.1	51.0	48.5	49.2	49.2	46.8	43.2	43.4
Derivative Instruments	10.7	11.2	12.0	13.4	12.1	12.9	13.2	20.0	17.9	18.2	16.8	19.7
	63.5	62.8	70.1	66.5	66.2	63.9	61.7	69.2	67.1	65.0	60.0	63.1
Total Credit Risk before AIRB scaling factor	304.7	300.5	315.2	299.4	304.1	297.4	294.9	312.8	297.4	289.1	271.4	278.6
AIRB Scaling factor ⁽²⁾	10.5	10.3	10.9	10.4	10.7	10.5	10.6	11.1	10.6	10.2	9.6	9.8
Total Credit Risk after AIRB scaling factor	315.2	310.8	326.1	309.8	314.8	307.9	305.5	323.9	308.0	299.3	281.0	288.4
Market Risk - Risk Assets Equivalent	7.8	8.9	9.2	10.6	10.6	11.7	13.9	14.1	14.4	13.5	13.5	13.1
Operational Risk - Risk Assets Equivalent	40.6	40.1	39.6	39.2	38.6	38.1	37.5	36.5	35.6	35.2	34.2	33.7
Basel I Capital Floor Adjustment to CET1 RWA	12.8	5.6	-	-	-	-	-	-	-	-	-	-
CET1 Risk-weighted Assets⁽³⁾⁽⁴⁾	376.4	365.4	374.9	359.6	364.0	357.7	356.9	374.5	358.0	348.0	328.7	335.2
Tier 1 Risk-weighted Assets⁽³⁾⁽⁴⁾	376.4	365.4	375.1	359.9	364.5	358.2	357.4	375.4	358.8	348.8	329.4	336.1
Total Risk-weighted Assets⁽³⁾⁽⁴⁾	376.4	365.4	375.4	360.2	364.9	358.6	357.8	376.1	359.5	349.5	330.1	336.9
REGULATORY CAPITAL RATIOS (%):												
Common Equity Tier 1	11.5	11.3	11.3	11.3	11.0	10.5	10.1	10.1	10.3	10.4	10.6	10.3
Tier 1	13.1	12.6	12.5	12.6	12.4	11.8	11.4	11.2	11.5	11.6	11.9	11.5
Total	14.9	14.8	14.7	14.8	14.6	14.1	13.6	13.4	13.4	13.5	13.9	13.2

(1) For purposes of this presentation only, Risk-weighted Assets (RWA) are shown by balance sheet categories. Details by Basel III exposure type are shown on pages 11-12 entitled, "Exposure at Default and Risk-Weighted Assets for Credit Risk Portfolios".

(2) The Basel Framework requires an additional 6% scaling factor to AIRB credit risk portfolios (excluding exposures with a risk-weight of 1250%).

(3) In accordance with OSFI's requirements, in 2017 scalars for CVA risk-weighted assets (RWA) of 0.72, 0.77 and 0.81 were used to compute the CET1 capital ratio, Tier 1 capital ratio and Total capital ratio, respectively.

(4) After application of Basel I capital floor adjustments of \$12.8 billion, \$12.6 billion and \$12.4 billion (Q3, 2017 - \$5.6 billion, \$5.3 billion and \$5.1 billion) for CET1 RWA, Tier 1 RWA, and Total RWA, respectively.

MOVEMENT OF RISK-WEIGHTED ASSETS BY RISK TYPE (ALL-IN BASIS)


Credit Risk Risk-weighted Assets (RWA) (\$MM)	Q4 2017		Q3 2017	
	Credit Risk ⁽¹⁾	Of which Counterparty Credit Risk	Credit Risk ⁽¹⁾	Of which Counterparty Credit Risk
CET1 Credit risk-weighted assets as at beginning of Quarter	310,837	16,536	326,110	17,509
Book size ⁽²⁾	1,503	(103)	6,809	156
Book quality ⁽³⁾	(2,677)	(430)	(3,685)	(39)
Model updates ⁽⁴⁾	-	-	(1,659)	219
Methodology and policy ⁽⁵⁾	-	-	-	-
Acquisitions and disposals	-	-	-	-
Foreign exchange movements	5,496	491	(16,738)	(1,309)
Other	-	-	-	-
CET1 Credit risk-weighted assets as at end of Quarter	315,159	16,494	310,837	16,536
Tier 1 CVA scalar	208	208	259	259
Tier 1 Credit risk-weighted assets as at end of Quarter	315,367	16,702	311,096	16,795
Total CVA scalar	166	166	207	207
Total Credit risk-weighted assets as at end of Quarter	315,533	16,868	311,303	17,002

(1) In accordance with OSFI's requirements, in 2017 scalars for CVA risk-weighted assets (RWA) of 0.72, 0.77 and 0.81 were used to compute the CET1 capital ratio, Tier 1 capital ratio and Total capital ratio, respectively.

(2) Book size is defined as organic changes in book size and composition (including new business and maturing loans).

(3) Book quality is defined as quality of book changes, including those caused by experience such as underlying customer behaviour or demographics, and changes through model calibrations/realignments. Included in Q3 2017, are parameter recalibrations of -\$3.7 billion RWA.

(4) Model updates are defined as model implementation, change in model scope or any change to address model enhancement.

(5) Methodology and policy is defined as methodology changes to the calculations driven by regulatory policy changes, such as new regulation (e.g. Basel III).

Market Risk RWA (\$MM)	Q4 2017	Q3 2017
Market risk-weighted assets as at beginning of Quarter	8,904	9,152
Movement in risk levels ⁽¹⁾	(1,025)	(248)
Model updates ⁽²⁾	(40)	-
Methodology and policy ⁽³⁾	-	-
Acquisitions and disposals	-	-
Other	-	-
Market risk-weighted assets as at end of Quarter	7,839	8,904

(1) Movement in risk levels are defined as changes in risk due to position changes and market movements. Foreign exchange movements are embedded within Movement in risk levels.

(2) Model updates are defined as updates to the model to reflect recent experience and change in model scope.

(3) Methodology and policy is defined as methodology changes to the calculations driven by regulatory policy changes (e.g. Basel III).

Operational Risk RWA (\$MM)	Q4 2017	Q3 2017
Operational risk-weighted assets as at beginning of Quarter	40,081	39,614
Acquisitions and disposals	-	-
Higher Revenue	483	463
Operational risk-weighted assets as at end of Quarter	40,564	40,077

RISK-WEIGHTED ASSETS ARISING FROM THE ACTIVITIES OF THE BANK'S BUSINESSES


CET1 Risk-weighted Assets (RWA)	Q4 2017				All Bank ⁽¹⁾
	Canadian Banking	International Banking	Global Banking & Markets	Other ⁽¹⁾	
CET1 RWA (\$B)	\$120.3	\$134.0	\$100.2	\$21.9	\$376.4
Proportion of Bank	32%	36%	27%	5%	100%
Comprised of:					
Credit risk	85%	88%	87%	37%	84%
Market risk	- %	1%	5%	7%	2%
Operational risk	15%	11%	8%	-2%	11%
Other	- %	- %	- %	58%	3%

CET1 Risk-weighted Assets (RWA)	Q3 2017				All Bank ⁽¹⁾
	Canadian Banking	International Banking	Global Banking & Markets	Other ⁽¹⁾	
CET1 RWA (\$B)	\$118.6	\$133.6	\$98.5	\$14.7	\$365.4
Proportion of Bank	32%	37%	27%	4%	100%
Comprised of:					
Credit risk	85%	87%	87%	57%	85%
Market risk	- %	2%	5%	8%	2%
Operational risk	15%	11%	8%	-3%	11%
Other	- %	- %	- %	38%	2%

(1) Includes Basel I capital floor adjustments.

EXPOSURE AT DEFAULT AND RISK-WEIGHTED ASSETS FOR CREDIT RISK PORTFOLIOS (CONTINUED)



