2020 HSBC Bank Canada Regulatory Capital & Risk Management

Pillar 3 Supplementary Disclosures As at December 31, 2020



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## Notes to users

### **Regulatory Capital and Risk Management Pillar 3 Disclosures**

The Office of the Superintendent of Financial Institutions ("OSFI") supervises HSBC Bank Canada (the "Bank") on a consolidated basis. OSFI has approved the Bank's application to apply the Advanced Internal Ratings Based ("AIRB") approach to credit risk on our portfolio and the Standardized Approach for measuring Operational Risk. Please refer to the Annual Report and Accounts 2020 for further information on the Bank's risk and capital management framework. Further information regarding HSBC Group Risk Management Processes can be found in HSBC Holdings plc Capital and Risk Management Pillar 3 Disclosures available on HSBC Group's investor relations web site.

The Pillar 3 Supplemental Disclosures are additional summary descriptions and quantitative financial information which supplement those already made in the Annual Report and Accounts 2020 for the disclosure requirements under OSFI's Pillar 3 Disclosure Requirements Advisory issued September 29, 2006 consistent with the "International Convergence of Capital Measurement and Capital Standards" ('Basel II') issued by the Basel Committee on Banking Supervision (BCBS) in June 2006 and the "Composition of capital disclosure requirements" ('Basel III') issued by the BCBS in June 2012 under OSFI's advisory letter requirements issued in July 2013 and revised in May 2018

The Basel rules are structured around three "pillars":

- Pillar 1 defines the Minimum capital requirements,
- Pillar 2 requires banks to have robust Internal Capital Adequacy Assessment Processes (ICAAP) which will be part of regulators' Supervisory review
- Pillar 3 defines the Market discipline/ disclosures required by Banks which should be consistent and comparable across Banks.

Pillar 3 complements the other two pillars of Basel framework i.e. minimum capital requirements and the supervisory review process. Its aim is to encourage market discipline by developing a set of disclosure requirements which will allow market participants to assess certain specified information on the scope of application of Basel 2/2.5 ('the Basel rules'), capital, particular risk exposures, risk assessment processes, and hence the capital adequacy of the institution.

The supervisory objectives of BCBS are to promote safety and soundness in the financial system and maintain an appropriate level of capital in the system, enhance competitive equality, constitute a more comprehensive approach to addressing risks, and focus on internationally active banks.

On June 26, 2012, the BCBS issued the Basel III rules on the information banks must publicly disclose when detailing the composition of their capital, which set out a framework to ensure that the components of banks capital bases are publicly disclosed in standardised formats across and within jurisdictions for banks subject to Basel III.

Basel III builds on Basel II. It 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. In addition 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.

On 12 January 2018, OSFI announced its decision to update the existing capital floor for institutions using advanced approaches for credit risk and operational risk. The capital floor of 90%, based on the Basel I capital accord was replaced by a more risk-sensitive capital floor based on the standardized approach under Basel II framework, with floor factor set at 75%.

From Q1 2019, disclosure is based on OSFI's Pillar 3 disclosure requirements (April 2017), including Capital disclosure requirement and Leverage ratio disclosure requirement.

This report is unaudited and all amounts are in rounded millions of Canadian dollars, unless otherwise indicated. Balances reported in this Pillar 3 document reflect the OSFI Capital Adequacy Requirements (CAR) guidelines.

Starting 1 January 2019, counterparty credit risk exposures arising from derivatives are calculated under Standardized Approach for Counterparty Credit Risk (SA-CCR), a new BCBS approach adopted by OSFI. Capital requirements for exposures to Central Counterparties (CCPs) have also been revised. The impact of these changes on credit risk RWA, Credit Valuation Adjustment (CVA) RWA and Leverage Ratio is immaterial.

In response to challenges posed by COVID-19 and current market conditions, OSFI announced a number of measures to support the Canadian banks in supplying credit to the economy, maintain stability and public confidence during an expected period of disruption. OSFI lowered the capital floor factor from 75% to 70% effective Q1 2020, which is expected to stay in place until the domestic implementation of the capital floor as part of Basel III reforms in Q1 2023. In addition, transitional arrangement for expected credit loss provisioning have been introduced for a portion of allowances that would otherwise be included in Tier 2 capital to instead be included in Common Equity Tier 1 (CET1) capital. The adjustment is dynamically measured as the increase in Stage 1 and Stage 2 allowances relative to the baseline level as at 31 December 2019, after tax effects and subject to a scaling factor of 70% in 2020, 50% in 2021 and 25% in 2022.

For leverage ratio, central bank reserves and sovereign-issued securities that qualify as High Quality Liquid assets (HQLA) under the Liquidity Adequacy Requirements Guideline can be temporarily excluded from the leverage ratio exposure measure, until 31 December 2021. In Pillar 3 disclosures, banks are expected to separately make available each of the CET1, Tier 1, Total Capital, and Leverage ratios had the transitional arrangement not been applied.

