

# SUPPLEMENTARY REGULATORY CAPITAL DISCLOSURE



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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.

**REGULATORY CAPITAL HIGHLIGHTS**


(\$MM)	Basel III - IFRS									
	Q2 2017		Q1 2017		Q4 2016		Q3 2016		Q2 2016	
	Transitional Approach	All-in Approach <sup>(1)</sup>	Transitional Approach	All-in Approach <sup>(1)</sup>	Transitional Approach	All-in Approach <sup>(1)</sup>	Transitional Approach	All-in Approach <sup>(1)</sup>	Transitional Approach	All-in Approach <sup>(1)</sup>
<b>Common Equity Tier 1 capital</b>	45,431	42,474	43,312	40,540	45,816	39,989	43,696	37,690	41,801	35,911
<b>Tier 1 capital</b>	48,357	47,048	46,415	45,247	47,668	45,066	45,041	42,264	43,425	40,759
<b>Total capital</b>	56,554	55,310	54,505	53,400	55,824	53,330	53,091	50,471	51,327	48,839
<b>Risk-weighted Assets <sup>(2)</sup></b>										
CET1 Capital Risk-weighted Assets	381,977	374,876	362,326	359,611	368,215	364,048	362,358	357,657	361,678	356,866
Tier 1 Capital Risk-weighted Assets	381,977	375,148	362,326	359,942	368,215	364,504	362,358	358,177	361,678	357,389
Total Capital Risk-weighted Assets	381,977	375,366	362,326	360,208	368,215	364,894	362,358	358,622	361,678	357,837
<b>Capital Ratios (%)</b>										
Common Equity Tier 1 (as a percentage of risk-weighted assets)	11.9	11.3	12.0	11.3	12.4	11.0	12.1	10.5	11.6	10.1
Tier 1 (as a percentage of risk-weighted assets)	12.7	12.5	12.8	12.6	12.9	12.4	12.4	11.8	12.0	11.4
Total capital (as a percentage of risk-weighted assets)	14.8	14.7	15.0	14.8	15.2	14.6	14.7	14.1	14.2	13.6
<b>Leverage:</b>										
Leverage Exposures	1,063,119	1,061,939	1,006,799	1,005,757	1,013,346	1,010,987	1,016,572	1,014,048	1,007,540	1,005,103
Leverage Ratio (%)	4.5	4.4	4.6	4.5	4.7	4.5	4.4	4.2	4.3	4.1
<b>OSFI Target: All-in Basis (%)</b>										
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
<b>Capital instruments subject to phase-out arrangements</b>										
Current cap on Additional Tier 1 (AT1) instruments subject to phase-out arrangements (%)	50	50	50	50	60	60	60	60	60	60
Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	-	-	32	32	-	-	-	-	69	69
Current cap on Tier 2 (T2) instruments subject to phase-out arrangements (%)	50	50	50	50	60	60	60	60	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.

# REGULATORY CAPITAL - DEFINITION OF CAPITAL COMPONENTS



(\$MM)

	Cross-Reference <sup>(1)</sup>	All-in Q2 2017	All-in Q1 2017	
<b>Common Equity Tier 1 Capital: Instruments and Reserves</b>				
1	Directly issued qualifying common share capital plus related stock surplus	u+y	15,740	15,764
2	Retained Earnings	v	36,234	35,653
3	Accumulated Other Comprehensive Income	w	3,141	1,589
5	Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)	bb	625	597
6	Common Equity Tier 1 capital before regulatory adjustments		55,740	53,603
<b>Common Equity Tier 1 Capital: Regulatory Adjustments</b>				
8	Goodwill (net of related tax liability)	g	(7,969)	(7,789)
9	Intangibles other than mortgage-servicing rights (net of related tax liability)	h-q+hi-r	(3,747)	(3,694)
10	Deferred tax assets that rely on future profitability excluding those arising from temporary differences (net of related tax liability)	k	(444)	(467)
11	Cash flow hedge reserve	x	(87)	(146)
12	Shortfall of allowances to expected losses	ee	(13)	(158)
14	Gains and losses due to changes in own credit risk on fair value liabilities	p	(275)	(271)
15	Defined-benefit pension fund net assets (net of related tax liability)	l-s	(134)	(122)
16	Investments in own shares (if not already netted off paid-in capital on reported balance sheet)	a	(10)	(9)
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	(506)	(403)
22	Amount exceeding the 15% threshold		(78)	-
23	of which: significant investments in the common stock of financials	f	(52)	-
25	of which: deferred tax assets arising from temporary differences	j	(26)	-
26	Other deductions from CET1 as determined by OSFI	o	(3)	(4)
28	Total regulatory adjustments to Common Equity Tier 1		(13,266)	(13,063)
29	<b>Common Equity Tier 1 Capital (CET1)</b>		<b>42,474</b>	<b>40,540</b>
<b>Additional Tier 1 Capital: Instruments</b>				
30	Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	z	1,350	1,350
31	of which: classified as equity under applicable accounting standards		1,350	1,350
33	Directly issued capital instruments subject to phase-out from Additional Tier 1	aa <sup>(2)</sup>	3,069	3,267
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	155	90
36	<b>Additional Tier 1 capital before regulatory adjustments</b>		<b>4,574</b>	<b>4,707</b>
<b>Additional Tier 1 Capital: Regulatory Adjustments</b>				
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	<b>Total regulatory adjustments to Additional Tier 1 capital</b>		<b>-</b>	<b>-</b>
44	<b>Additional Tier 1 Capital (AT1)</b>		<b>4,574</b>	<b>4,707</b>
45	<b>Tier 1 Capital (T1=CET1 + AT1)</b>		<b>47,048</b>	<b>45,247</b>
<b>Tier 2 Capital: Instruments and Provisions</b>				
46	Directly issued qualifying Tier 2 instruments	m	3,711	3,620
47	Directly issued capital instruments subject to phase-out from Tier 2		3,910	3,887
48	Tier 2 instruments issued by subsidiaries and held by third parties (amount allowed in group Tier 2)	dd	90	112
50	Eligible Collective Allowance and Excess of allowance over expected loss	c+d	551	534
51	Tier 2 capital before regulatory adjustments		8,262	8,153

	Cross-Reference <sup>(1)</sup>	All-in Q2 2017	All-in Q1 2017	
<b>Tier 2 Capital: Regulatory Adjustments</b>				
57	Total regulatory adjustments to Tier 2 capital		-	-
58	<b>Tier 2 Capital (T2)</b>		<b>8,262</b>	<b>8,153</b>
59	<b>Total Capital (TC = T1 + T2)</b>		<b>55,310</b>	<b>53,400</b>
60	<b>Total Risk-weighted Assets</b>		<b>376,401</b>	<b>361,468</b>
60a	<b>Common Equity Tier 1 (CET1) Capital RWA</b>		<b>374,876</b>	<b>359,611</b>
60b	<b>Tier 1 Capital RWA</b>		<b>375,148</b>	<b>359,942</b>
60c	<b>Total Capital RWA</b>		<b>375,366</b>	<b>360,208</b>
<b>Capital Ratios and Buffers</b>				
61	<b>Common Equity Tier 1 (as a percentage of risk-weighted assets)</b>		<b>11.3</b>	<b>11.3</b>
62	<b>Tier 1 (as a percentage of risk-weighted assets)</b>		<b>12.5</b>	<b>12.6</b>
63	<b>Total capital (as a percentage of risk-weighted assets)</b>		<b>14.7</b>	<b>14.8</b>
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)		11.3	11.3
<b>OSFI all-in target (minimum + capital conservation buffer + DSIB surcharge (if applicable))</b>				
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%
<b>Amounts below the thresholds for the deduction (before risk-weighting)</b>				
72	Non-significant investments in the capital of other financial institutions		1,339	1,669
73	Significant investments in the common stock of financial institutions		4,254	4,094
75	Deferred tax assets arising from temporary differences (net of related tax liability)		2,118	1,962
<b>Applicable caps on the inclusion of allowances in Tier 2</b>				
76	Allowances eligible for inclusion in Tier 2 in respect to exposures subject to standardized approach (prior to application of cap)		551	534
77	Cap on inclusion of allowances in Tier 2 under standardized approach		1,445	1,331
78	Allowances eligible for inclusion in Tier 2 in respect to exposures subject to internal ratings-based approach (prior to application of cap)		-	-
79	Cap for inclusion of allowances in Tier 2 under internal ratings-based approach		1,272	1,231
<b>Capital instruments subject to phase-out arrangements (only applicable between Jan 1 2018 and Jan 1 2022)</b>				
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)		-	32
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 <sup>(1)</sup>	Under regulatory scope of consolidation <sup>(2)</sup>
		Q2 2017	Q2 2017
<b>Assets</b>			
Cash and deposits with financial institutions		50,877	50,877
Precious metals		8,534	8,534
<b>Trading Assets</b>			
Securities		90,505	90,501
- Investment in own shares	a		10
- Other trading securities			90,491
Loans		18,895	18,895
Other		2,431	2,431
		111,831	111,827
<b>Financial assets designated at fair value through profit or loss</b>		251	251
Securities purchased under resale agreements and securities borrowed		101,643	101,643
Derivative financial instruments		37,641	37,641
Investment securities		69,792	69,089
- Significant investments in Additional Tier 1 capital of other financial institutions reflected in regulatory capital	b		-
- Other securities <sup>(3)</sup>			69,089
<b>Loans</b>			
Residential mortgages		228,313	228,150
Personal and credit cards <sup>(3)</sup>		101,291	100,081
Business and government <sup>(3)</sup>		171,242	171,007
		500,846	499,238
Allowance for credit losses		4,591	4,591
- Collective Allowance reflected in Tier 2 capital	c		551
- Shortfall of allowances to expected loss	ee		(13)
- Excess of allowances to expected loss	d		-
- Allowances not reflected in regulatory capital			4,053
<b>Other</b>			
Customers' liability under acceptances		10,378	10,378
Property and equipment		2,355	2,350
Investments in associates		4,523	4,867
- Significant Investments in other financial institutions including deconsolidated subsidiaries exceeding 10% regulatory thresholds	e		506
- Significant Investments in other financial institutions including deconsolidated subsidiaries exceeding 15% regulatory thresholds	f		52
- Significant Investments in other financial institutions including deconsolidated subsidiaries within regulatory thresholds			4,309
Goodwill & other intangible assets		12,285	12,781
- Goodwill	g		7,473
- Imputed goodwill for significant investments	g		496
- Intangibles (excl. computer software)	h		2,993
- Computer software intangibles	i		1,819
Deferred tax assets		1,933	1,932
- Deferred tax assets arising from temporary differences exceeding the regulatory threshold	j		26
- Deferred tax assets that rely on future profitability	k		444
- Deferred tax assets not deducted from regulatory capital			1,462
Other assets		13,348	13,213
- Defined pension fund assets	l		200
- Other assets			13,013
		44,822	45,521
<b>Total assets</b>		921,646	920,030