(SMM) Exposure Type		Sub-type		Basel III													
				Q4 2015		Q3 2015		Q2 2015		Q1 2015		Q4 2014		Q3 2014		Q2 2014	
		EAD ⁽¹⁾	RWA ⁽²⁾	EAD ⁽¹⁾	RWA ⁽²⁾	EAD ⁽¹⁾	RWA ⁽²⁾	EAD ⁽¹⁾	RWA ⁽²⁾	EAD ⁽¹⁾	RWA ⁽²⁾	EAD ⁽¹⁾	RWA ⁽²⁾	EAD ⁽¹⁾	RWA ⁽²⁾	EAD ⁽¹⁾	RWA ⁽²⁾
Non-Retail																	
Corporate	Drawn	157,514	112,836	151,360	106,697	146,075	100,609	145,012	101,339	130,621	90,240	128,408	90,365	128,608	90,079	121,562	86,649
	Undrawn	58,915	29,035	56,306	27,606	51,361	24,589	53,974	24,963	47,082	22,314	44,855	21,274	41,619	19,554	42,968	20,444
	Other ⁽³⁾	40,425	15,476	43,981	16,093	37,643	14,254	35,068	12,327	31,678	11,496	31,704	11,246	26,552	10,126	30,930	11,540
	Total	256,854	157,347	251,647	150,396	235,079	139,452	234,054	138,629	209,381	124,050	204,967	122,885	196,779	119,759	195,460	118,633
Bank	Drawn	27,165	8,344	27,400	7,109	25,700	6,679	32,358	8,435	25,883	7,500	26,237	7,882	29,067	9,053	34,833	9,949
	Undrawn	11,386	3,726	11,741	3,793	11,406	3,672	12,222	3,914	10,954	3,356	11,552	3,559	10,620	3,279	11,879	3,507
	Other ⁽³⁾	14,906	3,253	12,351	2,188	10,190	1,830	9,535	1,753	8,195	1,486	7,929	1,394	8,228	1,370	7,904	1,304
	Total	53,457	15,323	51,492	13,090	47,296	12,181	54,115	14,102	45,032	12,342	45,718	12,835	47,915	13,702	54,616	14,760
Sovereign	Drawn	96,263	4,203	102,869	5,471	80,325	5,527	82,035	5,544	76,107	4,858	68,768	4,664	77,072	4,717	71,279	5,145
	Undrawn	2,133	355	1,802	168	1,543	161	1,465	139	1,352	140	1,353	177	1,359	189	1,440	263
	Other ⁽³⁾	1,016	36	694	46	544	15	1,137	63	805	33	775	26	856	31	1,191	28
	Total	99,412	4,594	105,365	5,685	82,412	5,703	84,637	5,746	78,264	5,031	70,896	4,867	79,287	4,937	73,910	5,436
Total Non-retail	Drawn	280,942	125,383	281,629	119,277	252,100	112,815	259,405	115,318	232,611	102,598	223,413	102,911	234,747	103,849	227,674	101,743
	Undrawn	72,434	33,116	69,849	31,567	64,310	28,422	67,661	29,016	59,388	25,810	57,760	25,010	53,598	23,022	56,287	24,214
	Other ⁽³⁾	56,347	18,765	57,026	18,327	48,377	16,099	45,740	14,143	40,678	13,015	40,408	12,666	35,636	11,527	40,025	12,872
	Total	409,723	177,264	408,504	169,171	364,787	157,336	372,806	158,477	332,677	141,423	321,581	140,587	323,981	138,398	323,986	138,829
Retail																	
Residential Mortgages	Drawn	215,590	24,967	214,183	24,854	211,805	22,196	213,185	21,893	211,341	19,766	210,743	19,360	210,451	19,466	210,691	19,085
	Undrawn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	215,590	24,967	214,183	24,854	211,805	22,196	213,185	21,893	211,341	19,766	210,743	19,360	210,451	19,466	210,691	19,085
Secured Lines Of Credit	Drawn	18,804	4,197	18,992	4,207	19,047	4,293	18,952	4,435	19,115	4,487	18,590	4,409	18,459	4,509	18,220	4,552
	Undrawn	12,631	1,133	12,553	1,181	12,354	1,158	12,312	1,243	12,209	1,282	17,724	1,857	13,265	1,394	13,052	1,370
	Total	31,435	5,330	31,545	5,388	31,401	5,451	31,264	5,678	31,324	5,769	36,314	6,266	31,724	5,903	31,272	5,922
Qualifying Revolving	Drawn	16,910	10,031	16,602	9,662	16,426	9,556	16,257	9,564	16,011	9,356	15,953	7,622	15,653	7,153	15,412	7,171
	Undrawn	17,705	2,241	17,123	2,135	16,734	2,058	16,716	2,151	16,196	2,105	18,311	2,360	13,638	1,674	13,400	1,678
	Total	34,615	12,272	33,725	11,797	33,160	11,614	32,973	11,715	32,207	11,461	34,264	9,982	29,291	8,827	28,812	8,849
Other Retail	Drawn	53,313	32,002	51,959	31,308	48,315	29,555	48,656	29,929	47,080	28,848	45,380	27,624	42,989	26,216	41,754	25,405
	Undrawn	712	178	677	164	660	156	667	165	659	161	999	126	736	91	733	91
	Total	54,025	32,180	52,636	31,472	48,975	29,711	49,323	30,094	47,739	29,009	46,379	27,750	43,725	26,307	42,487	25,496
Total Retail	Drawn	304,617	71,197	301,736	70,031	295,593	65,600	297,050	65,821	293,547	62,457	290,666	59,015	287,552	57,344	286,077	56,213
	Undrawn	31,048	3,552	30,353	3,480	29,748	3,372	29,695	3,559	29,064	3,548	37,034	4,343	27,639	3,159	27,185	3,139
	Total	335,665	74,749	332,089	73,511	325,341	68,972	326,745	69,380	322,611	66,005	327,700	63,358	315,191	60,503	313,262	59,352
Securitized		21,000	2,759	20,926	3,705	20,083	3,711	21,166	4,086	19,982	4,621	18,163	4,947	19,406	5,527	19,900	7,273
Trading Derivatives		28,234	8,232	30,013	8,485	28,854	7,971	36,673	10,178	25,249	8,041	22,886	7,559	22,139	7,454	23,638	7,284
Derivatives - credit valuation adjustment ⁽⁴⁾		-	7,183	-	7,282	-	6,732	-	8,154	-	5,632	-	5,039	-	4,793	-	5,003
Total Credit risk (excl. Equities & Other Assets)		794,622	270,187	791,532	262,154	739,065	244,722	757,390	250,275	700,519	225,722	690,330	221,490	680,717	216,675	680,786	217,741
Equities		2,985	2,985	3,427	3,427	3,636	3,636	4,132	4,132	4,269	4,269	4,451	4,451	4,002	4,002	4,019	4,019
Other Assets		50,873	24,265	52,878	23,551	54,146	23,056	59,475	24,208	52,288	23,065	52,377	23,550	52,771	22,224	57,028	22,930
		848,480	297,437	847,837	289,132	796,847	271,414	820,997	278,615	757,076	253,056	747,158	249,491	737,490	242,901	741,833	244,690
Add-on for 6% scaling factor ⁽⁵⁾			10,597		10,183		9,593		9,801		8,831		8,672		8,491		8,506
Total Credit Risk		848,480	308,034	847,837	299,315	796,847	281,007	820,997	288,416	757,076	261,887	747,158	258,163	737,490	251,392	741,833	253,196

(1) Exposure at default, before credit risk mitigation for AIRB exposures, after related allowances for credit losses for Standardized exposures.

(2) CET1 Risk-weighted Assets.

(3) Includes lending instruments such as letters of credit and letters of guarantee; banking book derivatives and repo-style exposures, net of related collateral.

(4) In accordance with OSFI's requirements, in 2017 scalars for CVA risk-weighted assets (RWA) of 0.72, 0.77 and 0.81 were used to compute the CET1 capital ratio, Tier 1 capital ratio and Total capital ratio, respectively.

(5) The Basel Framework requires an additional 6% scaling factor to AIRB credit risk portfolios (excluding exposure with risk weight of 1250%).

CREDIT RISK EXPOSURES BY GEOGRAPHY ⁽¹⁾⁽²⁾

Exposure at Default

(\$MM)	Basel III									
	Q4 2017					Q3 2017				
	Non-Retail			Retail	Total	Non-Retail			Retail	Total
	Drawn	Undrawn	Other ⁽³⁾			Drawn	Undrawn	Other ⁽³⁾		
Canada	95,801	37,900	40,926	327,597	502,224	90,904	35,342	34,684	321,910	482,840
USA	88,623	31,008	37,755	-	157,386	88,289	29,577	38,806	-	156,672
Mexico	17,389	1,152	2,535	9,452	30,528	17,579	1,177	4,968	9,478	33,202
Peru	15,873	1,551	3,415	7,894	28,733	15,175	1,422	3,332	7,545	27,474
Chile	12,004	754	1,756	12,676	27,190	11,466	857	2,157	11,826	26,306
Colombia	4,782	150	337	5,590	10,859	4,685	149	419	5,333	10,586
Other International										
Europe	25,216	6,586	11,228	-	43,030	27,517	6,386	9,441	-	43,344
Caribbean	18,554	1,554	1,299	17,951	39,358	18,230	1,633	1,300	17,321	38,484
Latin America (other)	7,489	542	299	705	9,035	6,454	566	537	668	8,225
All Other	23,551	3,696	2,823	-	30,070	23,223	3,568	2,563	-	29,354
Total	309,282	84,893	102,373	381,865	878,413	303,522	80,677	98,207	374,081	856,487

	Basel III				
	Q2 2017	Q1 2017	Q4 2016	Q3 2016	Q2 2016
Canada	481,291	472,304	468,923	462,242	448,512
USA	151,257	141,195	143,808	161,506	155,502
Mexico	30,094	24,561	26,873	24,431	24,467
Peru	29,973	27,368	28,328	26,338	26,101
Chile	26,701	24,367	23,510	22,995	21,271
Colombia	11,399	10,597	10,943	10,318	10,837
Other International					
Europe	47,129	41,444	41,525	44,132	43,796
Caribbean	42,217	40,009	41,168	40,010	38,794
Latin America (other)	9,433	8,995	8,908	9,151	9,598
All Other	30,869	31,651	30,929	31,666	32,344
Total	860,363	822,491	824,915	832,789	811,222

(1) Before credit risk mitigation, excluding AFS equity securities and other assets.

(2) Geographic segmentation is based upon the location of the ultimate risk of the credit exposure.

(3) Includes off-balance sheet lending instruments such as letters of credit and letters of guarantee, OTC derivatives, securitization and repo-style transactions net of related collateral.

AIRB CREDIT RISK EXPOSURES BY MATURITY ⁽¹⁾⁽²⁾



NON-RETAIL AND RETAIL PORTFOLIO EXPOSURE AT DEFAULT

(\$MM)	Basel III							
	Q4 2017				Q3 2017			
	Drawn	Undrawn	Other ⁽³⁾	Total	Drawn	Undrawn	Other ⁽³⁾	Total
Non-Retail								
Less than 1 year	134,454	23,128	55,542	213,124	131,012	21,664	63,176	215,852
1 to 5 years	105,995	54,653	31,439	192,087	103,278	51,653	25,590	180,521
Over 5 Years	9,596	1,561	12,060	23,217	10,078	1,780	6,451	18,309
Total Non-Retail	250,045	79,342	99,041	428,428	244,368	75,097	95,217	414,682
Retail								
Less than 1 year	34,389	16,656		51,045	31,620	16,190		47,810
1 to 5 years	178,940	-		178,940	177,145	-		177,145
Over 5 Years	16,299	-		16,299	17,009	-		17,009
Revolving Credits ⁽⁴⁾	38,582	27,445		66,027	38,489	26,726		65,215
Total Retail	268,210	44,101		312,311	264,263	42,916		307,179
Total	518,255	123,443	99,041	740,739	508,631	118,013	95,217	721,861

	Basel III			
	Q2 2017	Q1 2017	Q4 2016	Q3 2016
Non-Retail				
Less than 1 year	211,844	197,585	195,369	221,088
1 to 5 years	187,145	182,036	188,751	179,413
Over 5 Years	20,113	17,458	18,880	20,236
Total Non-Retail	419,102	397,079	403,000	420,737
Retail				
Less than 1 year	39,967	41,006	44,215	44,934
1 to 5 years	176,341	173,686	167,999	163,994
Over 5 Years	19,388	18,908	20,243	21,247
Revolving Credits ⁽⁴⁾	64,051	62,991	58,285	57,408
Total Retail	299,747	296,591	290,742	287,583
Total	718,849	693,670	693,742	708,320

(1) Before credit risk mitigation, excluding AFS equity securities and other assets.