## Road map to Pillar 3 disclosure requirement

Section	Identifier	Table and templates	Frequency	2020 Annua Repor
Capital disclosure	CC1	Composition of Regulatory Capital	Quarterly	
Overview of risk management	OVA	Bank risk management approach	Annually	34-38
	OV1	Overview of RWA	Quarterly	
_inkages between inancial	LI1	Differences between accounting and regulatory scopes of consolidation and mapping of financial statements with regulatory risk categories		
statements and regulatory exposures	LI2	Main sources of differences between regulatory exposure amounts and carrying values in financial statements		
schozarez	LIA	Explanations of differences between accounting and regulatory exposure amounts	na <sup>1</sup>	
Credit risk	CRA	General information about credit risk	Annually	38-39
	CR1	Credit quality of assets	Semi-annually	41
	CR2	Changes in stock of defaulted loans and debt securities	na <sup>1</sup>	
	CRB	Additional disclosure related to the credit quality of assets	Annually	
	CRC	CRC – Qualitative disclosure requirements related to credit risk mitigation techniques	Annually	54
	CR3	Credit risk mitigation techniques – overview	Semi-annually	-
	CRD	Qualitative disclosures on banks' use of external credit ratings under the standardized approach for credit risk	na <sup>1</sup>	
	CR4	Standardized approach - credit risk exposure and Credit Risk Mitigation (CRM) effects	Semi-annually	
	CR5	Standardized approach – exposures by asset classes and risk weights	Semi-annually	
	CRE	Qualitative disclosures related to IRB models	na <sup>1</sup>	
	CR6	IRB Credit risk exposures by portfolio and PD range	Semi-annually	
	CR7	IRB – Effect on RWA of credit derivatives used as CRM techniques	na²	
	CR8	RWA flow statements of credit risk exposures under IRB	Quarterly	
	CR9	IRB – Backtesting of probability of default (PD) per portfolio	na <sup>1</sup>	
	CR10	IRB (specialized lending and equities under the simple risk weight method)	Semi-annually	
Counterparty	CCRA	Qualitative disclosure related to counterparty credit risk	Annually	79-80
credit risk	CCR1	Analysis of counterparty credit risk (CCR) exposure by approach	Semi-annually	70.00
	CCR2	Credit valuation adjustment (CVA) capital charge	Semi-annually	
	CCR3	Standardized approach of CCR exposures by regulatory portfolio and risk weights	na <sup>2</sup>	
	CCR4	IRB – CCR exposures by portfolio and PD scale	Semi-annually	
	CCR5	Composition of collateral for CCR exposure	Semi-annually	
	CCR6	Credit derivatives exposures	na <sup>1</sup>	
	CCR0 CCR7	•	na <sup>2</sup>	
	CCR7 CCR8	RWA flow statements of CCR exposures under the Internal Model Method (IMM)		
		Exposures to central counterparties	Semi-annually	1
Securitization	SECA	Qualitative disclosure requirements related to securitization exposures	_	
	SEC1	Securitization exposures in the banking book	_	
	SEC2	Securitization exposures in the trading book Securitization exposures in the banking book and associated regulatory capital requirements – bank	-	
	SEC4	acting as originator or as sponsor Securitization exposures in the banking book and associated capital requirements – bank acting as investor	– na²	
Aarleat riak	MRA	Qualitative disclosure requirements related to market risk	Annually	
Aarket risk	MRB	Qualitative disclosure requirements related to market risk	Annually	
	MR1	• • • •	Semi-annually	
	MR1 MR2	Market risk under standardised approach	,	
		RWA flow statements of market risk exposures under an IMA	Quarterly	
	MR3	IMA values for trading portfolios	Semi-annually	
	MR4	Comparison of VaR estimates with gains/losses	Semi-annually	
everage Ratio	LR1	Summary comparison of accounting assets vs. leverage ratio exposure measure	Quarterly	_
	LR2	Leverage Ratio Common Disclosure Template	Quarterly	

Non D-SIBs are permitted to adopt and disclose any of the above listed tables that are relevant in reflecting the risks and activities of the institution. We assessed accordingly and decided not to adopt this particular table
 Table does not have any reportable values as at 31st December 2020