(\$MM)	Cross Reference to Page 4 Definition of Capital Components	Consolidated Statement of Financial Position <sup>(1)</sup>	Under regulatory scope of consolidation <sup>(2)</sup>
		Q2 2017	Q2 2017
<b>Liabilities</b>			
<b>Deposits</b>			
Personal		202,004	202,004
Business and government		379,015	379,015
Financial institutions		47,190	47,190
		628,209	628,209
Financial instruments designated at fair value through profit or loss		2,545	2,545
<b>Other</b>			
Acceptances		10,378	10,378
Obligations related to securities sold short		30,078	30,078
Derivative financial instruments		40,336	40,336
Obligations related to securities sold under repurchase agreements and securities lent		95,664	95,664
Subordinated debentures		7,621	7,621
- Regulatory capital amortization of maturing debentures			
- Subordinated debentures used for regulatory capital			
- of which: are included in Tier 2 capital			3,711
- of which: are subject to phase-out included in Tier 2 capital (50%)	m		3,910
- of which: are subject to phase-out not included in Tier 2 capital			
Other liabilities		47,016	45,400
- Liquidity reserves	o		3
- Gains/losses due to changes in own credit risk including DVA on derivatives	p		275
- Deferred tax liabilities			648
- Intangible assets (excl. computer software and mortgage servicing rights)	q		830
- Intangible assets - computer software	r		235
- Defined benefit pension fund assets	s		66
- Other deferred tax liabilities			(483)
- Other liabilities			44,474
		231,093	229,477
<b>Total liabilities</b>		861,847	860,231
<b>Equity</b>			
Common equity			
- Common shares	u	15,614	15,614
- Retained earnings	v	36,234	36,234
- Accumulated other comprehensive income (loss)	w	3,141	3,141
- Cash flow hedging reserve	x		87
- Other			3,054
- Other reserves	y	126	126
Total common equity		55,115	55,115
Preferred shares		3,019	3,019
- of which: are qualifying Tier 1 capital	z		1,350
- of which: are subject to phase out and included in Tier 1 capital (50%)	aa		1,669
- of which: are subject to phase out and not included into Tier 1 capital			-
Total equity attributable to equity holders of the bank		58,134	58,134
Non-controlling interests			
Non-controlling interest in subsidiaries		1,665	1,665
- portion allowed for inclusion into CET1	bb		625
- portion allowed for inclusion into Tier 1 capital	cc		155
- portion allowed for inclusion into Tier 2 capital	dd		90
- portion not allowed for regulatory capital			795
<b>Total equity</b>		59,799	59,799
<b>Total liabilities and equity</b>		921,646	920,030

(1) Consolidated Statement of Financial Position as reported in the 2017 Quarterly Report - Second Quarter results (page 35).

(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: \$182MM, equity: \$330MM), Scotia Life Insurance Company (assets: \$88MM, equity: \$178MM), Scotia Jamaica Life Insurance Co. Ltd (assets: \$583MM, equity: \$149MM), Scotia Life Trinidad and Tobago Ltd (assets: \$345MM, equity: \$88MM) and Scotia Seguros (assets: \$80MM).

(3) Effective Q3 2016, securitized credit card exposures are excluded from the regulatory scope of consolidation under OSFI'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 <sup>(1)</sup>		
	Non-retail	Retail	Securitization	Repo-style Transactions	OTC Derivatives	Equity	Also subject to Credit Risk			
As at April 30, 2017 (\$MM)										
Cash and deposits with financial institutions	48,430	-	-	-	-	-	-	2,447	50,877	
Precious metals	-	-	-	-	-	-	8,534	-	8,534	
Trading assets:										
Securities	-	-	-	-	-	-	90,505	-	90,505	
Loans	11,154	-	-	-	-	-	11,154	7,741	18,895	
Other	-	-	-	-	-	-	2,431	-	2,431	
Financial assets designated at fair value through profit or loss	16	-	-	-	-	-	235	-	251	
Securities purchased under resale agreements and securities borrowed	-	-	-	101,643	-	-	-	-	101,643	
Derivative financial instruments	-	-	-	-	37,641	-	33,792	-	37,641	
Investment securities	65,962	-	546	-	-	2,333	-	951	69,792	
Loans:										
Residential mortgages <sup>(2)</sup>	100,862	127,288	-	-	-	-	-	163	228,313	
Personal and credit cards	-	97,780	2,401	-	-	-	-	1,110	101,291	
Business & government	160,844	2,681	7,699	-	-	-	-	18	171,242	
Allowances for credit losses <sup>(3)</sup>	(804)	-	-	-	-	-	-	(3,787)	(4,591)	
Customers' liability under acceptances	10,378	-	-	-	-	-	-	-	10,378	
Property and equipment	-	-	-	-	-	-	-	2,355	2,355	
Investments in associates	-	-	-	-	-	-	-	4,523	4,523	
Goodwill and other intangible assets	-	-	-	-	-	-	-	12,285	12,285	
Other (including Deferred tax assets)	1,124	488	-	-	-	-	-	13,669	15,281	
<b>Total</b>	<b>397,966</b>	<b>228,237</b>	<b>10,646</b>	<b>101,643</b>	<b>37,641</b>	<b>2,333</b>	<b>44,946</b>	<b>109,446</b>	<b>33,734</b>	<b>921,646</b>

	Credit Risk Exposures						Other Exposures		Total	
	Drawn		Other Exposures				Market Risk Exposures	All Other <sup>(1)</sup>		
	Non-retail	Retail	Securitization	Repo-style Transactions	OTC Derivatives	Equity	Also subject to Credit Risk			
As at January 31, 2017 (\$MM)										
Cash and deposits with financial institutions	45,968	-	-	-	-	-	-	2,461	48,429	
Precious metals	-	-	-	-	-	-	7,198	-	7,198	
Trading assets:										
Securities	-	-	-	-	-	-	88,360	-	88,360	
Loans	8,664	-	-	-	-	-	8,664	8,000	16,664	
Other	-	-	-	-	-	-	1,494	-	1,494	
Financial assets designated at fair value through profit or loss	15	-	-	-	-	-	221	-	236	
Securities purchased under resale agreements and securities borrowed	-	-	-	97,327	-	-	-	-	97,327	
Derivative financial instruments	-	-	-	-	34,963	-	31,782	-	34,963	
Investment securities	69,056	-	541	-	-	2,386	-	738	72,721	
Loans:										
Residential mortgages <sup>(2)</sup>	103,538	120,395	-	-	-	-	-	152	224,085	
Personal and credit cards	-	94,640	2,460	-	-	-	-	1,110	98,210	
Business & government	149,754	2,582	7,221	-	-	-	-	9	159,566	
Allowances for credit losses <sup>(3)</sup>	(786)	-	-	-	-	-	-	(3,722)	(4,508)	
Customers' liability under acceptances	11,185	-	-	-	-	-	-	-	11,185	
Property and equipment	-	-	-	-	-	-	-	2,275	2,275	
Investments in associates	-	-	-	-	-	-	-	4,262	4,262	
Goodwill and other intangible assets	-	-	-	-	-	-	-	12,056	12,056	
Other (including Deferred tax assets)	925	484	-	-	-	-	-	11,060	12,469	
<b>Total</b>	<b>388,319</b>	<b>218,101</b>	<b>10,222</b>	<b>97,327</b>	<b>34,963</b>	<b>2,386</b>	<b>40,446</b>	<b>105,273</b>	<b>30,401</b>	<b>886,992</b>

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

(2) Includes \$98.4 billion (Q1, 2017 - \$101.0 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									
	Q2 2017	Q1 2017	Q4 2016	Q3 2016	Q2 2016	Q1 2016	Q4 2015	Q3 2015	Q2 2015	Q1 2015
<b>(\$MM)</b>										
<b>Common Equity Tier 1 (CET1) capital</b>										
<b>Opening amount</b>	<b>40,540</b>	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	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	(947)	(934)	(924)	(904)	(899)	(871)	(870)	(851)	(853)	(832)
Shares issued	93	138	185	114	22	42	22	33	16	26
Shared repurchased/redeemed	(572)	(138)	-	-	(15)	(65)	(311)	(170)	(29)	(445)
Removal of own credit spread (net of tax)	(4)	40	5	(8)	143	(142)	(26)	(59)	37	(110)
Movements in other comprehensive income, excluding cash flow hedges	1,611	(534)	894	627	(2,835)	842	(330)	1,376	(1,180)	1,586
Currency translation differences	1,835	(1,151)	802	991	(2,826)	1,455	(276)	1,400	(1,450)	2,259
Available-for-sale investments	103	(49)	(49)	33	13	(177)	(306)	(87)	(33)	(43)
Employee Benefits	(338)	667	133	(386)	(25)	(443)	246	80	303	(643)
Other	11	(1)	8	(11)	3	7	6	(17)	-	13
Goodwill and other intangible assets (deduction, net of related tax liability)	(233)	106	(123)	(166)	(121)	(161)	(27)	(462)	157	(208)
Other, including regulatory adjustments and transitional arrangements	(11)	(75)	323	219	448	(723)	647	(335)	456	(1,049)
Deferred tax assets that rely on future probability	23	17	3	11	41	-	45	18	13	5
Threshold deductions	(181)	32	373	203	308	(655)	552	(288)	421	(1,044)
Other	147	(124)	(53)	5	99	(68)	50	(65)	22	(10)
<b>Closing Amount</b>	<b>42,474</b>	<b>40,540</b>	<b>39,989</b>	<b>37,690</b>	<b>35,911</b>	<b>37,645</b>	<b>36,965</b>	<b>36,077</b>	<b>34,750</b>	<b>34,389</b>
<b>Other Additional Tier 1 capital</b>										
<b>Opening amount</b>	<b>4,707</b>	5,077	4,574	4,848	4,338	4,401	4,397	4,327	4,328	4,331
New Additional Tier 1 eligible capital issues	-	-	500	-	500	350	-	-	-	-
Redeemed capital	(230)	(345)	-	(345)	(345)	-	-	-	-	-
Other, capital including regulatory adjustments and transitional arrangements	97	(25)	3	71	355	(413)	4	70	(1)	(3)
<b>Closing Amount</b>	<b>4,574</b>	<b>4,707</b>	<b>5,077</b>	<b>4,574</b>	<b>4,848</b>	<b>4,338</b>	<b>4,401</b>	<b>4,397</b>	<b>4,327</b>	<b>4,328</b>
<b>Total Tier 1 capital</b>	<b>47,048</b>	<b>45,247</b>	<b>45,066</b>	<b>42,264</b>	<b>40,759</b>	<b>41,983</b>	<b>41,366</b>	<b>40,474</b>	<b>39,077</b>	<b>38,717</b>
<b>Tier 2 capital</b>										
<b>Opening amount</b>	<b>8,153</b>	8,264	8,207	8,080	8,430	6,864	6,837	6,786	5,637	5,519
New Tier 2 eligible capital issues	-	-	-	-	-	2,537	-	-	1,250	-
Redeemed capital	-	-	-	(16)	(19)	(1,000)	-	-	-	-
Amortization adjustments	-	-	-	-	-	-	-	-	-	-
Other, including regulatory adjustments and transitional adjustments	109	(111)	57	143	(331)	29	27	51	(101)	118
<b>Closing Amount</b>	<b>8,262</b>	<b>8,153</b>	<b>8,264</b>	<b>8,207</b>	<b>8,080</b>	<b>8,430</b>	<b>6,864</b>	<b>6,837</b>	<b>6,786</b>	<b>5,637</b>
<b>Total regulatory capital</b>	<b>55,310</b>	<b>53,400</b>	<b>53,330</b>	<b>50,471</b>	<b>48,839</b>	<b>50,413</b>	<b>48,230</b>	<b>47,311</b>	<b>45,863</b>	<b>44,354</b>