(2) Remaining term to maturity of the credit exposure.

(3) Off-balance sheet lending instruments such as letters of credit and letters of guarantee, securitization, derivatives and repo-style transactions net of related collateral.

(4) Credit cards and lines of credit with unspecified maturity.

STANDARDIZED CREDIT RISK EXPOSURES BY RISK-WEIGHT



EXPOSURE AT DEFAULT ⁽¹⁾

(\$MM)	Basel III													
	Q4 2017							Q3 2017						
	Non-Retail			Retail				Non-Retail				Retail		
	Corporate	Bank	Sovereign	Total	Res Mtgs	Other Retail	Total	Corporate	Bank	Sovereign	Total	Res Mtgs	Other Retail	Total
0%	2,139	-	3,983	6,122	2,650	1,348	3,998	2,013	-	4,365	6,378	2,159	1,470	3,629
20%	614	540	-	1,154	1,593	-	1,593	725	642	-	1,367	1,587	-	1,587
35%	-	-	-	-	19,771	-	19,771	-	-	-	-	19,069	-	19,069
50%	80	40	2,031	2,151	4	129	133	63	46	1,923	2,032	-	277	277
75%	-	-	-	-	8,842	33,164	42,006	-	-	-	-	8,442	31,979	40,421
100%	55,557	2,039	323	57,919	1,142	-	1,142	54,746	2,237	101	57,084	1,048	-	1,048
150%+	774	-	-	774	-	911	911	863	-	-	863	-	871	871
Total	59,164	2,619	6,337	68,120	34,002	35,552	69,554	58,410	2,925	6,389	67,724	32,305	34,597	66,902

Risk-weight	Basel III													
	Q2 2017		Q1 2017		Q4 2016		Q3 2016		Q2 2016		Q1 2016		Q4 2015	
	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail
0%	7,981	3,107	6,892	2,779	7,801	2,507	7,117	2,078	6,375	1,886	6,921	1,895	6,115	1,689
20%	1,400	1,780	1,259	1,737	2,326	1,823	2,037	1,821	2,306	1,985	3,362	2,223	1,695	2,146
35%	-	19,343	-	17,715	-	17,025	-	16,295	-	15,819	-	16,733	-	16,004
50%	1,808	339	282	331	462	345	634	419	835	203	916	186	478	215
75%	-	42,226	-	39,257	-	41,048	-	36,866	-	35,648	-	36,021	-	32,321
100%	60,318	1,135	55,967	1,117	55,022	1,221	54,192	1,295	53,109	1,288	56,139	1,421	54,632	1,313
150%+	1,165	912	648	837	761	832	716	998	735	760	823	739	539	712
Total	72,672	68,842	65,048	63,773	66,372	64,801	64,696	59,772	63,360	57,589	68,161	59,218	63,459	54,400

(1) Net of specific allowances for credit losses, after credit risk mitigation.

NON-RETAIL AIRB PORTFOLIO - CREDIT QUALITY

(SMM)	Category external ratings ⁽¹⁾	Internal grades	PD bands ⁽²⁾	Basel III										Q3 2017				
				Q4 2017				RWA	Weighted Average PD ⁽⁴⁾⁽⁷⁾	Weighted Average LGD ⁽⁵⁾⁽⁷⁾	Weighted Average RW ⁽⁶⁾⁽⁷⁾	Total Exposure at Default ⁽³⁾	RWA	Weighted Average PD ⁽⁴⁾⁽⁷⁾	Weighted Average LGD ⁽⁵⁾⁽⁷⁾	Weighted Average RW ⁽⁶⁾⁽⁷⁾		
				Drawn Exposure at Default ⁽³⁾	Undrawn Exposure at Default ⁽³⁾	Other Exposure at Default ⁽³⁾	Total Exposure at Default ⁽³⁾										Total Exposure at Default ⁽³⁾	RWA
\$	\$	\$	\$	\$	%	%	%	\$	\$	%	%	%						
Investment Grade																		
<u>Corporate</u>																		
		99	0.00% - 0.05%	75,099	58,019	38,701	171,819	47,327	0.12	42	28	165,101	45,944	0.13	41	28		
	AAA to AA+	98	0.00% - 0.05%	344	237	513	1,094	108	0.03	45	10	1,321	112	0.03	45	8		
	AA to A-	95	0.05% - 0.13%	370	1,777	235	2,382	250	0.04	33	10	1,277	139	0.04	25	11		
	AA to A-	90	0.06% - 0.14%	6,391	6,727	6,643	19,761	2,943	0.05	40	15	18,161	2,572	0.05	40	14		
	BBB+ to BBB	87	0.09% - 0.22%	15,905	13,779	9,683	39,367	6,450	0.06	37	16	37,044	6,145	0.06	37	17		
	BBB+ to BBB	85	0.13% - 0.32%	15,131	11,924	9,040	36,095	8,986	0.09	41	25	32,975	8,061	0.09	41	24		
	BBB-	83	0.19% - 0.46%	16,883	12,446	6,902	36,231	12,156	0.15	44	34	37,209	12,632	0.15	44	34		
				20,075	11,129	5,685	36,889	16,434	0.24	46	45	37,114	16,283	0.24	45	44		
<u>Bank</u>																		
		99	0.00% - 0.05%	17,923	2,463	18,268	38,654	7,103	0.10	36	18	34,513	6,389	0.10	37	19		
	AAA to AA+	98	0.00% - 0.05%	16	210	-	226	12	0.03	31	5	22	2	0.03	40	11		
	AA to A-	95	0.05% - 0.13%	1,192	690	891	2,773	322	0.04	30	12	2,399	280	0.04	30	12		
	AA to A-	90	0.06% - 0.14%	7,264	447	4,559	12,270	1,852	0.05	41	15	9,676	1,840	0.05	45	19		
	BBB+ to BBB	87	0.09% - 0.22%	5,326	973	7,210	13,509	2,330	0.08	33	17	13,276	1,882	0.08	33	14		
	BBB+ to BBB	85	0.13% - 0.32%	1,121	64	2,315	3,500	670	0.12	34	19	3,003	584	0.12	36	19		
	BBB-	83	0.19% - 0.46%	1,723	9	1,246	2,978	878	0.24	36	29	3,525	1,097	0.24	36	31		
				1,281	70	2,047	3,398	1,039	0.24	32	31	2,612	704	0.25	33	27		
<u>Sovereign</u>																		
		99	0.00% - 0.05%	91,844	790	5,186	97,820	2,461	0.03	11	3	97,986	2,371	0.03	11	2		
	AAA to AA+	98	0.00% - 0.05%	66,284	133	3,271	69,688	-	-	9	-	69,220	-	-	9	-		
	AA to A-	95	0.05% - 0.13%	3,156	15	574	3,745	238	0.04	15	6	3,802	248	0.04	15	7		
	AA to A-	90	0.06% - 0.14%	13,771	364	705	14,840	1,021	0.05	18	7	15,848	995	0.05	16	6		
	BBB+ to BBB	87	0.09% - 0.22%	1,938	22	552	2,512	186	0.11	18	7	2,531	196	0.10	17	8		
	BBB+ to BBB	85	0.13% - 0.32%	4,639	1	24	4,664	498	0.22	14	11	4,229	409	0.22	13	10		
	BBB-	83	0.19% - 0.46%	934	236	-	1,170	195	0.32	15	17	1,192	208	0.32	15	17		
				1,122	19	60	1,201	323	0.46	24	27	1,164	315	0.46	24	27		
Sub-Total				184,866	61,272	62,155	308,293	56,891	0.09	31	18	297,600	54,704	0.09	31	18		
Non-Investment Grade																		
<u>Corporate</u>																		
	BB+	80	0.29% - 0.51%	55,272	16,988	12,490	84,750	52,766	0.65	43	62	81,148	50,588	0.65	43	62		
	BB	77	0.47% - 0.57%	23,093	9,141	2,759	34,993	18,266	0.34	44	52	32,857	17,476	0.34	45	53		
	BB-	75	0.57% - 0.75%	14,642	3,831	2,223	20,696	12,257	0.49	43	59	21,770	12,540	0.49	43	58		
	B+	73	0.75% - 1.44%	11,236	2,338	6,198	19,772	13,624	0.75	43	69	17,293	11,924	0.75	43	69		
	B to B-	70	1.44% - 2.77%	3,925	911	1,009	5,845	5,076	1.44	39	87	6,048	5,351	1.44	40	88		
				2,376	767	301	3,444	3,543	2.77	39	103	3,180	3,297	2.77	39	104		
<u>Bank</u>																		
	BB+	80	0.29% - 0.51%	1,728	97	336	2,161	1,052	0.63	36	49	2,326	1,148	0.60	37	49		
	BB	77	0.47% - 0.57%	469	9	162	640	298	0.47	38	47	874	424	0.47	38	48		
	BB-	75	0.57% - 0.75%	1,179	61	100	1,340	629	0.57	35	47	1,278	602	0.57	35	47		
	B+	73	0.75% - 1.44%	33	18	44	95	54	0.75	38	57	107	56	0.75	39	52		
	B to B-	70	1.44% - 2.77%	2	2	2	6	5	1.44	36	83	8	7	1.44	35	85		
				45	7	28	80	66	2.77	35	83	59	59	2.77	40	98		
<u>Sovereign</u>																		
	BB+	80	0.29% - 0.51%	3,431	28	24	3,483	1,027	1.08	17	29	3,475	1,139	1.51	17	33		
	BB	77	0.47% - 0.57%	600	-	2	602	137	0.51	17	23	573	123	0.51	17	21		
	BB-	75	0.57% - 0.75%	989	1	19	1,009	281	0.57	22	28	954	266	0.57	21	28		
	B+	73	0.75% - 1.44%	190	25	3	218	25	0.75	8	11	313	48	0.75	11	15		
	B to B-	70	1.44% - 2.77%	1,420	-	-	1,420	527	1.44	16	37	261	15	1.44	3	6		
				232	2	-	234	57	2.77	9	24	1,374	687	2.77	18	50		
Sub-Total				60,431	17,113	12,850	90,394	54,845	0.66	42	61	86,949	52,875	0.68	42	61		

(1) The cross references of the Bank's internal borrower grades (IG) with equivalent rating categories utilized by external rating agencies are outlined on page 203 of the Bank's 2017 Annual Report.