#### Table 1 : Composition of Regulatory Capital (CC1)

	le 1 : Composition of Regulatory Capital (CC1)	All-in B	asis <sup>1</sup>
		At	:
	Common Equity Tier 1 capital: instruments and reserves (\$m)	31 Dec 2020	30 Sep 2020
1	Directly issued qualifying common share capital (and equivalent for non-joint stock companies) plus related stock surplus	1,725	1,725
2	Retained earnings	3,808	3,697
3	Accumulated other comprehensive income (and other reserves)	249	270
4	Directly issued capital subject to phase out from CET1 (only applicable to non-joint stock companies)	_	
5	Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)	_	_
6	Common Equity Tier 1 capital before regulatory adjustments	5,782	5,692
	Common Equity Tier 1 capital: regulatory adjustments (\$m)		
28	Total regulatory adjustments to Common Equity Tier 1	(308)	(284)
29	Common Equity Tier 1 capital (CET1)	5,474	5,408
29a	Common Equity Tier 1 capital (CET1) with transitional arrangements for ECL provisioning not applied	5,460	5,354
	Additional Tier 1 capital: instruments		
30	Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	1,100	1,100
31	<ul> <li>of which: classified as equity under applicable accounting standards</li> </ul>	1,100	1,100
32	<ul> <li>of which: classified as liabilities under applicable accounting standards</li> </ul>	_	_
33	Directly issued capital instruments subject to phase out from Additional Tier 1	-	_
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)	_	_
35	of which: instruments issued by subsidiaries subject to phase out	_	
36	Additional Tier 1 capital before regulatory adjustments	1,100	1,100
- 50	Additional Tier 1 capital: regulatory adjustments (\$m)	1,100	1,100
43	Total regulatory adjustments to Additional Tier 1 capital	_	_
44	Additional Tier 1 capital (AT1)	1,100	1,100
45	Tier 1 capital (T1 = CET1 + AT1)	6,574	6,508
45 45a	Tier 1 capital with transitional arrangements for ECL provisioning not applied	6,560	6,454
434	Tier 2 capital: instruments and allowances (\$m)	0,000	0,101
46	Directly issued qualifying Tier 2 instruments plus related stock surplus	1,000	1,000
47	Directly issued capital instruments subject to phase out from Tier 2	11	11
48	(amount allowed in group Tier 2)	-	
49	<ul> <li>– of which: instruments issued by subsidiaries subject to phase out</li> </ul>	_	
50	Impairment allowances	4	4
51	Tier 2 capital before regulatory adjustments	1,015	1,015
	Tier 2 capital: regulatory adjustments (\$m)	.,	.,
57	Total regulatory adjustments to Tier 2 capital	_	
58	Tier 2 capital (T2)	1,015	1,015
59	Total capital (TC = T1 + T2)	7,589	7,523
59a	Total capital with transitional arrangements for ECL provisioning not applied	7,589	7,523
60	Total risk-weighted assets (RWA)	40,014	41,376
61	Common Equity Tier 1 (as percentage of risk-weighted assets)	13.7	13.1
61a	Common Equity Tier 1 with transitional arrangements for ECL provisioning not applied	13.6	12.9
62	Tier 1 (as percentage of risk-weighted assets)	16.4	15.7
62a	Tier 1 with transitional arrangements for ECL provisioning not applied	16.4	15.6
63	Total capital (as percentage of risk-weighted assets)	19.0	18.2
63a	Total capital with transitional arrangements for ECL provisioning not applied	19.0	18.2
	OSFI all-in target (%)		
69	Common Equity Tier 1 capital all-in target ratio	7.0	7.0
70	Tier 1 capital all-in target ratio	8.5	8.5
71	Total capital all-in target ratio	10.5	10.5
	(only applicable between 1 Jan 2013 and 1 Jan 2022)		
80	Current cap on CET1 instruments subject to phase out arrangements	20	20
81	Amounts excluded from CET1 due to cap (excess over cap after redemptions and maturities)	na	na
82	Current cap on AT1 instruments subject to phase out arrangements	20	20
83	Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities)	_	-
84	Current cap on T2 instruments subject to phase out arrangements	20	20
	Amounts excluded from T2 due to cap (excess over cap after redemptions and maturities)	_	_

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

#### Table 2 : Overview of Risk Weighted Assets (OV1)

			At	
		31 Dec 2020	30 Sep 2020	31 Dec 2020
		RWA <sup>1</sup>	RWA	Capital requirements <sup>2</sup>
		\$m	\$m	\$m
1	Credit risk (excluding counterparty credit risk)	33,812	34,977	2,705
2	<ul> <li>of which Standardized approach (SA) <sup>3</sup></li> </ul>	1,549	1,594	124
3	<ul> <li>of which internal rating based (IRB) approach</li> </ul>	32,263	33,383	2,581
4	Counterparty credit risk	1,697	1,866	136
4a	<ul> <li>of which credit valuation adjustment (CVA)<sup>4</sup></li> </ul>	496	586	40
5	<ul> <li>of which Standardized approach for counterparty credit risk (SA-CCR)</li> </ul>	1,201	1,280	96
6	<ul> <li>of which internal model method (IMM)</li> </ul>	-	-	-
7	Equity positions in banking book <sup>5</sup>	2	4	-
8	Equity investments in funds – look-through approach	18	17	1
9	Equity investments in funds – mandate-based approach	-	-	-
10	Equity investments in funds – fall-back approach	-	-	-
11	Settlement risk	-	-	-
12	Securitisation exposures in banking book	-	-	-
13	<ul> <li>of which IRB ratings based approach (RBA)</li> </ul>	-	-	-
14	<ul> <li>of which IRB supervisory formula approach (SFA)</li> </ul>	_	_	_
15	<ul> <li>of which SA/ simplified supervisory formula approach (SSFA)</li> </ul>	_	_	-
16	Market risk	694	697	56
17	<ul> <li>of which Standardized approach (SA)</li> </ul>	75	111	6
18	<ul> <li>of which internal model method (IMM)</li> </ul>	619	586	50
19	Operational risk	3,791	3,815	303
20	<ul> <li>of which Basic indicator approach</li> </ul>	-	-	-
21	<ul> <li>of which Standardized approach</li> </ul>	3,791	3,815	303
22	<ul> <li>of which Advanced measurement approach</li> </ul>	_	_	_
23	Amounts below the thresholds for deduction (subject to 250% risk weight)			_
24	Floor adjustment <sup>6</sup>	-	-	_
25	Total RWA (1+4+7+8+9+10+11+12+16+19+23+24)	40,014	41,376	3,201

RWA includes 6% adjustment to IRB risk-weighted assets for scaling factor
 'Capital requirement' represents the minimum total capital charge set at 8% of RWAs by the OSFI Capital Adequacy Requirements (CAR) guidelines

3. Amount includes Other assets not included in standardized or IRB approaches

4. Starting Q1 2019, OSFI has allowed a 0.7 scalar to be applied to the exposure amount determined under SA-CCR for the purpose of calculating CVA

Amount includes banking book equity exposure which are not material and risk weighted @100% in accordance with OSFI CAR guidelines
 The Bank is subject to a regulatory capital floor prescribed by OSFI

## **Credit Risk**

Credit risk is the risk of financial loss if a customer or counterparty fails to meet an obligation under contract. Credit risk arises principally from direct lending, trade finance and the leasing business, but also from other products such as guarantees and credit derivatives.