# RISK-WEIGHTED ASSETS AND CAPITAL RATIOS



(\$B)	Basel III - All-in IFRS									
	Q2 2017	Q1 2017	Q4 2016	Q3 2016	Q2 2016	Q1 2016	Q4 2015	Q3 2015	Q2 2015	Q1 2015
<b>RISK-WEIGHTED ASSETS:<sup>(1)</sup></b>										
<b>On-Balance Sheet Assets</b>										
Cash Resources	4.3	3.5	3.7	3.9	4.1	3.7	3.3	3.3	3.0	3.2
Securities	10.2	9.4	9.6	10.7	10.3	11.2	9.5	10.3	11.4	12.4
Residential Mortgages	27.9	25.7	25.0	23.2	22.5	25.9	25.0	24.9	22.2	21.9
Loans										
- Personal Loans	51.9	50.5	52.0	49.5	49.0	48.7	46.2	45.2	43.4	43.9
- Non-Personal Loans	121.0	114.6	118.8	118.6	120.4	125.1	117.4	111.7	104.8	106.9
All Other	29.8	29.2	28.8	27.6	27.0	29.0	28.9	28.7	26.6	27.2
	<b>245.1</b>	<b>232.9</b>	<b>237.9</b>	<b>233.5</b>	<b>233.2</b>	<b>243.6</b>	<b>230.3</b>	<b>224.1</b>	<b>211.4</b>	<b>215.5</b>
<b>Off-Balance Sheet Assets</b>										
Indirect Credit Instruments	58.1	53.1	54.1	51.0	48.5	49.2	49.2	46.8	43.2	43.4
Derivative Instruments	12.0	13.4	12.1	12.9	13.2	20.0	17.9	18.2	16.8	19.7
	<b>70.1</b>	<b>66.5</b>	<b>66.2</b>	<b>63.9</b>	<b>61.7</b>	<b>69.2</b>	<b>67.1</b>	<b>65.0</b>	<b>60.0</b>	<b>63.1</b>
<b>Total Credit Risk before AIRB scaling factor</b>	<b>315.2</b>	<b>299.4</b>	<b>304.1</b>	<b>297.4</b>	<b>294.9</b>	<b>312.8</b>	<b>297.4</b>	<b>289.1</b>	<b>271.4</b>	<b>278.6</b>
AIRB Scaling factor <sup>(2)</sup>	10.9	10.4	10.7	10.5	10.6	11.1	10.6	10.2	9.6	9.8
<b>Total Credit Risk after AIRB scaling factor</b>	<b>326.1</b>	<b>309.8</b>	<b>314.8</b>	<b>307.9</b>	<b>305.5</b>	<b>323.9</b>	<b>308.0</b>	<b>299.3</b>	<b>281.0</b>	<b>288.4</b>
Market Risk - Risk Assets Equivalent	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	39.6	39.2	38.6	38.1	37.5	36.5	35.6	35.2	34.2	33.7
<b>CET1 Risk-weighted Assets<sup>(3)</sup></b>	<b>374.9</b>	<b>359.6</b>	<b>364.0</b>	<b>357.7</b>	<b>356.9</b>	<b>374.5</b>	<b>358.0</b>	<b>348.0</b>	<b>328.7</b>	<b>335.2</b>
<b>Tier 1 Risk-weighted Assets<sup>(3)</sup></b>	<b>375.1</b>	<b>359.9</b>	<b>364.5</b>	<b>358.2</b>	<b>357.4</b>	<b>375.4</b>	<b>358.8</b>	<b>348.8</b>	<b>329.4</b>	<b>336.1</b>
<b>Total Risk-weighted Assets<sup>(3)</sup></b>	<b>375.4</b>	<b>360.2</b>	<b>364.9</b>	<b>358.6</b>	<b>357.8</b>	<b>376.1</b>	<b>359.5</b>	<b>349.5</b>	<b>330.1</b>	<b>336.9</b>
<b>REGULATORY CAPITAL RATIOS (%):</b>										
Common Equity Tier 1	11.3	11.3	11.0	10.5	10.1	10.1	10.3	10.4	10.6	10.3
Tier 1	12.5	12.6	12.4	11.8	11.4	11.2	11.5	11.6	11.9	11.5
Total	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) As per OSFI guideline, effective Q1 2014, Credit Valuation Adjustment RWA on derivatives was phased-in. 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.

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


Credit Risk Risk-weighted Assets (RWA) (\$MM)	Q2 2017		Q1 2017	
	Credit Risk <sup>(1)</sup>	Of which Counterparty Credit Risk	Credit Risk <sup>(1)</sup>	Of which Counterparty Credit Risk
CET1 Credit risk-weighted assets as at beginning of Quarter	309,719	18,379	314,822	16,432
Book size <sup>(2)(3)</sup>	6,150	(1,247)	(243)	1,991
Book quality <sup>(4)</sup>	(960)	(620)	1,510	(120)
Model updates <sup>(5)</sup>	-	-	(589)	-
Methodology and policy <sup>(6)</sup>	-	-	1,062	521
Acquisitions and disposals	-	-	-	-
Foreign exchange movements	11,201	997	(6,843)	(445)
Other	-	-	-	-
<b>CET1 Credit risk-weighted assets as at end of Quarter</b>	<b>326,110</b>	<b>17,509</b>	<b>309,719</b>	<b>18,379</b>
Tier 1 CVA scalar	272	272	331	331
<b>Tier 1 Credit risk-weighted assets as at end of Quarter</b>	<b>326,382</b>	<b>17,781</b>	<b>310,050</b>	<b>18,710</b>
Total CVA scalar	218	218	266	266
<b>Total Credit risk-weighted assets as at end of Quarter</b>	<b>326,600</b>	<b>17,999</b>	<b>310,316</b>	<b>18,976</b>

(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 size for Counterparty Credit Risk for Q2 2017 includes a 6% scalar adjustment of \$755 million.

(4) 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.

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

(6) 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)	Q2 2017	Q1 2017
Market risk-weighted assets as at beginning of Quarter	10,643	10,571
Movement in risk levels <sup>(1)</sup>	(1,573)	72
Model updates <sup>(2)</sup>	82	-
Methodology and policy <sup>(3)</sup>	-	-
Acquisitions and disposals	-	-
Other	-	-
<b>Market risk-weighted assets as at end of Quarter</b>	<b>9,152</b>	<b>10,643</b>

(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)	Q2 2017	Q1 2017
Operational risk-weighted assets as at beginning of Quarter	39,249	38,655
Acquisitions and disposals	-	-
Higher Revenue	365	594
<b>Operational risk-weighted assets as at end of Quarter</b>	<b>39,614</b>	<b>39,249</b>

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


	Q2 2017				
	Canadian Banking	International Banking	Global Banking & Markets	Other	All Bank
<b>CET1 Risk-weighted Assets (RWA)</b>					
CET1 RWA (\$B)	\$112.5	\$140.8	\$111.4	\$10.2	\$374.9
Proportion of Bank	30%	38%	30%	3%	101%
Comprised of:					
Credit risk	84%	88%	88%	96%	87%
Market risk	- %	2%	5%	7%	2%
Operational risk	16%	10%	7%	-3%	11%

	Q1 2017				
	Canadian Banking	International Banking	Global Banking & Markets	Other	All Bank
<b>CET1 Risk-weighted Assets (RWA)</b>					
CET1 RWA (\$B)	\$109.9	\$129.8	\$109.6	\$10.3	\$359.6
Proportion of Bank	31%	36%	30%	3%	100%
Comprised of:					
Credit risk	84%	87%	87%	93%	86%
Market risk	- %	2%	6%	7%	3%
Operational risk	16%	11%	7%	- %	11%





## Exposure at Default

(\$MM)	Basel III - IFRS									
	Q2 2017					Q1 2017				
	Non-Retail			Retail	Total	Non-Retail			Retail	Total
	Drawn	Undrawn	Other <sup>(3)</sup>			Drawn	Undrawn	Other <sup>(3)</sup>		
Canada	91,031	37,676	38,876	313,708	481,291	91,166	34,718	36,397	310,023	472,304
USA	79,104	30,717	41,436	-	151,257	77,323	25,857	38,015	-	141,195
Mexico	16,993	1,287	2,346	9,468	30,094	14,179	1,082	1,429	7,871	24,561
Peru	17,027	1,562	3,383	8,001	29,973	15,395	1,467	3,150	7,356	27,368
Chile	12,073	847	1,852	11,929	26,701	10,915	748	1,899	10,805	24,367
Colombia	5,045	244	289	5,821	11,399	4,782	125	179	5,511	10,597
Other International										
Europe	26,585	9,198	11,346	-	47,129	23,433	7,465	10,546	-	41,444
Caribbean	20,127	1,675	1,475	18,940	42,217	18,921	1,554	1,400	18,134	40,009
Latin America (other)	7,458	680	573	722	9,433	7,054	607	670	664	8,995
All Other	24,170	3,937	2,762	-	30,869	24,146	3,966	3,539	-	31,651
<b>Total</b>	<b>299,613</b>	<b>87,823</b>	<b>104,338</b>	<b>368,589</b>	<b>860,363</b>	<b>287,314</b>	<b>77,589</b>	<b>97,224</b>	<b>360,364</b>	<b>822,491</b>

	Basel III - IFRS				
	Q4 2016	Q3 2016	Q2 2016	Q1 2016	Q4 2015
Canada	468,923	462,242	448,512	449,077	435,953
USA	143,808	161,506	155,502	172,472	153,285
Mexico	26,873	24,431	24,467	25,255	23,808
Peru	28,328	26,338	26,101	28,798	27,007
Chile	23,510	22,995	21,271	22,180	19,777
Colombia	10,943	10,318	10,837	10,044	9,899
Other International					
Europe	41,525	44,132	43,796	44,444	40,048
Caribbean	41,168	40,010	38,794	42,343	39,831
Latin America (other)	8,908	9,151	9,598	10,245	8,962
All Other	30,929	31,666	32,344	37,422	36,052
<b>Total</b>	<b>824,915</b>	<b>832,789</b>	<b>811,222</b>	<b>842,280</b>	<b>794,622</b>