(2) PD ranges overlap across IG codes as the Bank utilizes two risk rating systems for its AIRB portfolios and each risk rating system has its own separate IG to PD mapping.

(3) Amounts are before credit risk mitigation (excludes government guaranteed residential mortgages), and includes all non-retail exposures except securitization, equity and other assets.

(4) PD - Probability of Default, see glossary for details.

(5) LGD - Loss Given Default including certain conservative factors as per Basel accord, see glossary for details.

(6) RW - risk weight.

(7) Exposure at default (EAD) used as basis for estimated weightings, see glossary for details.

RISK ASSESSMENT OF CREDIT RISK EXPOSURES - NON-RETAIL AIRB PORTFOLIO (CONTINUED)

NON-RETAIL AIRB PORTFOLIO - CREDIT QUALITY

(\$MM)			Basel III										Q3 2017				
			Q4 2017					Q3 2017					Q3 2017				
Category external ratings ⁽¹⁾	Internal grades	PD bands ⁽²⁾	Drawn	Undrawn	Other	Total	RWA	Weighted	Weighted	Weighted	Total	RWA	Weighted	Weighted	Weighted		
			Exposure at Default ⁽³⁾	Exposure at Default ⁽³⁾	Exposure at Default ⁽³⁾	Exposure at Default ⁽³⁾		Average PD ⁽⁴⁾⁽⁷⁾	Average LGD ⁽⁵⁾⁽⁷⁾	Average RW ⁽⁶⁾⁽⁷⁾			Exposure at Default ⁽³⁾	Average PD ⁽⁴⁾⁽⁷⁾	Average LGD ⁽⁵⁾⁽⁷⁾	Average RW ⁽⁶⁾⁽⁷⁾	
			\$	\$	\$	\$	\$	%	%	%	\$	\$	%	%	%		
Watch List (CCC+ to CC)																	
Corporate	65 - 30	2.77% - 59.51%	2,462	559	259	3,280	5,989	22.61	39	183	3,793	7,131	22.48	39	188		
Bank	65 - 30	2.77% - 59.51%	81	1	5	87	146	20.50	35	169	121	193	19.58	34	160		
Sovereign	65 - 30	2.77% - 59.51%	1,030	1	-	1,031	322	10.18	8	31	1,048	317	10.18	8	30		
Sub-Total			3,573	561	264	4,398	6,457	19.66	32	147	4,962	7,641	19.81	32	154		
Default⁽⁸⁾																	
Corporate	27-21	100%	1,173	396	181	1,750	6,298	100.00	44	360	1,891	7,180	100.00	45	380		
Bank	27-21	100%	2	-	-	2	-	100.00	33	0	2	-	100.00	33	0		
Sovereign	27-21	100%	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sub-Total			1,175	396	181	1,752	6,298	100.00	44	359	1,893	7,180	100.00	45	379		
Total			250,045	79,342	75,450	404,837	124,491	0.86	34	31	391,404	122,400	0.96	33	31		

(1) The cross references of the Bank's internal borrower grades (IG) with equivalent rating categories utilized by external rating agencies are outlined on page 203 of the Bank's 2017 Annual Report.

(2) PD ranges overlap across IG codes as the Bank utilizes two risk rating systems for its AIRB portfolios and each risk rating system has its own separate IG to PD mapping.

(3) Amounts are before credit risk mitigation (excludes government guaranteed residential mortgages), and includes all non-retail exposures except securitization, equity and other assets.

(4) PD - Probability of Default, see glossary for details.

(5) LGD - Loss Given Default including certain conservative factors as per Basel accord, see glossary for details.

(6) RW - risk weight.

(7) Exposure at default (EAD) used as basis for estimated weightings, see glossary for details.

(8) EAD for defaulted exposures before related specific provisions and write-offs.

NON-RETAIL AIRB PORTFOLIO - CREDIT COMMITMENTS

(\$MM)	Basel III			
	Q4 2017		Q3 2017	
	Notional Undrawn	Weighted Average EAD	Notional Undrawn	Weighted Average EAD
Exposure Type ⁽¹⁾				
	\$	%	\$	%
Corporate	140,296	53	133,876	52
Bank	4,277	57	4,022	57
Sovereign	1,242	59	1,174	57
Total	145,815	53	139,072	52

(1) Excludes unconditionally cancellable commitments.

RETAIL AIRB PORTFOLIO EXPOSURES - CREDIT QUALITY ⁽¹⁾

Category of PD Grades	PD Range	Basel III Q4 2017								
		EAD ⁽²⁾	Notional of undrawn commitments	Exposure weighted-average EAD ⁽³⁾	Exposure weighted-average PD	Exposure weighted-average LGD ⁽⁴⁾	Exposure weighted-average RW	RWA	EL	EL adjusted average risk weight ⁽⁵⁾
		\$	\$	%	%	%	%	\$	\$	%
Residential Real Estate Secured⁽⁶⁾										
Insured Drawn and Undrawn⁽⁷⁾										
Exceptionally Low	0.01% to 0.04%	93,122	-	100.00	0.00	22	-	1	-	-
Very Low	0.05% to 0.19%	1,906	1	99.98	0.05	20	3	55	-	3
Low	0.20% to 0.99%	2,699	-	101.60	0.37	20	12	332	2	13
Medium Low	1.00% to 2.99%	-	-	101.31	2.02	23	45	-	-	51
Medium	3.00% to 9.99%	-	-	102.85	4.96	21	69	-	-	82
High	10.00% to 19.99%	-	-	-	-	-	-	-	-	-
Extremely High	20.00% to 99.99%	1	-	102.85	52.22	21	103	1	-	240
Default	100%	19	-	100.00	100.00	71	-	-	13	890
Sub-total		97,747	1	100.04	0.03	22	0	389	15	1
Uninsured Undrawn										
Exceptionally Low	0.00% to 0.04%	-	-	-	-	-	-	-	-	-
Very Low	0.05% to 0.19%	14,720	37,917	19.41	0.08	23	5	663	3	5
Low	0.20% to 0.99%	495	1,110	22.29	0.62	32	29	144	1	32
Medium Low	1.00% to 2.99%	106	218	24.39	2.02	35	69	73	1	77
Medium	3.00% to 9.99%	23	47	24.38	4.96	27	87	20	-	104
High	10.00% to 19.99%	10	17	29.41	13.70	26	133	13	-	177
Extremely High	20.00% to 99.99%	2	1	99.63	37.16	28	156	3	-	288
Default	100%	-	-	100.00	-	-	-	-	-	-
Sub-total		15,356	39,310	19.56	0.13	23	6	916	5	6
Uninsured Drawn										
Exceptionally Low	0.00% to 0.04%	3,573	-	100.00	0.05	27	4	129	-	4
Very Low	0.05% to 0.19%	48,105	-	100.00	0.07	20	4	1,880	8	4
Low	0.20% to 0.99%	63,500	-	100.00	0.53	22	17	11,094	76	19
Medium Low	1.00% to 2.99%	6,384	-	100.00	2.51	25	55	3,533	39	63
Medium	3.00% to 9.99%	672	-	100.00	6.05	24	84	563	9	101
High	10.00% to 19.99%	369	-	100.00	13.74	23	115	425	11	154
Extremely High	20.00% to 99.99%	321	-	100.00	36.49	20	109	350	24	201
Default	100%	228	-	100.00	100.00	63	-	-	143	783
Sub-total		123,152	-	100.00	0.79	22	15	17,974	310	18
Qualifying Revolving Retail Exposures (QRRE)										
Exceptionally Low	0.00% to 0.04%	11,844	16,852	34.10	0.05	77	2	287	4	3
Very Low	0.05% to 0.19%	8,609	11,347	36.56	0.17	68	7	561	10	8
Low	0.20% to 0.99%	11,659	8,829	51.83	0.50	79	17	1,934	45	21
Medium Low	1.00% to 2.99%	5,836	1,237	80.87	1.39	87	43	2,498	72	58
Medium	3.00% to 9.99%	5,493	988	84.52	5.57	86	109	5,998	265	170
High	10.00% to 19.99%	-	-	-	-	-	-	-	-	-
Extremely High	20.00% to 99.99%	783	20	100.63	35.05	82	216	1,689	223	572
Default	100%	160	-	100.00	100.00	89	-	-	142	1,112
Sub-total		44,384	39,273	53.03	2.03	78	29	12,967	761	51
Other Retail										
Exceptionally Low	0.00% to 0.04%	582	784	35.35	0.05	74	10	60	-	11
Very Low	0.05% to 0.19%	7,168	2	99.96	0.10	50	13	901	4	13
Low	0.20% to 0.99%	15,727	798	95.12	0.51	56	39	6,131	45	43
Medium Low	1.00% to 2.99%	4,743	11	99.74	1.74	65	80	3,815	54	95
Medium	3.00% to 9.99%	2,394	2	99.93	5.38	63	94	2,247	80	136
High	10.00% to 19.99%	511	-	100.00	19.73	57	127	648	58	268
Extremely High	20.00% to 99.99%	346	-	99.99	41.25	58	151	523	83	450
Default	100%	201	-	100.00	100.00	91	-	-	183	1,141
Sub-total		31,672	1,597	96.33	2.35	57	45	14,325	507	65
Total Retail										
Exceptionally Low	0.01% to 0.04%	109,121	17,636	92.50	0.01	28	0	477	4	0
Very Low	0.05% to 0.19%	80,508	49,267	78.48	0.09	28	5	4,060	25	5
Low	0.20% to 0.99%	94,080	10,737	92.85	0.52	35	21	19,635	169	23
Medium Low	1.00% to 2.99%	17,069	1,466	92.92	1.91	57	58	9,919	166	70
Medium	3.00% to 9.99%	8,582	1,037	89.87	5.56	75	103	8,828	354	155
High	10.00% to 19.99%	890	17	99.23	17.18	43	122	1,086	69	220
Extremely High	20.00% to 99.99%	1,453	21	100.34	36.86	62	177	2,566	330	460
Default	100%	608	-	100.00	100.00	79	-	-	481	991
Total		312,311	80,181	89.01	0.85	34	15	46,571	1,598	21

(1) Represents retail exposures under the AIRB Approach which are domiciled in Canada.