#### Table 3 : Credit quality of assets (CR1)

		a	b	C	d
		Gross carrying	values of		
		Defaulted exposures	Non - defaulted exposures	Allowances/ impairments	Net values (a+b-c)
		\$m	\$m	\$m	\$m
1	Debt securities	—	19,920	1	19,919
2	Loans	467	81,840	449	81,858
3	Off-balance sheet exposures	103	50,102	55	50,150
4	Total at 31 Dec 2020	570	151,862	505	151,927
1	Debt securities	_	23,689	1	23,688
2	Loans	334	66,448	272	66,510
3	Off-balance sheet exposures	89	48,086	27	48,148
4	Total at 31 Dec 2019	423	138,223	300	138,346

Table 4 : Concentration of exposures	by industry or counter	party types (CRB-	4)						
		31 Dec 2020			31 Dec 2019				
	Gross Carrying Value	Exposure at Default	RWA	Gross Carrying Value	Exposure at Default	RWA			
	\$m	\$m	\$m	\$m	\$m	\$m			
Corporate	72,816	50,275	28,166	74,033	52,077	27,661			
– Agriculture	1,930	1,376	711	2,347	1,745	864			
- Automotive	2,432	1,762	1,127	2,498	1,961	1,096			
<ul> <li>Business Service Industry</li> </ul>	2,752	2,074	1,061	2,862	2,255	1,106			
<ul> <li>Construction related industry</li> </ul>	5,029	2,846	1,676	4,798	2,919	1,825			
– Energy	8,871	5,549	3,745	8,900	5,620	3,403			
<ul> <li>Finance &amp; Insurance industry</li> </ul>	4,400	2,836	1,229	4,350	2,511	1,215			
- Hotel & Accommodation	1,879	1,710	1,023	1,815	1,608	737			
- Individuals	200	151	127	200	155	105			
- Manufacturing	10,894	7,073	4,546	10,883	7,538	4,709			
<ul> <li>Mining, Logging And Forestry</li> </ul>	2,435	1,421	952	2,608	1,617	1,133			
- Other Service	4,050	3,095	1,860	4,132	3,206	1,542			
- Real Estate	16,136	12,457	5,441	16,404	12,269	5,178			
- Retail Trade	1,763	1,239	625	1,881	1,368	721			
<ul> <li>Transportation And Storage</li> </ul>	3,626	2,669	1,755	4,200	3,125	1,727			
<ul> <li>Wholesale trade</li> </ul>	6,419	4,017	2,288	6,155	4,180	2,300			
Sovereign	34,681	33,643	281	21,836	20,991	493			
Bank	5,153	4,724	370	5,567	5,298	381			
Total Corporate, Sovereign and Bank	112,650	88,642	28,817	101,436	78,366	28,535			
Residential Mortgages	28,635	28,632	2,420	26,277	26,278	2,027			
HELOC's	5,453	2,651	574	5,442	2,770	535			
Other Retail (excluding QRR and SME)	4,210	1,278	541	4,033	1,399	552			
Qualifying Revolving Retail (QRR)	1,095	366	140	1,069	397	152			
Retail SME	389	388	232	389	388	275			
Total Retail	39,782	33,315	3,907	37,210	31,232	3,541			
Total Gross Credit Exposure <sup>1</sup>	152,432	121,957	32,724	138,646	109,598	32,076			

#### Table 5 : Residual maturity breakdown of exposures (CRB-B)

		31 Dec 2020			31 Dec 2019	
	Gross Carrying Value	Exposure at Default	RWA	Gross Carrying Value	Exposure at Default	RWA
	\$m	\$m	\$m	\$m	\$m	\$m
Within 1 year	65,371	50,925	12,593	49,608	36,890	12,257
1-5 years	76,833	64,989	17,989	73,378	61,201	17,257
Greater than 5 years	10,228	6,043	2,142	15,660	11,507	2,562
No specific maturity	_	-	_	_	_	_
Total Gross Credit Exposure <sup>1</sup>	152,432	121,957	32,724	138,646	109,598	32,076

## Table 6 : Geographical breakdown<sup>2</sup> of exposures (CRB-C)

		31 Dec 2020			31 Dec 2019	
	Gross Carrying Value	Exposure at Default	RWA	Gross Carrying Value	Exposure at Default	RWA
	\$m	\$m	\$m	\$m	\$m	\$m
Canada	138,088	110,792	29,986	123,419	97,158	29,238
United States of America	5,870	4,242	1,428	6,005	4,570	1,518
United Kingdom	425	285	127	446	326	143
Other countries	8,049	6,638	1,183	8,776	7,544	1,177
Total Gross Credit Exposure <sup>1</sup>	152,432	121,957	32,724	138,646	109,598	32,076

Gross carrying value of the exposure and excludes 'Other Assets.
 Amounts shown by geographical region and country in this table are based on the country of residence of the counterparty.