(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 <sup>(1)(2)</sup>



## NON-RETAIL AND RETAIL PORTFOLIO EXPOSURE AT DEFAULT

(\$MM)	Basel III - IFRS							
	Q2 2017				Q1 2017			
	Drawn	Undrawn	Other <sup>(3)</sup>	Total	Drawn	Undrawn	Other (3)	Total
<b>Non-Retail</b>								
Less than 1 year	124,023	24,621	63,200	211,844	116,719	21,521	59,345	197,585
1 to 5 years	103,715	53,453	29,977	187,145	105,154	49,233	27,649	182,036
Over 5 Years	9,074	3,070	7,969	20,113	8,999	1,236	7,223	17,458
<b>Total Non-Retail</b>	<b>236,812</b>	<b>81,144</b>	<b>101,146</b>	<b>419,102</b>	<b>230,872</b>	<b>71,990</b>	<b>94,217</b>	<b>397,079</b>
<b>Retail</b>								
Less than 1 year	24,278	15,689		39,967	25,663	15,343		41,006
1 to 5 years	176,341	-		176,341	173,686	-		173,686
Over 5 Years	19,388	-		19,388	18,908	-		18,908
Revolving Credits <sup>(4)</sup>	37,741	26,310		64,051	37,075	25,916		62,991
<b>Total Retail</b>	<b>257,748</b>	<b>41,999</b>		<b>299,747</b>	<b>255,332</b>	<b>41,259</b>		<b>296,591</b>
<b>Total</b>	<b>494,560</b>	<b>123,143</b>	<b>101,146</b>	<b>718,849</b>	<b>486,204</b>	<b>113,249</b>	<b>94,217</b>	<b>693,670</b>

	Basel III - IFRS			
	Q4 2016	Q3 2016	Q2 2016	Q1 2016
<b>Non-Retail</b>				
Less than 1 year	195,369	221,088	210,853	223,167
1 to 5 years	188,751	179,413	175,155	188,042
Over 5 Years	18,880	20,236	19,395	19,199
<b>Total Non-Retail</b>	<b>403,000</b>	<b>420,737</b>	<b>405,403</b>	<b>430,408</b>
<b>Retail</b>				
Less than 1 year	44,215	44,934	44,915	46,929
1 to 5 years	167,999	163,994	162,707	162,064
Over 5 Years	20,243	21,247	19,639	18,896
Revolving Credits <sup>(4)</sup>	58,285	57,408	57,609	56,604
<b>Total Retail</b>	<b>290,742</b>	<b>287,583</b>	<b>284,870</b>	<b>284,493</b>
<b>Total</b>	<b>693,742</b>	<b>708,320</b>	<b>690,273</b>	<b>714,901</b>

(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<sup>(1)</sup>

(\$MM)	Basel III - IFRS													
	Q2 2017							Q1 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%	2,034	-	5,947	7,981	1,743	1,364	3,107	1,866	-	5,026	6,892	1,428	1,351	2,779
20%	579	736	85	1,400	1,780	-	1,780	303	868	88	1,259	1,737	-	1,737
35%	-	-	-	-	19,343	-	19,343	-	-	-	-	17,715	-	17,715
50%	49	217	1,542	1,808	-	339	339	116	131	35	282	-	331	331
75%	-	-	-	-	9,444	32,782	42,226	-	-	-	-	8,636	30,621	39,257
100%	57,411	2,357	550	60,318	1,135	-	1,135	53,858	1,206	903	55,967	1,117	-	1,117
150%+	1,165	-	-	1,165	-	912	912	648	-	-	648	-	837	837
<b>Total</b>	<b>61,238</b>	<b>3,310</b>	<b>8,124</b>	<b>72,672</b>	<b>33,445</b>	<b>35,397</b>	<b>68,842</b>	<b>56,791</b>	<b>2,205</b>	<b>6,052</b>	<b>65,048</b>	<b>30,633</b>	<b>33,140</b>	<b>63,773</b>

Risk-weight	Basel III - IFRS													
	Q4 2016		Q3 2016		Q2 2016		Q1 2016		Q4 2015		Q3 2015		Q2 2015	
	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail	Non-Retail	Retail
0%	7,801	2,507	7,117	2,078	6,375	1,886	6,921	1,895	6,115	1,689	6,123	1,248	5,630	1,080
20%	2,326	1,823	2,037	1,821	2,306	1,985	3,362	2,223	1,695	2,146	1,649	1,779	1,573	1,624
35%	-	17,025	-	16,295	-	15,819	-	16,733	-	16,004	-	16,198	-	17,697
50%	462	345	634	419	835	203	916	186	478	215	382	222	381	204
75%	-	41,048	-	36,866	-	35,648	-	36,021	-	32,321	-	31,942	-	26,166
100%	55,022	1,221	54,192	1,295	53,109	1,288	56,139	1,421	54,632	1,313	53,122	1,336	50,857	1,025
150%+	761	832	716	998	735	760	823	739	539	712	636	690	684	638
<b>Total</b>	<b>66,372</b>	<b>64,801</b>	<b>64,696</b>	<b>59,772</b>	<b>63,360</b>	<b>57,589</b>	<b>68,161</b>	<b>59,218</b>	<b>63,459</b>	<b>54,400</b>	<b>61,912</b>	<b>53,415</b>	<b>59,125</b>	<b>48,434</b>

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

## NON-RETAIL AIRB PORTFOLIO - CREDIT QUALITY

(SMM)	Category external ratings <sup>(1)</sup>	Internal grades	PD bands <sup>(2)</sup>	Basel III - IFRS												
				Q2 2017							Q1 2017					
				Drawn Exposure at Default <sup>(3)</sup>	Undrawn Exposure at Default <sup>(3)</sup>	Other Exposure at Default <sup>(3)</sup>	Total Exposure at Default <sup>(3)</sup>	RWA	Weighted Average PD <sup>(4)(7)</sup>	Weighted Average LGD <sup>(5)(7)</sup>	Weighted Average RW <sup>(6)(7)</sup>	Total Exposure at Default <sup>(3)</sup>	RWA	Weighted Average PD <sup>(4)(7)</sup>	Weighted Average LGD <sup>(5)(7)</sup>	Weighted Average RW <sup>(6)(7)</sup>
\$	\$	\$	\$	\$	%	%	%	\$	\$	%	%	%				
<b>Investment Grade</b>																
<b>Corporate</b>																
		99	0.00% - 0.05%	71,534	57,674	38,636	167,844	47,949	0.13	41	29	149,355	43,755	0.13	41	29
		98	0.00% - 0.05%	381	474	675	1,530	128	0.03	44	8	1,392	136	0.03	44	10
		95	0.05% - 0.13%	88	2,167	212	2,467	205	0.05	34	8	1,002	108	0.05	34	11
		90	0.06% - 0.15%	7,730	6,100	7,255	21,085	3,421	0.06	40	16	17,902	3,308	0.06	39	18
		87	0.10% - 0.24%	14,479	14,054	10,176	38,709	6,551	0.07	37	17	32,552	5,841	0.07	37	18
		85	0.14% - 0.34%	14,417	11,313	8,199	33,929	8,505	0.10	40	25	32,027	7,979	0.10	40	25
		83	0.20% - 0.47%	15,685	14,100	7,288	37,073	13,416	0.16	44	36	33,072	12,072	0.16	44	37
				18,754	9,466	4,831	33,051	15,723	0.25	45	48	31,408	14,311	0.25	45	46
<b>Bank</b>																
		99	0.00% - 0.05%	19,268	3,646	20,094	43,008	8,025	0.11	36	19	37,160	7,363	0.11	37	20
		98	0.00% - 0.05%	56	3	-	59	3	0.03	43	5	505	26	0.03	31	5
		95	0.05% - 0.13%	1,208	747	139	2,094	292	0.05	30	14	2,578	341	0.05	30	13
		90	0.06% - 0.15%	7,318	955	5,661	13,934	2,353	0.06	42	17	11,313	2,134	0.06	45	19
		87	0.10% - 0.24%	5,142	1,027	7,604	13,773	1,924	0.08	33	14	11,672	1,773	0.09	34	15
		85	0.14% - 0.34%	1,676	230	2,156	4,062	912	0.14	36	22	4,739	1,120	0.15	35	24
		83	0.20% - 0.47%	2,327	365	2,125	4,817	1,388	0.23	33	29	3,248	1,073	0.27	35	33
				1,541	319	2,409	4,269	1,153	0.25	32	27	3,105	896	0.25	32	29
<b>Sovereign</b>																
		99	0.00% - 0.05%	79,365	896	5,443	85,704	2,747	0.04	16	3	89,306	2,877	0.04	16	3
		98	0.00% - 0.05%	53,262	140	3,270	56,672	-	-	15	-	59,887	-	-	15	-
		95	0.05% - 0.13%	2,454	39	701	3,194	202	0.05	15	6	4,192	272	0.05	14	6
		90	0.06% - 0.15%	14,673	428	800	15,901	1,093	0.07	16	7	15,759	1,087	0.07	16	7
		87	0.10% - 0.24%	1,029	74	171	1,274	70	0.09	18	5	843	60	0.08	17	7
		85	0.14% - 0.34%	5,503	1	483	5,987	648	0.24	16	11	5,114	396	0.24	15	8
		83	0.20% - 0.47%	1,823	187	18	2,028	516	0.34	25	25	2,931	849	0.34	28	29
				621	27	-	648	218	0.47	30	34	580	213	0.47	33	37
<b>Sub-Total</b>				<b>170,167</b>	<b>62,216</b>	<b>64,173</b>	<b>296,556</b>	<b>58,721</b>	<b>0.10</b>	<b>33</b>	<b>20</b>	<b>275,821</b>	<b>53,995</b>	<b>0.10</b>	<b>32</b>	<b>20</b>
<b>Non-Investment Grade</b>																
<b>Corporate</b>																
		80	0.31% - 0.52%	55,793	16,900	10,920	83,613	55,378	0.65	45	66	84,059	55,568	0.66	45	66
		77	0.48% - 0.58%	23,220	8,902	3,240	35,362	20,240	0.36	47	57	34,026	19,433	0.36	46	57
		75	0.58% - 0.74%	15,558	3,494	1,483	20,535	13,341	0.51	45	65	20,839	13,637	0.51	46	65
		73	0.74% - 1.42%	10,230	2,590	4,746	17,566	12,311	0.74	45	70	18,621	12,647	0.74	45	68
		70	1.42% - 2.72%	4,482	1,387	1,248	7,117	6,186	1.42	41	87	7,613	6,754	1.42	42	89
				2,303	527	203	3,033	3,300	2.72	42	109	2,960	3,097	2.72	41	105
<b>Bank</b>																
		80	0.31% - 0.52%	2,203	136	448	2,787	1,451	0.61	37	52	2,441	1,308	0.60	38	54
		77	0.48% - 0.58%	758	14	218	990	482	0.48	40	49	973	498	0.49	41	51
		75	0.58% - 0.74%	1,206	61	167	1,434	718	0.58	35	50	1,216	613	0.58	37	50
		73	0.74% - 1.42%	171	59	60	290	193	0.74	38	67	187	139	0.74	39	74
		70	1.42% - 2.72%	11	-	3	14	10	1.42	31	72	13	8	1.42	30	63
				57	2	-	59	48	2.72	32	80	52	50	2.72	38	98
<b>Sovereign</b>																
		80	0.31% - 0.52%	3,418	34	1	3,453	665	1.63	20	19	4,174	1,048	1.82	20	25
		77	0.48% - 0.58%	619	3	-	622	104	0.52	17	17	592	91	0.52	17	15
		75	0.58% - 0.74%	914	1	1	916	142	0.58	12	15	951	160	0.58	13	17
		73	0.74% - 1.42%	195	27	-	222	21	0.74	33	9	224	23	0.74	33	10
		70	1.42% - 2.72%	-	-	-	-	-	-	-	-	-	-	-	-	-
				1,690	3	-	1,693	398	2.72	24	24	2,407	774	2.72	23	32
<b>Sub-Total</b>				<b>61,414</b>	<b>17,070</b>	<b>11,369</b>	<b>89,853</b>	<b>57,494</b>	<b>0.69</b>	<b>44</b>	<b>64</b>	<b>90,674</b>	<b>57,924</b>	<b>0.71</b>	<b>44</b>	<b>64</b>