(2) Amounts are before allowance for credit losses and before credit risk mitigation.

(3) EAD rate represents combined drawn and undrawn exposure for a facility.

(4) Effective November 1, 2016, new exposures secured by residential real estate located in Canada are subject to a downturn LGD (DLGD) floor equivalent to the sum of the segment's long-run default-weighted average LGD and an add-on. The Bank implemented DLGD floor in Q1, 2017.

(5) EL adjusted average risk weight is calculated as (RWA + 12.5 X EL) / EAD.

(6) Includes Canadian residential mortgages and home equity lines of credit.

(7) The Bank uses the PD Substitution approach to reflect default insurance.

RETAIL AIRB PORTFOLIO EXPOSURES - CREDIT QUALITY ⁽¹⁾

Category of PD Grades	PD Range	Basel III								
		Q3 2017								
		EAD ⁽²⁾	Notional of undrawn commitments	Exposure weighted-average EAD ⁽³⁾	Exposure weighted-average PD	Exposure weighted-average LGD ⁽⁴⁾	Exposure weighted-average RW	RWA	EL	EL adjusted average risk weight ⁽⁵⁾
\$	\$	%	%	%	%	\$	\$	%		
Residential Real Estate Secured⁽⁶⁾										
Insured Drawn and Undrawn⁽⁷⁾										
Exceptionally Low	0.01% to 0.04%	96,821	-	100.00	0.00	23	-	1	-	-
Very Low	0.05% to 0.19%	1,911	1	99.97	0.05	21	3	57	-	3
Low	0.20% to 0.99%	2,518	-	93.86	0.40	22	14	348	2	15
Medium Low	1.00% to 2.99%	-	-	102.85	2.02	36	70	-	-	79
Medium	3.00% to 9.99%	-	-	102.40	4.96	23	74	-	-	88
High	10.00% to 19.99%	-	-	-	-	-	-	-	-	-
Extremely High	20.00% to 99.99%	1	-	102.85	28.54	21	123	1	-	198
Default	100%	20	-	100.00	100.00	69	-	-	14	868
Sub-total		101,271	1	99.84	0.03	23	0	407	16	1
Uninsured Undrawn										
Exceptionally Low	0.00% to 0.04%	-	-	-	-	-	-	-	-	-
Very Low	0.05% to 0.19%	14,439	37,267	19.37	0.08	23	4	639	3	5
Low	0.20% to 0.99%	429	1,000	21.44	0.62	29	26	113	1	29
Medium Low	1.00% to 2.99%	107	212	25.31	2.02	35	68	73	1	77
Medium	3.00% to 9.99%	21	46	22.56	4.96	25	81	17	-	96
High	10.00% to 19.99%	9	15	29.65	13.70	26	135	12	-	180
Extremely High	20.00% to 99.99%	2	1	98.14	37.63	26	141	3	-	265
Default	100%	-	-	100.00	-	-	-	-	-	-
Sub-total		15,007	38,541	19.50	0.13	23	6	857	5	6
Uninsured Drawn										
Exceptionally Low	0.00% to 0.04%	3,749	-	100.00	0.05	27	4	135	-	4
Very Low	0.05% to 0.19%	46,357	-	100.00	0.07	21	4	1,851	8	4
Low	0.20% to 0.99%	58,782	-	100.00	0.53	23	18	10,655	73	20
Medium Low	1.00% to 2.99%	5,649	-	100.00	2.50	25	55	3,123	35	63
Medium	3.00% to 9.99%	714	-	100.00	6.17	23	82	582	10	99
High	10.00% to 19.99%	376	-	100.00	13.75	23	115	432	12	154
Extremely High	20.00% to 99.99%	367	-	100.00	36.87	19	105	388	26	196
Default	100%	232	-	100.00	100.00	60	-	-	140	755
Sub-total		116,226	-	100.00	0.82	22	15	17,166	304	18
Qualifying Revolving Retail Exposures (QRRE)										
Exceptionally Low	0.00% to 0.04%	11,722	16,591	34.24	0.05	77	2	283	4	3
Very Low	0.05% to 0.19%	8,400	11,042	36.61	0.17	69	7	549	10	8
Low	0.20% to 0.99%	11,399	8,504	52.15	0.49	79	16	1,878	43	21
Medium Low	1.00% to 2.99%	5,804	1,196	81.11	1.40	87	44	2,528	72	59
Medium	3.00% to 9.99%	5,410	948	84.91	5.58	86	109	5,919	262	170
High	10.00% to 19.99%	-	-	-	-	-	-	-	-	-
Extremely High	20.00% to 99.99%	739	17	101.02	35.35	82	215	1,587	213	574
Default	100%	160	-	100.00	100.00	90	-	-	144	1,126
Sub-total		43,634	38,298	53.26	2.02	78	29	12,744	748	51
Other Retail										
Exceptionally Low	0.00% to 0.04%	580	777	35.45	0.05	74	10	60	-	11
Very Low	0.05% to 0.19%	6,973	2	99.95	0.10	50	13	874	4	13
Low	0.20% to 0.99%	15,170	687	95.58	0.51	56	39	5,909	43	43
Medium Low	1.00% to 2.99%	4,743	12	99.73	1.74	65	80	3,800	54	94
Medium	3.00% to 9.99%	2,447	1	99.96	5.40	63	94	2,304	83	136
High	10.00% to 19.99%	531	-	100.00	19.74	57	127	675	60	268
Extremely High	20.00% to 99.99%	397	-	100.00	41.64	58	151	598	96	452
Default	100%	200	-	100.00	100.00	92	-	-	184	1,150
Sub-total		31,041	1,479	96.58	2.48	57	46	14,220	524	67
Total Retail										
Exceptionally Low	0.01% to 0.04%	112,872	17,368	92.84	0.01	29	0	479	4	0
Very Low	0.05% to 0.19%	78,080	48,312	78.27	0.09	29	5	3,970	25	5
Low	0.20% to 0.99%	88,298	10,191	92.51	0.52	36	21	18,903	162	24
Medium Low	1.00% to 2.99%	16,303	1,420	92.70	1.88	59	58	9,524	162	71
Medium	3.00% to 9.99%	8,592	995	90.30	5.58	74	103	8,822	355	154
High	10.00% to 19.99%	916	15	99.30	17.22	43	122	1,119	72	221
Extremely High	20.00% to 99.99%	1,506	18	100.50	37.38	60	171	2,577	335	449
Default	100%	612	-	100.00	100.00	79	-	-	482	985
Total		307,179	78,319	89.03	0.86	34	15	45,394	1,597	21

(1) Represents retail exposures under the AIRB Approach which are domiciled in Canada.

(2) Amounts are before allowance for credit losses and before credit risk mitigation.

(3) EAD rate represents combined drawn and undrawn exposure for a facility.

(4) Effective November 1, 2016, new exposures secured by residential real estate located in Canada are subject to a downturn LGD (DLGD) floor equivalent to the sum of the segment's long-run default-weighted average LGD and an add-on. The Bank implemented DLGD floor in Q1, 2017.

(5) EL adjusted average risk weight is calculated as (RWA + 12.5 X EL) / EAD.

(6) Includes Canadian residential mortgages and home equity lines of credit.

(7) The Bank uses the PD Substitution approach to reflect default insurance.

Exposure Type	Basel III									
	Q4 2017		Q3 2017		Q2 2017		Q1 2017		Q4 2016	
	Actual Loss Rate	Expected Loss Rate	Actual Loss Rate	Expected Loss Rate	Actual Loss Rate	Expected Loss Rate	Actual Loss Rate	Expected Loss Rate	Actual Loss Rate	Expected Loss Rate
	%	%	%	%	%	%	%	%	%	%
Non-Retail⁽¹⁾										
Corporate	0.07	0.80	0.11	0.81	0.14	0.78	0.22	0.67	0.25	0.80
Sovereign	-	0.02	-	0.02	-	0.02	-	0.04	-	0.02
Bank	-	0.08	-	0.09	-	0.10	-	0.11	-	0.09
Retail⁽²⁾										
Real Estate Secured	0.01	0.12	0.01	0.11	0.01	0.11	0.01	0.13	0.01	0.12
QRRE	3.18	4.22	2.77	4.16	2.62	4.23	2.36	4.29	2.21	4.37
Other Retail	0.69	1.85	0.66	1.91	0.62	1.86	0.59	1.86	0.60	1.72

(1) Non-retail actual loss rates represent the credit losses net of recoveries for the current and prior three quarters divided by the 5-point average of outstanding loan balances for the same four-quarter period beginning 12 months ago. Expected loss rates represent the expected losses that were predicted at the beginning of the four-quarter period divided by outstanding loan balances at the beginning of the four-quarter period.

(2) Retail actual loss rates represent write-offs net of recoveries for the current and prior three quarters divided by the 5-point average of outstanding loan balances for the same four-quarter period beginning 12 months ago. Expected loss rates represent the expected losses that were predicted at the beginning of the four-quarter period divided by outstanding loan balances at the beginning of the four-quarter period.

ESTIMATED AND ACTUAL LOSS PARAMETERS - NON-RETAIL AND RETAIL AIRB PORTFOLIOS


	Q4 2017 ⁽¹⁾						Q3 2017 ⁽¹⁾					
	Average estimated PD %	Actual default rate %	Average estimated LGD %	Actual LGD %	Average estimated CCF ⁽²⁾ %	Actual CCF ⁽²⁾ %	Average estimated PD %	Actual default rate %	Average estimated LGD %	Actual LGD %	Average estimated CCF ⁽²⁾ %	Actual CCF ⁽²⁾ %
Non-Retail	0.92	0.40	41.59	22.18	51.28	5.69	0.89	0.45	41.22	22.85	51.33	9.03

⁽¹⁾ Reporting is on a one quarter lag basis. For reporting as of Q4/17, estimated parameters are based on portfolio averages at Q3/16 whereas actual parameters are based on averages of realized parameters during the subsequent four quarters (Q4/16 – Q3/17).

⁽²⁾ EAD back-testing is performed through Credit Conversion Factor (CCF) back-testing, as EAD is computed using the sum of the drawn exposure and undrawn exposure multiplied by the estimated CCF.