#### Table 7 : Credit risk mitigation techniques - overview (CR3)

	Exposures unsecured: carrying amount	Exposures secured: carrying amount <sup>2</sup>	Exposures secured by collateral	Exposures secured by guarantees / credit derivatives
	\$m	\$m	\$m	\$m
1 Loans	23,659	58,648	57,589	1,059
2 Debt securities	8,471	11,449	11,449	-
3 Total at 31 Dec 2020 <sup>1</sup>	32,130	70,097	69,038	1,059
4 Of which defaulted	65	402	400	2
1 Loans	8,712	58,070	57,358	712
2 Debt securities	12,221	11,468	11,468	-
3 Total at 31 Dec 2019 <sup>1</sup>	20,933	69,538	68,826	712
4 Of which defaulted	82	252	251	1

Amount equals to the carrying value gross of allowances.
 Amount represents the gross carrying value of the exposure secured (fully or partially by either collateral or guarantees)

#### Table 8 : Standardized approach - credit conversion factor ('CCF') and credit risk mitigation ('CRM') effects (CR4)

		Exposures l and (		Exposures and C		RWA and RWA density		
		On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWAs	RWA density	
		\$m	\$m	\$m	\$m	\$m	%	
	Asset classes							
1	Sovereigns and their central banks	-	-	-	-	-	-	
6	Corporates	461	502	461	-	200	43	
7	Regulatory Retail Portfolios	349	2,454	347	-	261	75	
10	Equity	-	-	-	-	-	_	
13	Other assets <sup>2</sup>	1,761	-	1,761	-	1,088	62	
14	Total at 31 Dec 2020	2,571	2,956	2,569	-	1,549	60	
1	Sovereigns and their central banks	_	-	_	_	_	_	
6	Corporates	420	550	420	_	351	84	
7	Regulatory Retail Portfolios	407	2,168	405	_	305	75	
10	Equity	_	_	_	_	_	_	
13	Other assets <sup>2</sup>	1,837	-	1,837	_	1,005	55	
14	Total at 31 Dec 2019	2,664	2,718	2,662	_	1,661	62	

1. CCF - Credit Conversion Factor, CRM - Credit Risk Mitigation.

Comprises exposures subject to credit risk framework but are not included in standardized or IRB approaches including settlement risk and other balance sheet assets that are risk-weighted at 100%.

Table 9: Standardized approach - exposures by asset class and risk weight (CR5)

	Risk weight ('RW') %	0	20	50	75	100	150	250	Total credit exposure amount (post-CCF and post- CRM)
		\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
	Asset classes								
1	Sovereigns and their central banks	_	_	_	_	_	_	_	_
6	Corporates	138	153	-	_	170	_	_	461
7	Regulatory Retail Portfolios	-	_	-	346	1	_	_	347
10	Equity	-	-	-	_	-	-	-	-
13	Other assets	660	242	_	_	738	_	121	1,761
14	Total at 31 Dec 2020	798	395	-	346	909	-	121	2,569
1	Sovereigns and their central banks	_	_	_	_	_	_	_	_
6	Corporates	_	87	_	_	333	_	-	420
7	Regulatory Retail Portfolios	_	_	_	403	2	_	-	405
10	Equity	_	_	_	_	-	_	_	-
13	Other assets	764	201	_	_	810	_	62	1,837
14	Total at 31 Dec 2019	764	288	_	403	1,145	_	62	2,662