(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 205 of the Bank's 2016 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 - IFRS										Q1 2017				
			Q2 2017					Q1 2017					Q1 2017				
Category external ratings <sup>(1)</sup>	Internal grades	PD bands <sup>(2)</sup>	Drawn	Undrawn	Other	Total	RWA	Weighted	Weighted	Weighted	Total	RWA	Weighted	Weighted	Weighted		
			Exposure at Default <sup>(3)</sup>	Exposure at Default <sup>(3)</sup>	Exposure at Default <sup>(3)</sup>	Exposure at Default <sup>(3)</sup>		Average PD <sup>(4)(7)</sup>	Average LGD <sup>(5)(7)</sup>	Average RW <sup>(6)(7)</sup>			Exposure at Default <sup>(3)</sup>	Average PD <sup>(4)(7)</sup>	Average LGD <sup>(5)(7)</sup>	Average RW <sup>(6)(7)</sup>	
			\$	\$	\$	\$	\$	%	%	%	\$	\$	%	%	%		
<b>Watch List (CCC+ to CC)</b>																	
Corporate	65 - 30	2.72% - 59.98%	2,697	1,246	539	4,482	8,729	22.34	40	195	4,766	9,233	22.07	40	194		
Bank	65 - 30	2.72% - 59.98%	26	3	32	61	106	18.83	37	171	17	37	24.68	41	205		
Sovereign	65 - 30	2.72% - 59.98%	1,074	1	-	1,075	615	9.99	22	57	167	123	15.83	38	73		
<b>Sub-Total</b>			<b>3,797</b>	<b>1,250</b>	<b>571</b>	<b>5,618</b>	<b>9,450</b>	<b>19.94</b>	<b>37</b>	<b>168</b>	<b>4,950</b>	<b>9,393</b>	<b>21.87</b>	<b>40</b>	<b>190</b>		
<b>Default<sup>(8)</sup></b>																	
Corporate	27-21	100%	1,432	602	248	2,282	8,199	100.00	43	359	2,033	6,115	100.00	42	301		
Bank	27-21	100%	2	-	-	2	-	100.00	39	0	2	-	100.00	39	0		
Sovereign	27-21	100%	-	6	-	6	-	100.00	3	-	10	18	100.00	16	179		
<b>Sub-Total</b>			<b>1,434</b>	<b>608</b>	<b>248</b>	<b>2,290</b>	<b>8,199</b>	<b>100.00</b>	<b>43</b>	<b>358</b>	<b>2,045</b>	<b>6,133</b>	<b>100.00</b>	<b>42</b>	<b>300</b>		
<b>Total</b>			<b>236,812</b>	<b>81,144</b>	<b>76,361</b>	<b>394,317</b>	<b>133,864</b>	<b>1.10</b>	<b>36</b>	<b>34</b>	<b>373,490</b>	<b>127,445</b>	<b>1.08</b>	<b>35</b>	<b>34</b>		

(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 205 of the Bank's 2016 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 - IFRS			
	Q2 2017		Q1 2017	
	Notional Undrawn	Weighted Average EAD	Notional Undrawn	Weighted Average EAD
Exposure Type <sup>(1)</sup>				
	\$	%	\$	%
Corporate	141,828	52	130,292	52
Bank	6,231	58	3,160	55
Sovereign	1,539	56	1,363	57
<b>Total</b>	<b>149,598</b>	<b>53</b>	<b>134,815</b>	<b>52</b>

(1) Excludes unconditionally cancellable commitments.

RETAIL AIRB PORTFOLIO EXPOSURES - CREDIT QUALITY <sup>(1)</sup>

Category of PD Grades	PD Range	Basel III - IFRS								
		Q2 2017								
		EAD <sup>(2)</sup>	Notional of undrawn commitments	Exposure weighted-average EAD <sup>(3)</sup>	Exposure weighted-average PD	Exposure weighted-average LGD <sup>(7)</sup>	Exposure weighted-average RW	RWA	EL	EL adjusted average risk weight <sup>(4)</sup>
\$	\$	%	%	%	%	\$	\$	%		
<b>Residential Real Estate Secured<sup>(5)</sup></b>										
<b>Insured Drawn and Undrawn<sup>(6)</sup></b>										
Exceptionally Low	0.01% to 0.04%	98,379	-	100.00	0.00	23	-	1	-	-
Very Low	0.05% to 0.19%	1,897	2	99.93	0.05	21	3	57	-	3
Low	0.20% to 0.99%	2,894	-	105.93	0.35	20	12	352	2	13
Medium Low	1.00% to 2.99%	-	-	102.85	2.02	21	41	-	-	47
Medium	3.00% to 9.99%	-	-	102.71	4.96	22	72	-	-	85
High	10.00% to 19.99%	1	-	102.85	13.70	21	107	1	-	143
Extremely High	20.00% to 99.99%	-	-	-	-	-	-	-	-	-
Default	100%	19	-	100.00	100.00	71	-	-	-	887
<b>Sub-total</b>		<b>103,190</b>	<b>2</b>	<b>100.16</b>	<b>0.03</b>	<b>23</b>	<b>0</b>	<b>411</b>	<b>14</b>	<b>1</b>
<b>Uninsured Undrawn</b>										
Exceptionally Low	0.00% to 0.04%	-	-	-	-	-	-	-	-	-
Very Low	0.05% to 0.19%	14,046	36,108	19.45	0.08	22	4	606	2	5
Low	0.20% to 0.99%	468	1,036	22.60	0.62	29	26	123	1	29
Medium Low	1.00% to 2.99%	101	198	25.35	2.02	33	66	66	1	74
Medium	3.00% to 9.99%	21	42	24.34	4.96	24	79	16	-	94
High	10.00% to 19.99%	10	16	30.85	13.70	25	125	12	-	167
Extremely High	20.00% to 99.99%	2	1	108.10	38.06	26	141	3	-	266
Default	100%	-	-	100.00	-	-	-	-	-	-
<b>Sub-total</b>		<b>14,648</b>	<b>37,401</b>	<b>19.62</b>	<b>0.13</b>	<b>23</b>	<b>6</b>	<b>826</b>	<b>4</b>	<b>6</b>
<b>Uninsured Drawn</b>										
Exceptionally Low	0.00% to 0.04%	3,933	-	100.00	0.05	27	4	142	1	4
Very Low	0.05% to 0.19%	45,679	-	100.00	0.07	20	4	1,770	7	4
Low	0.20% to 0.99%	52,321	-	100.00	0.52	22	17	8,994	62	19
Medium Low	1.00% to 2.99%	5,660	-	100.00	2.50	24	53	3,023	34	61
Medium	3.00% to 9.99%	739	-	100.00	6.21	22	80	588	10	96
High	10.00% to 19.99%	376	-	100.00	13.74	22	111	416	11	148
Extremely High	20.00% to 99.99%	228	-	100.00	34.95	20	109	248	16	196
Default	100%	244	-	100.00	100.00	63	-	-	-	788
<b>Sub-total</b>		<b>109,180</b>	<b>-</b>	<b>100.00</b>	<b>0.80</b>	<b>22</b>	<b>14</b>	<b>15,181</b>	<b>295</b>	<b>17</b>
<b>Qualifying Revolving Retail Exposures (QRRE)</b>										
Exceptionally Low	0.00% to 0.04%	11,692	16,489	34.31	0.05	77	2	282	4	3
Very Low	0.05% to 0.19%	8,207	10,843	36.50	0.17	68	7	534	10	8
Low	0.20% to 0.99%	11,288	8,235	52.73	0.49	78	16	1,841	42	21
Medium Low	1.00% to 2.99%	5,777	1,183	81.31	1.40	87	43	2,507	71	59
Medium	3.00% to 9.99%	5,306	943	84.73	5.57	86	109	5,789	256	169
High	10.00% to 19.99%	-	-	-	-	-	-	-	-	-
Extremely High	20.00% to 99.99%	731	15	101.23	35.62	82	214	1,562	211	575
Default	100%	183	-	100.00	100.00	88	-	-	161	1,105
<b>Sub-total</b>		<b>43,184</b>	<b>37,708</b>	<b>53.43</b>	<b>2.07</b>	<b>78</b>	<b>29</b>	<b>12,515</b>	<b>755</b>	<b>51</b>
<b>Other Retail</b>										
Exceptionally Low	0.00% to 0.04%	577	772	35.43	0.05	74	10	59	-	11
Very Low	0.05% to 0.19%	6,772	3	99.95	0.10	50	13	852	3	13
Low	0.20% to 0.99%	14,381	546	96.26	0.51	56	39	5,633	41	43
Medium Low	1.00% to 2.99%	4,387	13	99.67	1.74	65	80	3,528	50	95
Medium	3.00% to 9.99%	2,299	-	99.98	5.39	63	94	2,165	78	136
High	10.00% to 19.99%	520	-	100.00	19.74	57	127	659	59	268
Extremely High	20.00% to 99.99%	386	-	100.00	41.54	57	150	580	92	450
Default	100%	223	-	100.00	100.00	92	-	-	205	1,147
<b>Sub-total</b>		<b>29,545</b>	<b>1,334</b>	<b>96.86</b>	<b>2.59</b>	<b>57</b>	<b>46</b>	<b>13,476</b>	<b>528</b>	<b>68</b>
<b>Total Retail</b>										
Exceptionally Low	0.01% to 0.04%	114,581	17,261	92.97	0.01	29	0	484	5	0
Very Low	0.05% to 0.19%	76,601	46,956	78.42	0.09	28	5	3,819	22	5
Low	0.20% to 0.99%	81,352	9,817	92.54	0.51	36	21	16,943	148	23
Medium Low	1.00% to 2.99%	15,925	1,394	92.66	1.89	58	57	9,124	156	69
Medium	3.00% to 9.99%	8,365	985	90.12	5.58	74	102	8,558	344	154
High	10.00% to 19.99%	907	16	99.26	17.18	42	120	1,088	70	217
Extremely High	20.00% to 99.99%	1,347	16	100.68	37.20	64	178	2,393	319	474
Default	100%	669	-	100.00	100.00	80	-	-	534	997
<b>Total</b>		<b>299,747</b>	<b>76,445</b>	<b>89.11</b>	<b>0.86</b>	<b>34</b>	<b>14</b>	<b>42,409</b>	<b>1,598</b>	<b>21</b>

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

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

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

(7) 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.