(\$MM)	Four-quarter period ending Q4 2017 ⁽¹⁾						Four-quarter period ending Q3 2017 ⁽¹⁾					
	Average estimated PD ⁽²⁾⁽⁷⁾ %	Actual default rate ⁽²⁾⁽⁵⁾ %	Average estimated LGD ⁽³⁾⁽⁷⁾ %	Actual LGD ⁽³⁾⁽⁶⁾ %	Estimated EAD ⁽⁴⁾⁽⁷⁾ \$	Actual EAD ⁽⁴⁾⁽⁵⁾ \$	Average estimated PD ⁽²⁾⁽⁷⁾ %	Actual default rate ⁽²⁾⁽⁵⁾ %	Average estimated LGD ⁽³⁾⁽⁷⁾ %	Actual LGD ⁽³⁾⁽⁶⁾ %	Estimated EAD ⁽⁴⁾⁽⁷⁾ \$	Actual EAD ⁽⁴⁾⁽⁵⁾ \$
Residential real estate secured												
Residential mortgages												
Insured mortgages ⁽⁸⁾	0.69	0.59	-	-	-	-	0.73	0.60	-	-	-	-
Uninsured mortgages	0.46	0.44	18.12	10.82	-	-	0.49	0.48	17.87	10.90	-	-
Secured lines of credit	0.77	0.32	28.95	13.95	107	92	0.76	0.31	28.99	14.72	103	90
Qualifying revolving retail exposures	2.14	1.92	77.54	63.91	743	650	2.09	1.98	77.37	63.21	756	659
Other retail	2.21	1.32	58.90	47.12	8	8	2.14	1.33	58.58	45.84	7	7

(1) Estimates and Actual Values are recalculated to align with new models implemented during the period.

(2) Account weighted aggregation.

(3) Default weighted aggregation.

(4) EAD is estimated for revolving products only.

(5) Actual based on accounts not at default as at four quarters prior to reporting date.

(6) Actual LGD calculated based on 24 month recovery period after default and therefore excludes any recoveries received after the 24 month period.

(7) Estimates are based on the four quarters prior to the reporting date.

(8) Actual and Estimated LGD for insured mortgages are not shown. Actual LGD includes the insurance benefit, whereas estimated LGD may not.

EXPOSURE AT DEFAULT ⁽¹⁾

(\$MM)	Basel III														
	Q4 2017			Q3 2017			Q2 2017			Q1 2017			Q4 2016		
	Financial Collateral	Guarantees / Credit Derivatives		Financial Collateral	Guarantees / Credit Derivatives		Financial Collateral	Guarantees / Credit Derivatives		Financial Collateral	Guarantees / Credit Derivatives		Financial Collateral	Guarantees / Credit Derivatives	
Exposure type	Standardized Approach	Standardized Approach	AIRB Approach	Standardized Approach	Standardized Approach	AIRB Approach	Standardized Approach	Standardized Approach	AIRB Approach	Standardized Approach	Standardized Approach	AIRB Approach	Standardized Approach	Standardized Approach	AIRB Approach
Non-Retail															
Corporate	635	1,974	16,341	628	1,866	15,745	580	1,840	19,210	472	1,559	18,722	527	1,509	17,919
Bank	-	-	9,273	-	-	8,436	-	-	8,703	-	-	9,428	-	-	9,727
Sovereign	-	73	6,109	2	76	6,288	-	-	6,124	-	86	7,272	-	95	7,701
Total Non-Retail	635	2,047	31,723	630	1,942	30,469	580	1,840	34,037	472	1,645	35,422	527	1,604	35,347
Retail															
Residential Mortgages ⁽²⁾	4	4,243	93,095	-	3,746	96,794	-	3,522	98,354	-	3,165	101,005	-	2,945	102,514
Secured Lines of Credit															
Qualifying Revolving Retail Exposures (QRRE)															
Other Retail	373	1,104	-	547	1,199	-	637	1,067	-	613	1,071	-	637	1,105	-
Total Retail	377	5,347	93,095	547	4,945	96,794	637	4,589	98,354	613	4,236	101,005	637	4,050	102,514
Total	1,012	7,394	124,818	1,177	6,887	127,263	1,217	6,429	132,391	1,085	5,881	136,427	1,164	5,654	137,861

(1) Includes drawn, undrawn and other off-balance sheet exposures (e.g., letters of credit and letters of guarantee) covered by eligible collateral and guarantees.

(2) Primarily includes insured drawn Canadian residential mortgages (e.g. CMHC insured mortgages).

DERIVATIVES - COUNTERPARTY CREDIT RISK ⁽¹⁾


(SMM)	Basel III															
	Q4 2017				Q3 2017				Q2 2017				Q1 2017			
Contract Types	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount ⁽³⁾	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount ⁽³⁾	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount ⁽³⁾	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount ⁽³⁾
Interest Rate Contracts:																
Futures and Forward Rate Agreements	491,651	20	95	20	415,898	17	157	14	476,404	17	251	14	332,808	35	204	25
Swaps	2,803,343	250	5,459	1,341	2,640,075	94	4,716	1,350	2,343,203	840	6,046	1,626	2,230,451	755	5,938	1,774
Options Purchased	39,664	5	105	57	51,756	12	106	49	40,690	44	161	77	47,480	5	103	51
Options Written	40,993	-	15	3	51,034	-	124	36	43,454	11	14	3	39,102	-	95	21
Total	3,375,651	275	5,674	1,421	3,158,763	123	5,103	1,449	2,903,751	912	6,472	1,720	2,649,841	795	6,340	1,871
Foreign Exchange Contracts:																
Futures and Forwards	481,187	2,370	6,367	1,765	436,986	2,379	4,961	1,493	461,815	3,529	5,124	1,375	444,052	2,642	5,051	1,303
Swaps	386,010	4,023	7,308	1,899	363,821	3,908	6,722	2,015	377,982	4,298	7,359	1,881	360,893	3,735	6,693	1,821
Options Purchased	39,116	523	515	113	29,540	752	578	152	26,363	565	554	226	21,701	446	507	233
Options Written	40,028	-	83	12	30,850	-	69	10	26,732	-	77	38	21,607	-	44	20
Total	946,341	6,916	14,273	3,789	861,197	7,039	12,330	3,670	892,892	8,392	13,114	3,520	848,253	6,823	12,295	3,377
Other Derivatives Contracts:																
Equity	101,390	45	5,123	1,575	91,683	160	5,291	1,470	100,502	431	4,966	1,740	105,035	12	5,043	1,670
Credit	37,591	12	1,421	174	37,431	18	1,423	217	42,705	90	1,205	196	43,928	11	1,975	496
Other	87,415	9	10,953	807	95,161	145	8,361	683	118,764	696	11,342	905	111,153	23	7,163	1,259
Total	226,396	66	17,497	2,556	224,275	323	15,075	2,370	261,971	1,217	17,513	2,841	260,116	46	14,181	3,425
Credit Valuation Adjustment⁽²⁾⁽³⁾				2,988				3,733				3,923				4,769
Total Derivatives after Netting and Collateral	4,548,388	7,257	37,444	10,754	4,244,235	7,485	32,508	11,222	4,058,614	10,521	37,099	12,004	3,758,210	7,664	32,816	13,442

	Basel III							
	Q4 2016		Q3 2016		Q2 2016		Q1 2016	
Contract Types	Notional Amount	Risk-weighted Amount ⁽³⁾	Notional Amount	Risk-weighted Amount ⁽³⁾	Notional Amount	Risk-weighted Amount ⁽³⁾	Notional Amount	Risk-weighted Amount
Interest Rate Contracts:								
Futures and Forward Rate Agreements	422,104	17	517,818	19	707,435	12	936,412	52
Swaps	2,294,534	2,125	2,404,362	2,321	2,442,636	1,913	2,850,581	2,083
Options Purchased	50,830	52	58,697	59	67,398	62	69,257	150
Options Written	40,147	-	50,236	-	59,001	-	62,841	-
Total	2,807,615	2,194	3,031,113	2,399	3,276,470	1,987	3,919,091	2,285
Foreign Exchange Contracts:								
Futures and Forwards	485,153	1,342	484,425	1,564	477,938	1,949	543,686	2,055
Swaps	354,604	1,594	341,829	1,359	334,784	1,434	364,107	2,545
Options Purchased	16,616	129	20,451	134	9,244	129	5,766	126
Options Written	16,245	19	20,173	16	8,850	3	4,920	-
Total	872,618	3,084	866,878	3,073	830,816	3,515	918,479	4,726
Other Derivatives Contracts:								
Equity	87,908	1,677	77,185	1,556	63,384	1,618	64,934	2,201
Credit	49,058	340	46,779	388	49,220	505	60,447	611
Other	78,753	645	76,838	739	80,213	809	86,902	1,930
Total	215,719	2,662	200,802	2,683	192,817	2,932	212,283	4,742
Total Derivatives	3,895,952	7,940	4,098,793	8,155	4,300,103	8,434	5,049,853	11,753
Credit Valuation Adjustment⁽²⁾⁽³⁾		4,165		4,749		4,778		8,305
Risk-weighted Amount		12,105		12,904		13,212		20,058

(1) The impact of Master Netting Agreements and Collateral has been incorporated within the various contracts. As a result, risk-weighted amounts are reported net of impact of collateral and master netting arrangements.

(2) As per OSFI guideline, Credit Valuation Adjustment RWA on derivatives was phased-in in 2014. Starting Q1, 2017 the CVA risk-weighted assets have been calculated using the scalars of 0.72, 0.77 and 0.81, to compute the CET1 capital ratio, Tier 1 capital ratio and Total capital ratio, respectively.

(3) As of Q2 2016, the bank implemented the Internal Modelling Method for determination of Counterparty Credit Risk and Credit Valuation Adjustment RWA.