	Original on- balance sheet gross exposure	Off- balance sheet exposure pre-CCF	Average CCF	EAD post-CRM and post- CCF	Average PD	Number of obligors	Average LGD	Average maturity	RWA	RWA density	Expected loss	Provisions
PD scale	\$m	\$m	%	\$m	%		%	years	\$m	%	\$m	\$m
Sovereign												
0.00 to <0.15	32,925	1,747	41	33,639	0.01	95	8.0	1.65	279	0.8	0.3	0.9
0.15 to <0.25	-	4	41	2	0.22	3	41.1	0.98	1	50.0	-	_
0.25 to <0.50	-	-	-	-	-	-	-	-	-	-	-	_
0.50 to <0.75	-	-	-	-	-	-	-	-	-	_	-	_
0.75 to <2.50	-	5	41	2	1.51	2	13.2	1.00	1	50.0	-	_
2.50 to <10.00	-	-	-	-	-	-	-	-	-	-	-	_
10.00 to <100.00	-	-	-	-	-	-	-	-	-	_	-	_
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	_
Sub-total	32,925	1,756	41	33,643	0.01	100	8.0	1.65	281	0.8	0.3	0.9
Banks												
0.00 to <0.15	3,843	1,264	67	4,695	0.06	167	18.7	1.24	358	7.6	0.6	0.2
0.15 to <0.25	18	16	22	22	0.22	11	31.6	0.15	5	22.7	-	-
0.25 to <0.50	4	1	20	4	0.37	3	35.0	0.23	2	50.0	-	_
0.50 to <0.75	_	5	20	1	0.63	4	55.2	0.66	1	100.0	-	_
0.75 to <2.50	_	-	-	-	-	-	-	-	-	-	-	_
2.50 to <10.00	2	-	-	2	4.16	4	67.4	1.12	4	200.0	-	0.1
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	_
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	_
Sub-total	3,867	1,286	67	4,724	0.06	189	18.8	1.23	370	7.8	0.6	0.3
Corporate – SME												
0.00 to <0.15	390	712	48	728	0.10	121	35.5	1.67	114	15.7	0.3	0.2
0.15 to <0.25	737	933	42	1,131	0.22	617	31.2	1.57	265	23.4	0.8	0.5
0.25 to <0.50	998	873	41	1,358	0.37	609	31.2	1.78	446	32.8	1.6	1.4
0.50 to <0.75	1,418	1,261	41	1,935	0.63	661	30.2	1.72	805	41.6	3.7	4.4
0.75 to <2.50	4,381	2,478	42	5,422	1.28	1,705	31.5	1.77	3,063	56.5	22.0	21.0
2.50 to <10.00	1,079	604	42	1,335	5.12	601	30.3	1.67	1,111	83.2	20.6	15.1
10.00 to <100.00	268	187	44	350	21.71	152	29.0	1.42	378	108.0	22.3	12.6
100.00 (Default)	210	26	41	221	100.00	82	46.0	1.45	290	131.2	97.5	98.5
Sub-total	9,481	7,074	42	12,480	3.65	4,548	31.5	1.71	6,472	51.9	168.8	153.7
Corporate – Other												
0.00 to <0.15	2,718	8,830	43	6,564	0.08	382	45.0	1.75	1,415	21.6	2.3	4.5
0.15 to <0.25	2,658	4,217	44	4,483	0.22	388	38.9	1.72	1,629	36.3	3.8	3.8
0.25 to <0.50	3,038	4,050	42	4,791	0.37	365	35.0	1.58	2,023	42.2	6.2	6.7
0.50 to <0.75	5,466	4,208	42	7,236	0.63	694	33.7	1.68	3,932	54.3	15.3	20.7
0.75 to <2.50	7,259	7,684	42	10,500	1.28	1,153	35.3	1.76	7,836	74.6	47.7	57.6
2.50 to <10.00	1,712	1,501	44	2,345	4.65	333	39.3	1.80	2,975	126.9	41.6	40.8
10.00 to <100.00	618	537	44	867	13.58	91	33.2	1.47	1,304	150.4	42.3	58.1
100.00 (Default)	90	57	43	114	100.00	22	50.7	1.36	115	100.9	58.8	59.0
Sub-total	23,559	31,084	43	36,900	1.50	3,428	37.4	1.71	21,229	57.5	218.0	251.2
Wholesale AIRB - Total at 31 Dec 2020	69,832	41,200	43	87,747	1.16	8,265	24.6	1.66	28,352	32.3	387.7	406.1

## Table 10: IRB – Credit risk exposures by portfolio and PD range (CR6) (continued)

PD scale	Original on- balance sheet gross exposure \$m	Off- balance sheet exposure pre-CCF \$m	Average CCF %	EAD post-CRM and post- CCF \$m	Average PD %	Number of obligors	Average LGD %	Average maturity years	RWA \$m	RWA density %	Expected loss \$m	Provisions \$m
Retail Residential Mortgages												
0.00 to <0.15	16,975	2	-	16,975	0.06	40,332	17.3	-	519	3.1	1.8	8.5
0.15 to <0.25	5,247	1	-	5,247	0.19	10,725	18.6	-	392	7.5	1.8	4.4
0.25 to <0.50	3,272	-	-	3,272	0.32	6,039	17.1	-	338	10.3	1.8	2.7
0.50 to <0.75	1,068	-	-	1,068	0.55	2,057	18.3	-	172	16.1	1.1	1.2
0.75 to <2.50	1,350	_	_	1,350	1.59	2,516	17.3	_	409	30.3	3.7	2.6
2.50 to <10.00 10.00 to <100.00	478 198	_	-	478 198	4.72	1,055 388	17.0 17.0		270	56.5 104.0	3.8	<u>6.7</u> 4.0
100.00 (Default)	44			44	100.00	158	17.0		114	259.1	- 0.7	13.2
Sub-total	28,632	3	_	28,632	0.62	63,270	17.6	_	2,420	8.5	22.7	43.3
HELOC				/					_,			
0.00 to <0.15	4	-	_	4	0.06	22	15.1	_	-	-	-	-
0.15 to <0.25	4	_	_	4	0.23	12	23.1	_	-	_	_	-
0.25 to <0.50	741	2,833	26	1,489	0.39	17,987	18.1	-	186	12.5	1.0	0.3
0.50 to <0.75	124	321	30	219	0.53	1,399	16.2	-	31	14.2	0.2	0.1
0.75 to <2.50	480	648	35	703	1.06	5,735	18.3	-	174	24.8	1.3	0.4
2.50 to <10.00 10.00 to <100.00	153 30	86	36 60	184 31	4.19	1,153 160	17.8 18.8	-	101 36	54.9 116.1	1.4 1.6	2.3
100.00 (Default)	17	10		17	100.00	110	20.3		46	270.6	0.1	1.0
Sub-total	1,553	3,900	28	2,651	1.81	26,578	18.0		574	270.0	5.6	5.3
Retail Qualifying revolving exposures												
0.00 to <0.15	-	-	-	-	-	-	-	-	-	-	-	-
0.15 to <0.25	-	-	-	-	-	-	-	-	-	-	-	-
0.25 to <0.50	47	690	19	179	0.31	40,748	54.0	-	16	8.9	0.3	0.8
0.50 to <0.75	-	-	-	-	-	40.444	-	-	-	-	-	-
0.75 to <2.50 2.50 to <10.00	62 48	172 53	26 37	106 68	1.16 4.17	16,414 6,348	67.6 71.7	-	33 55	31.1 55.0	0.8	1.6 5.8
10.00 to <100.00	40	10	37	11	24.45	1,039	69.5		22	200.0	1.8	2.2
100.00 (Default)	2	3		2	100.00	266	67.6	_	14	700.0	0.1	1.2
Sub-total	167	928	21	366	2.44	64,815	61.8	_	140	38.3	5.0	11.6
Retail SME												
0.00 to <0.15	-	-	_	_	-	_	-	-	-	-	-	-
0.15 to <0.25	-	-	-	-	-	-	-	-	-	-	-	-
0.25 to <0.50	-	_	_		_		_	-	_		_	-
0.50 to <0.75	128	138	100 99	266	0.64	1,828	52.1	_	118 67	44.4	0.9	4.8
0.75 to <2.50 2.50 to <10.00	62 10	28 15	99	90 24	2.23	655 618	53.1 39.8		16	74.4	1.1 0.7	3.0 0.3
10.00 to <100.00	4	13	99	5	23.20	319	45.6		5	100.0	0.5	0.3
100.00 (Default)	3		-	3	100.00	292	61.2	_	26	866.7	0.1	2.1
Sub-total	207	182	100	388	2.55	3,712	51.6	_	232	59.8	3.3	10.9
Retail Other												
0.00 to <0.15	71	-	-	71	0.11	390	51.3	-	11	15.5	-	0.2
0.15 to <0.25	-	-	-	-	-	-	-	-	-	-	-	-
0.25 to <0.50	144	467	25	259	0.26	10,594	27.1	-	37	14.3	0.2	0.4
0.50 to <0.75	425	121	34	466	0.53	8,579	48.8	-	176	37.8	1.2	1.1
0.75 to <2.50 2.50 to <10.00	52 33	<u>58</u> 9	36 44	73 36	1.49 3.38	1,272 798	23.2		21 13	28.8 36.1	0.2	0.2
10.00 to <100.00	21	9 4	88	25	22.45	5,164	30.7		13	68.0	1.9	3.0
100.00 (Default)	1	4		25	100.00	2,250	26.9		5	500.0	0.3	0.7
Sub-total	747	660	28	931	1.34	29,047	39.4	_	280	30.1	4.1	6.1
Total Retail at 31 Dec 2020	31,306	5,673	29	32,968	0.78	187,422	19.1	_	3,646	11.1	40.7	77.2