RETAIL AIRB PORTFOLIO EXPOSURES - CREDIT QUALITY <sup>(1)</sup>

Category of PD Grades	PD Range	Basel III - IFRS								
		Q1 2017								
		EAD <sup>(2)</sup>	Notional of undrawn commitments	Exposure weighted-average EAD <sup>(3)</sup>	Exposure weighted-average PD	Exposure weighted-average LGD <sup>(7)</sup>	Exposure weighted-average RW	RWA	EL	EL adjusted average risk weight <sup>(4)</sup>
\$	\$	%	%	%	%	\$	\$	%		
<b>Residential Real Estate Secured<sup>(5)</sup></b>										
<b>Insured Drawn and Undrawn<sup>(6)</sup></b>										
Exceptionally Low	0.01% to 0.04%	101,030	-	100.00	0.00	23	-	1	-	-
Very Low	0.05% to 0.19%	1,861	3	99.91	0.05	21	3	56	-	3
Low	0.20% to 0.99%	2,927	-	105.43	0.35	20	12	359	2	13
Medium Low	1.00% to 2.99%	-	-	102.01	2.02	23	46	-	-	52
Medium	3.00% to 9.99%	-	-	-	-	-	-	-	-	-
High	10.00% to 19.99%	1	-	102.85	13.70	21	107	1	-	143
Extremely High	20.00% to 99.99%	-	-	-	-	-	-	-	-	-
Default	100%	21	-	100.00	100.00	67	-	-	14	835
<b>Sub-total</b>		<b>105,840</b>	<b>3</b>	<b>100.14</b>	<b>0.03</b>	<b>23</b>	<b>0</b>	<b>417</b>	<b>16</b>	<b>1</b>
<b>Uninsured Undrawn</b>										
Exceptionally Low	0.00% to 0.04%	-	-	-	-	-	-	-	-	-
Very Low	0.05% to 0.19%	13,778	35,306	19.51	0.08	22	4	587	2	4
Low	0.20% to 0.99%	413	948	21.76	0.62	27	25	101	1	27
Medium Low	1.00% to 2.99%	110	211	25.97	2.02	34	66	73	1	75
Medium	3.00% to 9.99%	20	42	23.70	4.96	24	80	16	-	95
High	10.00% to 19.99%	10	16	29.96	13.70	24	123	12	-	164
Extremely High	20.00% to 99.99%	3	1	129.75	39.26	27	146	4	-	282
Default	100%	-	-	100.00	-	-	-	-	-	-
<b>Sub-total</b>		<b>14,334</b>	<b>36,524</b>	<b>19.66</b>	<b>0.13</b>	<b>22</b>	<b>6</b>	<b>793</b>	<b>4</b>	<b>6</b>
<b>Uninsured Drawn</b>										
Exceptionally Low	0.00% to 0.04%	4,117	-	100.00	0.05	27	4	148	1	4
Very Low	0.05% to 0.19%	43,462	-	100.00	0.07	20	4	1,671	7	4
Low	0.20% to 0.99%	50,098	-	100.00	0.53	21	17	8,443	58	18
Medium Low	1.00% to 2.99%	5,072	-	100.00	2.49	23	50	2,529	28	57
Medium	3.00% to 9.99%	799	-	100.00	6.27	22	78	624	11	95
High	10.00% to 19.99%	416	-	100.00	13.75	21	109	452	12	145
Extremely High	20.00% to 99.99%	334	-	100.00	34.99	20	111	370	24	199
Default	100%	256	-	100.00	100.00	61	-	-	155	758
<b>Sub-total</b>		<b>104,554</b>	<b>-</b>	<b>100.00</b>	<b>0.87</b>	<b>21</b>	<b>14</b>	<b>14,237</b>	<b>296</b>	<b>17</b>
<b>Qualifying Revolving Retail Exposures (QRRE)</b>										
Exceptionally Low	0.00% to 0.04%	11,336	16,040	34.26	0.05	77	2	275	4	3
Very Low	0.05% to 0.19%	8,125	10,732	36.54	0.17	68	7	530	10	8
Low	0.20% to 0.99%	11,033	8,105	52.55	0.49	79	16	1,792	41	21
Medium Low	1.00% to 2.99%	5,790	1,219	80.93	1.40	87	44	2,520	71	59
Medium	3.00% to 9.99%	5,347	933	84.94	5.63	86	110	5,889	261	171
High	10.00% to 19.99%	-	-	-	-	-	-	-	-	-
Extremely High	20.00% to 99.99%	825	18	100.93	36.96	82	214	1,762	248	590
Default	100%	213	-	100.00	100.00	89	-	-	190	1,111
<b>Sub-total</b>		<b>42,669</b>	<b>37,047</b>	<b>53.73</b>	<b>2.28</b>	<b>79</b>	<b>30</b>	<b>12,768</b>	<b>825</b>	<b>54</b>
<b>Other Retail</b>										
Exceptionally Low	0.00% to 0.04%	568	771	35.11	0.05	74	10	58	-	11
Very Low	0.05% to 0.19%	6,585	2	99.95	0.10	50	13	828	3	13
Low	0.20% to 0.99%	13,844	516	96.29	0.51	56	39	5,434	40	43
Medium Low	1.00% to 2.99%	4,510	14	99.65	1.74	65	80	3,611	51	94
Medium	3.00% to 9.99%	2,454	1	99.98	5.38	63	94	2,318	83	137
High	10.00% to 19.99%	536	-	100.00	19.74	57	127	680	61	268
Extremely High	20.00% to 99.99%	457	-	100.00	41.92	57	150	685	110	453
Default	100%	240	-	100.00	100.00	92	-	-	220	1,145
<b>Sub-total</b>		<b>29,194</b>	<b>1,304</b>	<b>96.91</b>	<b>2.83</b>	<b>57</b>	<b>47</b>	<b>13,614</b>	<b>568</b>	<b>71</b>
<b>Total Retail</b>										
Exceptionally Low	0.01% to 0.04%	117,051	16,811	93.32	0.01	29	0	482	5	0
Very Low	0.05% to 0.19%	73,811	46,043	77.98	0.09	28	5	3,672	22	5
Low	0.20% to 0.99%	78,315	9,569	92.45	0.51	36	21	16,129	142	23
Medium Low	1.00% to 2.99%	15,482	1,444	92.24	1.86	59	56	8,733	151	69
Medium	3.00% to 9.99%	8,620	976	90.47	5.61	74	103	8,847	355	154
High	10.00% to 19.99%	963	16	99.29	17.09	41	119	1,145	73	214
Extremely High	20.00% to 99.99%	1,619	19	100.52	37.96	62	174	2,821	382	470
Default	100%	730	-	100.00	100.00	79	-	-	579	990
<b>Total</b>		<b>296,591</b>	<b>74,878</b>	<b>89.21</b>	<b>0.93</b>	<b>34</b>	<b>14</b>	<b>41,829</b>	<b>1,709</b>	<b>21</b>

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

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

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

(7) 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.

Exposure Type	Basel III - IFRS									
	Q2 2017		Q1 2017		Q4 2016		Q3 2016		Q2 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
	%	%	%	%	%	%	%	%	%	%
<b>Non-Retail<sup>(1)</sup></b>										
Corporate	<b>0.14</b>	<b>0.78</b>	0.22	0.67	0.25	0.80	0.24	0.80	0.20	0.95
Sovereign	-	<b>0.02</b>	-	0.04	-	0.02	-	0.02	-	0.03
Bank	-	<b>0.10</b>	-	0.11	-	0.09	-	0.09	-	0.12
<b>Retail<sup>(2)</sup></b>										
Real Estate Secured	<b>0.01</b>	<b>0.11</b>	0.01	0.13	0.01	0.12	0.01	0.12	0.01	0.15
QRRE	<b>2.62</b>	<b>4.23</b>	2.36	4.29	2.21	4.37	2.55	4.37	2.46	4.49
Other Retail	<b>0.62</b>	<b>1.86</b>	0.59	1.86	0.60	1.72	0.59	1.72	0.65	1.78

(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**


	Q2 2017 <sup>(1)</sup>						Q1 2017 <sup>(1)</sup>					
	Average estimated PD %	Actual default rate %	Average estimated LGD %	Actual LGD %	Average estimated CCF <sup>(2)</sup> %	Actual CCF <sup>(2)</sup> %	Average estimated PD %	Actual default rate %	Average estimated LGD %	Actual LGD %	Average estimated CCF <sup>(2)</sup> %	Actual CCF <sup>(2)</sup> %
Non-Retail	0.88	0.57	51.30	23.02	51.28	17.58	0.87	0.64	41.29	25.34	49.92	17.79

<sup>(1)</sup> Reporting is on a one quarter lag basis. For reporting as of Q2/17, estimated parameters are based on portfolio averages at Q1/16 whereas actual parameters are based on averages of realized parameters during the subsequent four quarters (Q2/16 – Q1/17).

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

(\$MM)	Four-quarter period ending Q2 2017 <sup>(1)</sup>						Four-quarter period ending Q1 2017 <sup>(1)</sup>					
	Average estimated PD <sup>(2)(7)</sup> %	Actual default rate <sup>(2)(5)</sup> %	Average estimated LGD <sup>(3)(7)</sup> %	Actual LGD <sup>(3)(6)</sup> %	Estimated EAD <sup>(4)(7)</sup> \$	Actual EAD <sup>(4)(5)</sup> \$	Average estimated PD <sup>(2)(7)</sup> %	Actual default rate <sup>(2)(5)</sup> %	Average estimated LGD <sup>(3)(7)</sup> %	Actual LGD <sup>(3)(6)</sup> %	Estimated EAD <sup>(4)(7)</sup> \$	Actual EAD <sup>(4)(5)</sup> \$
Residential real estate secured												
Residential mortgages												
Insured mortgages <sup>(8)</sup>	0.82	0.73	-	-	-	-	1.03	0.73	-	-	-	-
Uninsured mortgages	0.45	0.42	18.19	10.53	-	-	0.61	0.42	19.37	11.52	-	-
Secured lines of credit	0.77	0.30	28.91	16.15	99	86	0.79	0.27	29.36	18.72	93	82
Qualifying revolving retail exposures	2.09	1.95	77.44	63.02	744	647	2.08	1.86	77.54	64.07	705	615
Other retail	2.16	1.35	58.41	46.08	6	6	2.01	1.34	58.55	46.64	6	6