RISK-WEIGHTED ASSETS FOR SECURITIZATION EXPOSURES - BANKING BOOK⁽¹⁾


(\$MM)			Basel III															
			Q4 2017				Q3 2017				Q2 2017				Q1 2017			
Risk Category	External Rating (S&P)	Risk-Weight %	Exposure at Default ⁽²⁾			Risk-Weighted Assets	Exposure at Default ⁽²⁾			Risk-Weighted Assets	Exposure at Default ⁽²⁾			Risk-Weighted Assets	Exposure at Default ⁽²⁾			Risk-Weighted Assets
			On- Balance Sheet	Off- Balance Sheet	Total		On- Balance Sheet	Off- Balance Sheet	Total		On- Balance Sheet	Off- Balance Sheet	Total		On- Balance Sheet	Off- Balance Sheet	Total	
Securitization																		
Investment Grade	AAA to A A- to BBB- ⁽³⁾	7 - 25 35 - 100	8,850 135	14,184 336	23,034 471	2,097 230	10,157 130	12,567 335	22,724 465	2,070 223	10,423 134	14,132 4	24,555 138	2,225 114	9,999 142	13,363 4	23,362 146	2,074 117
Non-Investment Grade	BB+ to BB- Below BB-	150 - 650 1250	12 -	1 -	13 -	54 -	18 -	1 -	19 -	95 -	13 -	- -	13 -	57 -	- -	- -	- -	- -
			8,997	14,521	23,518	2,381	10,305	12,903	23,208	2,388	10,570	14,136	24,706	2,396	10,141	13,367	23,508	2,191
Resecuritization																		
Investment Grade	AAA to A A- to BBB-	20 - 65 100 - 350	- 73	- -	- 73	- 148	- 70	- -	- 70	- 141	- 62	- 2	- 64	- 128	- 61	- -	- 61	- 122
Non-Investment Grade	BB+ to BB- Below BB-	500 - 850 1250	- 73	- -	- 73	- 148	- 70	- -	- 70	- 141	- 15	- 2	- 79	- 193	- 20	- -	- 20	- 248
			73	-	73	148	70	-	70	141	77	2	79	321	81	-	81	370
Total			9,070	14,521	23,591	2,529	10,375	12,903	23,278	2,529	10,647	14,138	24,785	2,717	10,222	13,367	23,589	2,561

(\$MM)			Basel III													
			Q4 2017				Q3 2017				Q2 2017				Q1 2017	
Underlying Asset	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)
	On- Balance Sheet	Off- Balance Sheet	Total		On- Balance Sheet	Off- Balance Sheet	Total		On- Balance Sheet	Off- Balance Sheet	Total		On- Balance Sheet	Off- Balance Sheet	Total	
Residential Mortgages	5	1,608	1,613	-	6	1,608	1,614	-	-	1,275	1,275	-	468	1,275	1,743	-
Commercial Mortgages	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Credit cards/Consumer receivables	724	2,652	3,376	-	642	2,665	3,307	-	703	2,720	3,423	-	614	2,213	2,827	-
Auto loans/Leases	4,032	6,907	10,939	-	5,107	5,915	11,022	-	5,461	6,355	11,816	-	4,180	6,440	10,620	-
Diversified asset-backed securities	115	5	120	-	189	2	191	-	125	38	163	15	54	61	115	20
Business Loans	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	-
Trade receivables	3,681	3,339	7,020	-	3,935	2,703	6,638	-	3,604	3,714	7,318	-	4,176	3,342	7,518	-
Other	513	10	523	-	496	10	506	-	754	36	790	-	730	24	754	-
Total	9,070	14,521	23,591	-	10,375	12,903	23,278	-	10,647	14,138	24,785	15	10,222	13,367	23,589	20

(1) Capital charges related to trading book securitization exposures are based upon the Bank's internal market risk models including its comprehensive risk measure.

(2) Includes banking book on-balance sheet investments in asset backed securities (ABS), collateralized loan obligations (CLOs), collateralized debt obligations (CDOs), and off-balance sheet liquidity lines and credit enhancements to Bank sponsored and non-bank sponsored ABCP conduits.

(3) Included in on-balance sheet exposures effective Q3 2016 are investment grade subordinated notes retained by the Bank, issued by Trillium Credit Card Trust II, and backed by bank originated credit card receivables. OSFI's Securitization Framework is applied.

RISK-WEIGHTED ASSETS FOR SECURITIZATION EXPOSURES - BANKING BOOK ⁽¹⁾ (CONTINUED)


(\$MM)			Basel III															
			Q4 2016				Q3 2016				Q2 2016				Q1 2016			
Risk Category	External Rating (S&P)	Risk-Weight %	Exposure at Default ⁽²⁾			Risk-Weighted Assets	Exposure at Default ⁽²⁾			Risk-Weighted Assets	Exposure at Default ⁽²⁾			Risk-Weighted Assets	Exposure at Default ⁽²⁾			Risk-Weighted Assets
			On-Balance Sheet	Off-Balance Sheet	Total		On-Balance Sheet	Off-Balance Sheet	Total		On-Balance Sheet	Off-Balance Sheet	Total		On-Balance Sheet	Off-Balance Sheet	Total	
Securitization																		
Investment Grade	AAA to A	7 - 25	10,176	14,602	24,778	2,081	10,183	14,600	24,783	2,090	9,268	14,271	23,539	1,980	10,231	12,965	23,196	1,961
	A- to BBB- ⁽³⁾	35 - 100	136	12	148	119	169	10	179	151	69	9	78	75	160	15	175	170
Non-Investment Grade	BB+ to BB-	150 - 650	-	-	-	-	3	-	3	8	3	-	3	8	3	-	3	8
	Below BB-	1250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			10,312	14,614	24,926	2,200	10,355	14,610	24,965	2,249	9,340	14,280	23,620	2,063	10,394	12,980	23,374	2,139
Resecuritization																		
Investment Grade	AAA to A	20 - 65	-	-	-	-	-	38	38	25	-	38	38	25	-	38	38	25
	A- to BBB-	100 - 350	79	-	79	158	69	-	69	151	67	-	67	147	74	-	74	160
Non-Investment Grade	BB+ to BB-	500 - 850	-	-	-	-	18	-	18	119	18	-	18	115	20	-	20	128
	Below BB-	1250	20	-	20	255	20	-	20	249	19	-	19	238	21	-	21	267
			99	-	99	413	107	38	145	544	104	38	142	525	115	38	153	580
Total			10,411	14,614	25,025	2,613	10,462	14,648	25,110	2,793	9,444	14,318	23,762	2,588	10,509	13,018	23,527	2,719

(\$MM)	Basel III															
	Q4 2016				Q3 2016				Q2 2016				Q1 2016			
Underlying Asset	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)	Exposure at Default ⁽²⁾			Exposures at Default (RW=1250%)
	On-Balance Sheet	Off-Balance Sheet	Total		On-Balance Sheet	Off-Balance Sheet	Total		On-Balance Sheet	Off-Balance Sheet	Total		On-Balance Sheet	Off-Balance Sheet	Total	
Residential Mortgages	510	1,275	1,785	-	461	1,275	1,736	-	415	1,275	1,690	-	487	1,275	1,762	-
Commercial Mortgages	-	-	-	-	3	-	3	-	3	-	3	-	3	-	3	-
Credit cards/Consumer receivables	623	2,304	2,927	-	765	2,491	3,256	-	757	2,835	3,592	-	992	2,631	3,623	-
Auto loans/Leases	4,295	6,889	11,184	-	4,242	6,824	11,066	-	3,472	5,931	9,403	-	4,395	3,967	8,362	-
Diversified asset-backed securities	136	34	170	20	169	14	183	20	165	59	224	19	267	71	338	21
Business Loans	-	22	22	-	-	32	32	-	-	46	46	-	-	62	62	-
Trade receivables	3,963	4,070	8,033	-	4,093	3,850	7,943	-	3,633	4,101	7,734	-	3,604	4,934	8,538	-
Other	884	20	904	-	729	162	891	-	999	71	1,070	-	761	78	839	-
Total	10,411	14,614	25,025	20	10,462	14,648	25,110	20	9,444	14,318	23,762	19	10,509	13,018	23,527	21

(1) Capital charges related to trading book securitization exposures are based upon the Bank's internal market risk models including its comprehensive risk measure. Prior periods have been restated to conform with current presentation.

(2) Includes banking book on-balance sheet investments in asset backed securities (ABS), collateralized loan obligations (CLOs), collateralized debt obligations (CDOs), and off-balance sheet liquidity lines and credit enhancements to bank sponsored and non-bank sponsored ABCP conduits.

(3) Included in on-balance sheet exposures effective Q3 2016 are investment grade subordinated notes retained by the Bank, issued by Trillium Credit Card Trust II, and backed by bank originated credit card receivables. OSFI's Securitization Framework is applied.

TOTAL MARKET RISK-WEIGHTED ASSETS


(\$MM)	Q4 2017	Q3 2017	Q2 2017	Q1 2017	Q4 2016
All Bank VaR	1,380	1,398	1,390	1,498	1,306
All Bank stressed VaR	3,745	3,368	3,201	3,660	2,616
Incremental risk charge	2,181	3,383	3,557	4,361	5,086
Comprehensive risk measure ⁽¹⁾	-	264	602	708	963
Standardized approach	533	491	402	416	600
Market risk-weighted assets as at end of Quarter	7,839	8,904	9,152	10,643	10,571

(1) Comprehensive risk measure charges are no longer applicable as of Q4 2017. The Q3 2017 related capital charge for total comprehensive risk measure including securitization exposures was \$21MM broken down as follows: Market Simulation \$3MM, Default & Migration Risk \$18MM.