## Table 10: IRB – Credit risk exposures by portfolio and PD range (CR6) (continued)

	Original on- balance sheet gross exposure	Off-balance sheet exposure pre-CCF	Average CCF	EAD post- CRM and post-CCF	Average PD	Number of obligors	Average LGD	Average maturity	RWAs	RWA density	Expected loss	Provisions
PD scale	\$m	\$m	%	\$m	%		%	years	\$m	%	\$m	\$m
Sovereign												
0.00 to <0.15	20,401	1,427	41	20,987	0.02	86	7.0	3.31	491	2.3	0.3	0.8
0.15 to <0.25	-	5	41	2	0.22	5	39.0	1	1	29.2	-	
0.25 to <0.50	_	-	-	-	-	-	-	-	-	-	-	-
0.50 to <0.75	1	-	41	1	0.63	5	39.5	2.57	1	72.5	-	-
0.75 to <2.50	_	2	47	1	1.12	4	17.1	0.82	-	29.1	_	
2.50 to <10.00	-	-	-	-	-	_	-	-	-	-	-	
10.00 to <100.00	-	-	-	-	-	_	-	-	-	-	-	
100.00 (Default)	_	-	-	-	-	-	-	-	-	-	-	-
Sub-total	20,402	1,434	43	20,991	0.02	100	7.0	3.31	493	2.3	0.3	0.8
Banks												
0.00 to <0.15	4,466	1,086	76	5,287	0.05	168	17.7	1.48	375	7.1	0.6	0.14
0.15 to <0.25	4	1	20	4	0.22	12	34.2	0.1	1	24.6	_	
0.25 to <0.50	3	-	20	3	0.37	3	35.0	0.27	1	39.2	_	
0.50 to <0.75	_	3	20	1	0.63	3	35.0	0.11	-	51.5	_	
0.75 to <2.50	1	2	20	2	1.00	8	49.0	0.19	2	91.3	_	
2.50 to <10.00	1	-	-	1	5.75	1	55.8	2.5	2	246.4	_	
10.00 to <100.00	-	-	-	-	-	_	-	-	-	_	-	_
100.00 (Default)	-	-	_	-	-	_	_	_	_	_	_	
Sub-total	4,475	1,092	76	5,298	0.05	195	17.7	1.48	381	7.2	0.6	0.1
Corporate – SME												
0.00 to <0.15	170	388	41	331	0.10	110	37.3	1.77	58	17.5	0.1	0.1
0.15 to <0.25	1,318	964	42	1,719	0.22	742	30.8	1.86	433	25.2	1.2	0.4
0.25 to <0.50	1,475	1,004	41	1,888	0.37	814	31.3	1.94	653	34.6	2.2	1.2
0.50 to <0.75	1,962	1,572	43	2,630	0.63	739	31.1	1.87	1,175	44.7	5.1	2.3
0.75 to <2.50	4,141	2,261	44	5,124	1.21	1,663	31.2	1.79	2,837	55.4	19.4	6.9
2.50 to <10.00	1,028	510	42	1,242	4.59	524	30.0	1.62	988	79.5	17.0	9.0
10.00 to <100.00	266	129	42	321	20.33	130	29.7	1.64	363	113.1	19.8	11.7
100.00 (Default)	149	21	42	158	100.00	68	54.5	1.19	199	126.2	92.8	92.7
Sub-total	10,509	6,849	42	13,413	2.80	4,790	31.4	1.81	6,706	50.0	157.6	124.3
Corporate – Other												
0.00 to <0.15	3,614	10,221	43	7,999	0.08	433	46.1	1.98	1,903	23.8	2.9	1.6
0.15 to <0.25	3,651	4,165	44	5,488	0.22	473	36.7	1.98	2,019	36.8	4.4	2.0
0.25 to <0.50	5,020	4,912	43	7,136	0.37	489	36.1	1.92	3,311	46.4	9.5	6.7
0.50 to <0.75	5,003	3,833	43	6,645	0.63	465	34.5	1.82	3,812	57.4	14.4	7.1
0.75 to <2.50	5,965	4,968	42	8,067	1.22	1,233	36.0	1.93	6,211	77.0	35.3	23.4
2.50 to <10.00	1,108	1,819	42	1,880	4.67	245	34.6	1.51	2,047	108.9	30.0	13.5
10.00 to <100.00	415	324	42	551	13.36	67	33.0	1.34	801	145.4	25.0	23.1
100.00 (Default)	124	56	46	150	100.00	22	33.5	1.35	209	139.3	38.5	34.0
Sub-total	24,900	30,298	43	37,916	1.30	3,427	37.9	1.89	20,313	53.6	160.0	111.4
Wholesale AIRB - Total at 31 Dec 2019	60,286	39,673	44	77,618	1.13	8,512	27.0	2.23	27,893	35.9	318.5	236.6