(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 <sup>(1)</sup>

(\$MM)	Basel III - IFRS														
	Q2 2017			Q1 2017			Q4 2016			Q3 2016			Q2 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
<b>Non-Retail</b>															
Corporate	580	1,840	19,210	472	1,559	18,722	527	1,509	17,919	643	1,362	15,298	577	1,259	14,790
Bank	-	-	8,703	-	-	9,428	-	-	9,727	-	-	9,563	-	-	8,496
Sovereign	-	-	6,124	-	86	7,272	-	95	7,701	-	92	6,904	-	89	7,660
<b>Total Non-Retail</b>	<b>580</b>	<b>1,840</b>	<b>34,037</b>	<b>472</b>	<b>1,645</b>	<b>35,422</b>	<b>527</b>	<b>1,604</b>	<b>35,347</b>	<b>643</b>	<b>1,454</b>	<b>31,765</b>	<b>577</b>	<b>1,348</b>	<b>30,946</b>
<b>Retail</b>															
Residential Mortgages <sup>(2)</sup>	-	3,522	98,354	-	3,165	101,005	-	2,945	102,514	-	2,396	105,718	-	2,450	109,234
Secured Lines of Credit															
Qualifying Revolving Retail Exposures (QRRE)															
Other Retail	637	1,067	-	613	1,071	-	637	1,105	-	717	1,206	-	692	933	-
<b>Total Retail</b>	<b>637</b>	<b>4,589</b>	<b>98,354</b>	<b>613</b>	<b>4,236</b>	<b>101,005</b>	<b>637</b>	<b>4,050</b>	<b>102,514</b>	<b>717</b>	<b>3,602</b>	<b>105,718</b>	<b>692</b>	<b>3,383</b>	<b>109,234</b>
<b>Total</b>	<b>1,217</b>	<b>6,429</b>	<b>132,391</b>	<b>1,085</b>	<b>5,881</b>	<b>136,427</b>	<b>1,164</b>	<b>5,654</b>	<b>137,861</b>	<b>1,360</b>	<b>5,056</b>	<b>137,483</b>	<b>1,269</b>	<b>4,731</b>	<b>140,180</b>

(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 <sup>(1)</sup>**


(\$MM)	Basel III - IFRS															
	Q2 2017				Q1 2017				Q4 2016				Q3 2016			
Contract Types	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount <sup>(3)</sup>	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount <sup>(3)</sup>	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount <sup>(3)</sup>	Notional Amount	Credit Risk Amount	Credit Risk Equivalent Amount	Risk-weighted Amount <sup>(3)</sup>
<b>Interest Rate Contracts:</b>																
Futures and Forward Rate Agreements	476,404	17	251	14	332,808	35	204	25	422,104	9	100	17	517,818	7	93	19
Swaps	2,343,203	840	6,046	1,626	2,230,451	755	5,938	1,774	2,294,534	2,703	7,331	2,125	2,404,362	3,539	7,933	2,321
Options Purchased	40,690	44	161	77	47,480	5	103	51	50,830	6	107	52	58,697	-	106	59
Options Written	43,454	11	14	3	39,102	-	95	21	40,147	-	1	-	50,236	-	-	-
<b>Total</b>	<b>2,903,751</b>	<b>912</b>	<b>6,472</b>	<b>1,720</b>	<b>2,649,841</b>	<b>795</b>	<b>6,340</b>	<b>1,871</b>	<b>2,807,615</b>	<b>2,718</b>	<b>7,539</b>	<b>2,194</b>	<b>3,031,113</b>	<b>3,546</b>	<b>8,132</b>	<b>2,399</b>
<b>Foreign Exchange Contracts:</b>																
Futures and Forwards	461,815	3,529	5,124	1,375	444,052	2,642	5,051	1,303	485,153	2,057	5,458	1,342	484,425	2,177	6,917	1,564
Swaps	377,982	4,298	7,359	1,881	360,893	3,735	6,693	1,821	354,604	2,532	5,976	1,594	341,829	2,448	4,967	1,359
Options Purchased	26,363	565	554	226	21,701	446	507	233	16,616	322	532	129	20,451	18	560	134
Options Written	26,732	-	77	38	21,607	-	44	20	16,245	-	127	19	20,173	-	114	16
<b>Total</b>	<b>892,892</b>	<b>8,392</b>	<b>13,114</b>	<b>3,520</b>	<b>848,253</b>	<b>6,823</b>	<b>12,295</b>	<b>3,377</b>	<b>872,618</b>	<b>4,911</b>	<b>12,093</b>	<b>3,084</b>	<b>866,878</b>	<b>4,643</b>	<b>12,558</b>	<b>3,073</b>
<b>Other Derivatives Contracts:</b>																
Equity	100,502	431	4,966	1,740	105,035	12	5,043	1,670	87,908	871	5,308	1,677	77,185	792	4,539	1,556
Credit	42,705	90	1,205	196	43,928	11	1,975	496	49,058	32	2,032	340	46,779	6	2,080	388
Other	118,764	696	11,342	905	111,153	23	7,163	1,259	78,753	1,109	6,493	645	76,838	1,292	5,790	739
<b>Total</b>	<b>261,971</b>	<b>1,217</b>	<b>17,513</b>	<b>2,841</b>	<b>260,116</b>	<b>46</b>	<b>14,181</b>	<b>3,425</b>	<b>215,719</b>	<b>2,012</b>	<b>13,833</b>	<b>2,662</b>	<b>200,802</b>	<b>2,090</b>	<b>12,409</b>	<b>2,683</b>
<b>Credit Valuation Adjustment<sup>(2)(3)</sup></b>				<b>3,923</b>				<b>4,769</b>				<b>4,165</b>				<b>4,749</b>
<b>Total Derivatives after Netting and Collateral</b>	<b>4,058,614</b>	<b>10,521</b>	<b>37,099</b>	<b>12,004</b>	<b>3,758,210</b>	<b>7,664</b>	<b>32,816</b>	<b>13,442</b>	<b>3,895,952</b>	<b>9,641</b>	<b>33,465</b>	<b>12,105</b>	<b>4,098,793</b>	<b>10,279</b>	<b>33,099</b>	<b>12,904</b>

	Basel III - IFRS									
	Q2 2016		Q1 2016		Q4 2015		Q3 2015			
Contract Types	Notional Amount	Risk-weighted Amount	Notional Amount	Risk-weighted Amount	Notional Amount	Risk-weighted Amount	Notional Amount	Risk-weighted Amount	Notional Amount	Risk-weighted Amount
<b>Interest Rate Contracts:</b>										
Futures and Forward Rate Agreements	707,435	12	936,412	52	997,269	45	1,467,044	81		
Swaps	2,442,636	1,913	2,850,581	2,083	2,815,412	1,871	3,195,869	1,606		
Options Purchased	67,398	62	69,257	150	61,404	138	37,430	124		
Options Written	59,001	-	62,841	-	61,655	-	38,674	-		
<b>Total</b>	<b>3,276,470</b>	<b>1,987</b>	<b>3,919,091</b>	<b>2,285</b>	<b>3,935,740</b>	<b>2,054</b>	<b>4,739,017</b>	<b>1,811</b>		
<b>Foreign Exchange Contracts:</b>										
Futures and Forwards	477,938	1,949	543,686	2,055	458,256	1,865	457,246	2,204		
Swaps	334,784	1,434	364,107	2,545	338,328	2,214	322,576	1,947		
Options Purchased	9,244	129	5,766	126	5,633	98	5,353	93		
Options Written	8,850	3	4,920	-	4,884	-	4,664	-		
<b>Total</b>	<b>830,816</b>	<b>3,515</b>	<b>918,479</b>	<b>4,726</b>	<b>807,101</b>	<b>4,177</b>	<b>789,839</b>	<b>4,244</b>		
<b>Other Derivatives Contracts:</b>										
Equity	63,384	1,618	64,934	2,201	62,549	2,049	70,993	2,202		
Credit	49,220	505	60,447	611	63,933	608	62,297	806		
Other	80,213	809	86,902	1,930	149,806	1,945	132,744	1,827		
<b>Total</b>	<b>192,817</b>	<b>2,932</b>	<b>212,283</b>	<b>4,742</b>	<b>276,288</b>	<b>4,602</b>	<b>266,034</b>	<b>4,835</b>		
<b>Total Derivatives</b>	<b>4,300,103</b>	<b>8,434</b>	<b>5,049,853</b>	<b>11,753</b>	<b>5,019,129</b>	<b>10,833</b>	<b>5,794,890</b>	<b>10,890</b>		
<b>Credit Valuation Adjustment<sup>(2)</sup></b>		<b>4,778</b>		<b>8,305</b>		<b>7,183</b>		<b>7,282</b>		
<b>Risk-weighted Amount</b>		<b>13,212</b>		<b>20,058</b>		<b>18,016</b>		<b>18,172</b>		

(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 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<sup>(1)</sup>**


(\$MM)			Basel III - IFRS															
			Q2 2017				Q1 2017				Q4 2016				Q3 2016			
Risk Category	External Rating (S&P)	Risk-Weight %	Exposure at Default <sup>(2)</sup>			Risk-Weighted Assets	Exposure at Default <sup>(2)</sup>			Risk-Weighted Assets	Exposure at Default <sup>(2)</sup>			Risk-Weighted Assets	Exposure at Default <sup>(2)</sup>			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	
<b>Securitization</b>																		
Investment Grade	AAA to A A- to BBB- <sup>(3)</sup>	7 - 25 35 - 100	10,423	14,132	24,555	2,225	9,999	13,363	23,362	2,074	10,176	14,602	24,778	2,081	10,183	14,600	24,783	2,090
			134	4	138	114	142	4	146	117	136	12	148	119	169	10	179	151
Non-Investment Grade	BB+ to BB- Below BB-	150 - 650 1250	13	-	13	57	-	-	-	-	-	-	-	-	3	-	3	8
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			10,570	14,136	24,706	2,396	10,141	13,367	23,508	2,191	10,312	14,614	24,926	2,200	10,355	14,610	24,965	2,249
<b>Resecuritization</b>																		
Investment Grade	AAA to A A- to BBB-	20 - 65 100 - 350	-	-	-	-	-	-	-	-	-	-	-	-	-	38	38	25
			62	2	64	128	61	-	61	122	79	-	79	158	69	-	69	151
Non-Investment Grade	BB+ to BB- Below BB-	500 - 850 1250	-	-	-	-	-	-	-	-	-	-	-	-	18	-	18	119
			15	-	15	193	20	-	20	248	20	-	20	255	20	-	20	249
			77	2	79	321	81	-	81	370	99	-	99	413	107	38	145	544
<b>Total</b>			<b>10,647</b>	<b>14,138</b>	<b>24,785</b>	<b>2,717</b>	<b>10,222</b>	<b>13,367</b>	<b>23,589</b>	<b>2,561</b>	<b>10,411</b>	<b>14,614</b>	<b>25,025</b>	<b>2,613</b>	<b>10,462</b>	<b>14,648</b>	<b>25,110</b>	<b>2,793</b>