SUMMARY COMPARISON OF ACCOUNTING BASIS vs LEVERAGE RATIO EXPOSURE MEASURE - TRANSITIONAL BASIS


(\$MM)	Item	Q4 2017	Q3 2017
1	Total consolidated assets as per published financial statements	915,273	906,332
2	Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	(941)	(631)
3	Adjustment for fiduciary assets recognized on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure	-	-
4	Adjustments for derivative financial instruments	8,953	1,743
5	Adjustment for securities financing transactions (i.e., repo assets and similar secured lending)	11,639	14,538
6	Adjustment for off balance-sheet items (i.e., credit equivalent amounts of off-balance sheet exposures)	130,578	122,937
7	Other adjustments	(11,574)	(11,419)
8	Leverage Ratio Exposure (transitional basis)	1,053,928	1,033,500

LEVERAGE RATIO FRAMEWORK



(\$MM)	Item	Q4 2017	Q3 2017
	On-balance sheet exposures ⁽¹⁾		
1	On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral)	783,649	782,545
2	(Asset amounts deducted in determining Basel III transitional Tier 1 capital)	(11,574)	(11,419)
3	Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 and 2)	772,075	771,126
	Derivative exposures		
4	Replacement cost associated with all derivative transactions (i.e. net of eligible cash variation margin)	5,339	6,219
5	Add-on amounts for PFE associated with all derivative transactions	37,975	32,454
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)	(2,360)	(3,305)
8	(Exempted CCP-leg of client cleared trade exposures)	-	-
9	Adjusted effective notional amount of written credit derivatives	8,978	9,638
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(5,614)	(6,007)
11	Total derivative exposures (sum of lines 4 to 10)	44,318	38,999
	Securities financing transaction exposures		
12	Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	106,720	97,281
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(11,402)	(11,380)
14	Counterparty credit risk (CCR) exposure for SFT assets	11,639	14,537
15	Agent transaction exposures	-	-
16	Total securities financing transaction exposures (sum of lines 12 to 15)	106,957	100,438
	Other off-balance sheet exposures		
17	Off-balance sheet exposure at gross notional amount	399,114	381,877
18	(Adjustments for conversion to credit equivalent amounts)	(268,536)	(258,940)
19	Off-balance sheet items (sum of lines 17 and 18)	130,578	122,937
	Capital and Total Exposures - Transitional Basis		
20	Tier 1 capital	50,623	47,076
21	Total Exposures (sum of lines 3, 11, 16 and 19)	1,053,928	1,033,500
	Leverage Ratios - Transitional Basis		
22	Basel III leverage ratio	4.8%	4.6%
	All-in basis (Required by OSFI)		
23	Tier 1 capital – All-in basis	49,473	45,913
24	(Regulatory adjustments)	(12,611)	(12,476)
25	Total Exposures (sum of lines 21 and 24, less the amount reported in line 2) – All-in basis	1,052,891	1,032,443
26	Leverage ratio – All-in basis	4.7%	4.4%

(1) On-balance sheet items excludes securities purchased under resale agreements and securities borrowed (\$95,319MM), derivative financial instruments (\$35,364MM), assets outside the regulatory scope of consolidation (\$941MM).

LEVERAGE RATIO FRAMEWORK - DESCRIPTION OF LINE ITEMS



Row Number	Explanation
1	On-balance sheet assets (excluding derivatives, Securities Financing Transactions (SFTs) and grandfathered securitization exposures but including collateral) according to paragraphs 14 and 17 to 20 of the Leverage Requirements Guideline.
2	Deductions from Basel III Tier 1 capital determined by paragraphs 4, 15 and 16 of the Leverage Requirements Guideline and excluded from the leverage ratio exposure measure, reported as negative amounts. ⁽¹⁾
3	Sum of lines 1 and 2.
4	Replacement cost (RC) associated with all derivative transactions, (including exposure resulting from transactions described in paragraph 42 of the Leverage Requirements Guideline), net of cash variation margin received and with, where applicable, bilateral netting according to paragraphs 22 to 35 and 40 of the Leverage Requirements Guideline.
5	Add-on amount for all derivatives exposure according to paragraphs 22 to 35 of the Leverage Requirements Guideline.
6	Grossed-up amount for collateral provided according to paragraph 38 of the Leverage Requirements Guideline.
7	Deductions of receivables assets from cash variation margin provided in derivative transactions according to paragraph 40 of the Leverage Requirements Guideline, reported as negative amounts.
8	Exempted trade exposures associated with the CCP-leg of derivative transactions resulting from client cleared transactions according to paragraph 41 of the Leverage Requirements Guideline, reported as negative amounts.
9	Adjusted effective notional amount (i.e. the effective notional amount reduced by any negative change in fair value) for written credit derivatives according to paragraphs 45 to 47 of the Leverage Requirements Guideline.
10	Adjusted effective notional offsets of written credit derivatives according to paragraphs 45 to 47 of the Leverage Requirements Guideline and deducted add-on amounts relating to written credit derivatives according to paragraph 48 of the Leverage Requirements Guideline, reported as negative amounts.
11	Sum of lines 4 to 10.
12	Gross SFT assets recognized for accounting purposes with no recognition of any netting other than novation with QCCPs as set out in footnote 30 of the Leverage Requirements Guideline, removing certain securities received as determined by paragraph 50 (i) of the Leverage Requirements Guideline and adjusting for any sales accounting transactions as determined by paragraph 53 of the Leverage Requirements Guideline.
13	Cash payables and cash receivables of Gross SFT assets netted according to paragraph 50 (i) of the Leverage Requirements Guideline, reported as negative amounts.
14	Measure of counterparty credit risk for SFTs as determined by paragraph 50 (ii) of the Leverage Requirements Guideline.
15	Agent transaction exposure amount determined according to paragraphs 54 to 56 of the Leverage Requirements Guideline.
16	Sum of lines 12 to 15.
17	Total off-balance sheet exposure amounts on a gross notional basis, before any adjustment for credit conversion factors according to paragraphs 57 to 65 of the Leverage Requirements Guideline.
18	Reduction in gross amount of off-balance sheet exposures due to the application of credit conversion factors in paragraphs 57 to 65 of the Leverage Requirements Guideline.
19	Sum of lines 17 and 18.
20	Tier 1 capital as determined by paragraph 10 of the Leverage Requirements Guideline. ⁽¹⁾
21	Sum of lines 3, 11, 16 and 19.
22	Basel III leverage ratio according to paragraph 5 of the Leverage Requirements Guideline. ⁽¹⁾ (Line 20/21)
23	Tier 1 capital measured on an all-in basis as specified in Chapter 2 of OSFI's Capital Adequacy Requirements Guideline.
24	Regulatory adjustments to Tier 1 capital measured on an all-in basis as specified in Chapter 2 of OSFI's Capital Adequacy Requirements Guideline, reported as negative amounts.
25	Sum of lines 21 and 24, less the amount reported in line 2.
26	Leverage ratio measured on all-in basis; the ratio of the Tier 1 capital amount reported in line 23 to the Total Exposure amount reported in line 25.

(1) Measured on transitional basis.

GLOSSARY



Credit Risk Parameters	
Exposure at Default (EAD)	Generally represents the expected gross exposures at default and includes outstanding amounts for on-balance sheet exposures and loan equivalent amounts for off-balance sheet exposures.
Probability of Default (PD)	Measures the likelihood that a borrower will default within a 1-year time horizon, expressed as a percentage.
Loss Given Default (LGD)	Measures the severity of loss on a facility in the event of a borrower's default, expressed as a percentage of exposure at default.
Exposure Types	
Non-retail	
Corporate	Debt obligation of a corporation, partnership, or proprietorship.
Bank	Debt obligation of a bank or bank equivalent (including certain public sector entities (PSEs) treated as Bank equivalent exposures).
Sovereign	Debt obligation of a sovereign, central bank, certain Multi Development Banks (MDBs) and certain PSEs treated as Sovereign.
Securitization	On-balance sheet investments in asset backed securities (ABS), mortgage backed securities (MBS), collateralized loan obligations (CLOs) and collateralized debt obligations (CDOs). Off-balance sheet liquidity lines including credit enhancements to Bank's sponsored ABCP conduits and liquidity lines to non-bank sponsored ABCP conduits.
Retail	
Real Estate Secured	
Residential Mortgages	Loans to individuals against residential property (four units or less).
Secured Lines Of Credit	Revolving personal lines of credit secured by first charge on residential real estate.
Qualifying Revolving Retail Exposures (QRRE)	Credit cards and unsecured line of credit for individuals.
Other Retail	All other personal loans.
Exposure Sub-types	
Drawn	Outstanding amounts for loans, leases, acceptances, deposits with banks and available-for-sale debt securities.
Undrawn	Unutilized portion of an authorized credit line.
Repo-Style Transactions	Reverse repurchase agreements (reverse repos) and repurchase agreements (repos), securities lending and borrowing.
Over-the Counter (OTC) Derivatives	Over-the-counter derivatives contracts.
Exchange-traded derivatives (ETD)	Derivative contracts (e.g. futures contracts and options) that are transacted on an organized futures exchange. These include Futures contracts (both Long and Short positions), Purchased Options and Written Options.
Other Off- Balance Sheet	Direct credit substitutes such as standby letters of credits and guarantees, trade letters of credits, and performance letters of credits and guarantees.
Qualifying central counterparty (QCCP)	A qualifying central counterparty (QCCP) is licensed as a central counterparty and is also considered as "qualifying" when it is compliant with CPSS-IOSCO standards and is able to assist clearing member banks in properly capitalizing for CCP exposures by either undertaking the calculations and/or making available sufficient information to its clearing members, or others, to enable the completion of capital calculations.
Non-qualifying central counterparties (NQCCP)	Defined as those central counterparties which are not compliant with CPSS-IOSCO standards as outlined under qualifying CCP's. The exposures to NQCCP will follow standardized treatment under the Basel accord.
Other	
Asset Value Correlation Multiplier (AVC)	Basel III has increased the risk-weights on exposures to certain Financial Institutions (FIs) relative to the non-financial corporate sector by introducing an Asset Value Correlation multiplier (AVC). The correlation factor in the risk-weight formula is multiplied by this AVC factor of 1.25 for all exposures to regulated FIs whose total assets are greater than or equal to US \$100 billion and all exposures to unregulated FIs.
Basel I Capital Floor	A capital floor based on the Basel I approach is calculated by banks using advanced approaches for credit risk or operational risk, as prescribed by OSFI in CAR. If applicable, this floor is applied at aggregate level.
Specific Wrong-Way Risk (WWR)	Specific Wrong-Way Risk arises when the exposure to a particular counterparty is positively correlated with the probability of default of the counterparty due to the nature of the transactions with the counterparty.
Credit Valuation Adjustment (CVA)	Credit Valuation Adjustment (CVA) is the difference between the risk free value of a portfolio and the true value of that portfolio, accounting for the possible default of a counterparty. CVA adjustment aims to identify the impact of Counterparty Risk.
Advanced Measurement Approaches (AMA)	Under the AMA, the regulatory capital requirement for Operational Risk will equal the risk measure generated by the bank's internal operational risk measurement system using the quantitative and qualitative criteria. AMA utilizes risk drivers for capital movements (such as internal loss experience, business environment and internal control factors, external loss experience, and scenarios).