(\$MM)			Basel III - IFRS													
			Q2 2017				Q1 2017				Q4 2016				Q3 2016	
Underlying Asset	Exposure at Default <sup>(2)</sup>			Exposures at Default (RW=1250%)	Exposure at Default <sup>(2)</sup>			Exposures at Default (RW=1250%)	Exposure at Default <sup>(2)</sup>			Exposures at Default (RW=1250%)	Exposure at Default <sup>(2)</sup>			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	-	1,275	1,275	-	468	1,275	1,743	-	510	1,275	1,785	-	461	1,275	1,736	-
Commercial Mortgages	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-
Credit cards/Consumer receivables	703	2,720	3,423	-	614	2,213	2,827	-	623	2,304	2,927	-	765	2,491	3,256	-
Auto loans/Leases	5,461	6,355	11,816	-	4,180	6,440	10,620	-	4,295	6,889	11,184	-	4,242	6,824	11,066	-
Diversified asset-backed securities	125	38	163	15	54	61	115	20	136	34	170	20	169	14	183	20
Business Loans	-	-	-	-	-	12	12	-	-	22	22	-	-	32	32	-
Trade receivables	3,604	3,714	7,318	-	4,176	3,342	7,518	-	3,963	4,070	8,033	-	4,093	3,850	7,943	-
Other	754	36	790	-	730	24	754	-	884	20	904	-	729	162	891	-
<b>Total</b>	<b>10,647</b>	<b>14,138</b>	<b>24,785</b>	<b>15</b>	<b>10,222</b>	<b>13,367</b>	<b>23,589</b>	<b>20</b>	<b>10,411</b>	<b>14,614</b>	<b>25,025</b>	<b>20</b>	<b>10,462</b>	<b>14,648</b>	<b>25,110</b>	<b>20</b>

(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 <sup>(1)</sup> (CONTINUED)**


(SMM)			Basel III - IFRS															
			Q2 2016				Q1 2016				Q4 2015				Q3 2015			
Risk Category	External Rating (S&P)	Risk-Weight %	Exposure at Default <sup>(2)</sup>			Risk-Weighted Assets	Exposure at Default <sup>(2)</sup>			Risk-Weighted Assets	Exposure at Default <sup>(2)</sup>			Risk-Weighted Assets	Exposure at Default <sup>(2)</sup>			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	
<b>Securitization</b>																		
Investment Grade	AAA to A	7 - 25	9,268	14,271	23,539	1,980	10,231	12,965	23,196	1,961	8,581	12,110	20,691	1,807	8,658	11,842	20,500	1,798
	A- to BBB-	35 - 100	69	9	78	75	160	15	175	170	118	13	131	124	149	5	154	143
Non-Investment Grade	BB+ to BB-	150 - 650	3	-	3	8	3	-	3	8	3	-	3	8	3	-	3	8
	Below BB-	1250	-	-	-	-	-	-	-	-	28	-	28	350	101	-	101	1,266
			<b>9,340</b>	<b>14,280</b>	<b>23,620</b>	<b>2,063</b>	<b>10,394</b>	<b>12,980</b>	<b>23,374</b>	<b>2,139</b>	<b>8,730</b>	<b>12,123</b>	<b>20,853</b>	<b>2,289</b>	<b>8,911</b>	<b>11,847</b>	<b>20,758</b>	<b>3,215</b>
<b>Resecuritization</b>																		
Investment Grade	AAA to A	20 - 65	-	38	38	25	-	38	38	25	-	38	38	25	-	56	56	36
	A- to BBB-	100 - 350	67	-	67	147	74	-	74	160	89	-	89	196	92	-	92	205
Non-Investment Grade	BB+ to BB-	500 - 850	18	-	18	115	20	-	20	128	-	-	-	-	-	-	-	-
	Below BB-	1250	19	-	19	238	21	-	21	267	20	-	20	249	20	-	20	249
			<b>104</b>	<b>38</b>	<b>142</b>	<b>525</b>	<b>115</b>	<b>38</b>	<b>153</b>	<b>580</b>	<b>109</b>	<b>38</b>	<b>147</b>	<b>470</b>	<b>112</b>	<b>56</b>	<b>168</b>	<b>490</b>
<b>Total</b>			<b>9,444</b>	<b>14,318</b>	<b>23,762</b>	<b>2,588</b>	<b>10,509</b>	<b>13,018</b>	<b>23,527</b>	<b>2,719</b>	<b>8,839</b>	<b>12,161</b>	<b>21,000</b>	<b>2,759</b>	<b>9,023</b>	<b>11,903</b>	<b>20,926</b>	<b>3,705</b>

(SMM)		Basel III - IFRS															
		Q2 2016				Q1 2016				Q4 2015				Q3 2015			
Underlying Asset		Exposure at Default <sup>(2)</sup>			Exposures at Default (RW=1250%)	Exposure at Default <sup>(2)</sup>			Exposures at Default (RW=1250%)	Exposure at Default <sup>(2)</sup>			Exposures at Default (RW=1250%)	Exposure at Default <sup>(2)</sup>			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		415	1,275	1,690	-	487	1,275	1,762	-	187	1,275	1,462	-	266	1,275	1,541	66
Commercial Mortgages		3	-	3	-	3	-	3	-	9	-	9	-	3	-	3	-
Credit cards/Consumer receivables		757	2,835	3,592	-	992	2,631	3,623	-	576	2,658	3,234	-	798	2,436	3,234	-
Auto loans/Leases		3,472	5,931	9,403	-	4,395	3,967	8,362	-	3,914	2,940	6,854	28	4,271	2,782	7,053	49
Diversified asset-backed securities		165	59	224	19	267	71	338	21	211	43	254	20	202	22	224	20
Business Loans		-	46	46	-	-	62	62	-	-	80	80	-	18	100	118	-
Trade receivables		3,633	4,101	7,734	-	3,604	4,934	8,538	-	3,083	5,116	8,199	-	2,614	5,229	7,843	-
Other		999	71	1,070	-	761	78	839	-	859	49	908	-	851	59	910	-
<b>Total</b>		<b>9,444</b>	<b>14,318</b>	<b>23,762</b>	<b>19</b>	<b>10,509</b>	<b>13,018</b>	<b>23,527</b>	<b>21</b>	<b>8,839</b>	<b>12,161</b>	<b>21,000</b>	<b>48</b>	<b>9,023</b>	<b>11,903</b>	<b>20,926</b>	<b>135</b>

(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.

## TOTAL MARKET RISK-WEIGHTED ASSETS



(\$MM)	Q2 2017	Q1 2017	Q4 2016	Q3 2016	Q2 2016
All Bank VaR	1,390	1,498	1,306	1,439	1,792
All Bank stressed VaR	3,201	3,660	2,616	3,542	3,676
Incremental risk charge	3,557	4,361	5,086	5,301	6,714
Comprehensive risk measure <sup>(1)</sup>	602	708	963	838	1,017
Standardized approach	402	416	600	576	686
<b>Market risk-weighted assets as at end of Quarter</b>	<b>9,152</b>	<b>10,643</b>	<b>10,571</b>	<b>11,696</b>	<b>13,885</b>

(1) The Q2 2017 related capital charge for total comprehensive risk measure including securitization exposures is \$48MM (Q1 2017: \$57MM) broken down as follows: Market Simulation \$14MM (Q1 2017: \$16MM), Default & Migration Risk \$34MM (Q1 2017: \$41MM).

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


(\$MM)	Item	Q2 2017	Q1 2017
1	Total consolidated assets as per published financial statements	921,646	886,992
2	Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	(473)	(442)
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	9,227	8,084
5	Adjustment for securities financing transactions (i.e., repo assets and similar secured lending)	12,849	2,477
6	Adjustment for off balance-sheet items (i.e., credit equivalent amounts of off-balance sheet exposures)	131,681	121,437
7	Other adjustments	(11,811)	(11,749)
8	Leverage Ratio Exposure (transitional basis)	1,063,119	1,006,799

# LEVERAGE RATIO FRAMEWORK



(\$MM)	Item <sup>(1)</sup>	Q2 2017	Q1 2017
	<b>On-balance sheet exposures</b>		
1	On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral)	<b>781,890</b>	754,260
2	(Asset amounts deducted in determining Basel III transitional Tier 1 capital)	<b>(11,811)</b>	(11,749)
3	Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of lines 1 and 2)	<b>770,079</b>	742,511
	<b>Derivative exposures</b>		
4	Replacement cost associated with all derivative transactions (i.e. net of eligible cash variation margin)	<b>8,740</b>	7,327
5	Add-on amounts for PFE associated with all derivative transactions	<b>37,727</b>	33,781
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)	<b>(3,592)</b>	(2,037)
8	(Exempted CCP-leg of client cleared trade exposures)	-	-
9	Adjusted effective notional amount of written credit derivatives	<b>11,753</b>	12,398
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	<b>(7,760)</b>	(8,422)
11	Total derivative exposures (sum of lines 4 to 10)	<b>46,868</b>	43,047
	<b>Securities financing transaction exposures</b>		
12	Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	<b>116,373</b>	103,682
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	<b>(14,731)</b>	(6,355)
14	Counterparty credit risk (CCR) exposure for SFT assets	<b>12,849</b>	2,477
15	Agent transaction exposures	-	-
16	Total securities financing transaction exposures (sum of lines 12 to 15)	<b>114,491</b>	99,804
	<b>Other off-balance sheet exposures</b>		
17	Off-balance sheet exposure at gross notional amount	<b>402,041</b>	375,841
18	(Adjustments for conversion to credit equivalent amounts)	<b>(270,360)</b>	(254,404)
19	Off-balance sheet items (sum of lines 17 and 18)	<b>131,681</b>	121,437
	<b>Capital and Total Exposures - Transitional Basis</b>		
20	Tier 1 capital	<b>48,357</b>	46,415
21	Total Exposures (sum of lines 3, 11, 16 and 19)	<b>1,063,119</b>	1,006,799
	<b>Leverage Ratios - Transitional Basis</b>		
22	Basel III leverage ratio	<b>4.5%</b>	4.6%
	<b>All-in basis (Required by OSFI)</b>		
23	Tier 1 capital – All-in basis	<b>47,048</b>	45,247
24	(Regulatory adjustments)	<b>(12,991)</b>	(12,791)
25	Total Exposures (sum of lines 21 and 24, less the amount reported in line 2) – All-in basis	<b>1,061,939</b>	1,005,757
26	Leverage ratio – All-in basis	<b>4.4%</b>	4.5%

(1) On-balance sheet items excludes securities purchased under resale agreements and securities borrowed (\$101,643MM), derivative financial instruments (\$37,641MM), assets outside the regulatory scope of consolidation (\$473MM).



# 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. <sup>(1)</sup>
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. <sup>(1)</sup>
21	Sum of lines 3, 11, 16 and 19.
22	Basel III leverage ratio according to paragraph 5 of the Leverage Requirements Guideline. <sup>(1)</sup> (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.

<b>Credit Risk Parameters</b>	
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.
<b>Exposure Types</b>	
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.
<b>Exposure Sub-types</b>	
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.
<b>Other</b>	
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.
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).