	Original on- balance sheet gross exposure	Off- balance sheet exposure pre-CCF	Average CCF	EAD post- CRM and post-CCF	Average PD	Number of obligors	Average LGD	Average maturity	RWAs	RWA density	Expected loss	Provisions
PD scale	\$m	\$m	%	\$m	%	obligoto	%	years	\$m	%	\$m	\$m
Retail Residential Mortgages	10.040			10.047	0.00	00.005	177		F 0 7	0.0	1.0	
0.00 to <0.15 0.15 to <0.25	16,846 5,193	1		16,847 5,194	0.06	39,895 9,928	17.7		507 389	3.0	1.8 1.8	3.0
0.25 to <0.50	1,783			1,783	0.13	3,622	16.8		179	10.1	1.0	1.2
0.50 to <0.75	1,073		_	1,073	0.57	1,994	18.1		176	16.4	1.0	0.4
0.75 to <2.50	911	_	_	911	1.98	2,073	17.3	_	324	35.5	3.1	0.8
2.50 to <10.00	267	_	_	267	5.29	692	17.3	_	166	62.1	2.4	0.5
10.00 to <100.00	158	-	-	158	25.66	388	16.7	-	162	103.0	6.7	8.0
100.00 (Default)	45	-	_	45	100.00	143	20.8	_	124	273.9	0.1	8.4
Sub-total	26,276	1	_	26,278	0.60	58,735	17.8	_	2,027	7.7	18.0	23.6
HELOC												
0.00 to <0.15	6	_	_	6	0.06	35	18.0	_	_	3.1	_	
0.15 to <0.25	4	_	_	4		19	18.1	-	_	7.4	_	
0.25 to <0.50	1,086	3,241	28	1,988	0.38	20,635	17.7	_	240	12.0	1.4	0.8
0.50 to <0.75	-	_	-	_	-	_	-	_	-	-		
0.75 to <2.50	406	492	37	586	1.10	4,591	18.5	_	148	25.3	1.2	1.0
2.50 to <10.00	134	17	37	140	4.76	811	18.1	-	87	61.7	1.2	0.7
10.00 to <100.00	40	3	47	41	27.36	172	18.0		46	111.5	2.0	0.8
100.00 (Default)	5	8		5		85	19.6	_	14	257.4	-	0.4
Sub-total	1,681	3,761	30	2,770	1.40	26,348	17.9	_	535	19.3	5.8	3.7
Retail Qualifying revolving 0.00 to <0.15	05	007		200	0.01	40.150	<b>F70</b>		10	0.4	0.0	0.0
0.00 to <0.15	65 70	667 146	20 28	200	0.31	40,153	57.2 69.4		19 35	9.4	0.3	0.6
0.15 to <0.25		- 140			-	- 10,739	- 03.4		- 30		0.9	-
0.50 to <0.75	_	_	_	_					_	_	_	
0.75 to <2.50	_	_	_	_	_	_	_	_	_	_	_	
2.50 to <10.00	55	46	39	73	4.29	6,311	72.1	_	61	83.6	2.3	5.9
10.00 to <100.00	8	8	33	10	23.61	886	69.9	_	21	197.7	1.7	1.8
100.00 (Default)	2	2	_	2	100.00	285	68.3	_	17	889.7	-	1.1
Sub-total	200	869	23	397	2.40	63,374	63.7		152	38.4	5.2	11.1
Retail SME												
0.00 to <0.15	_	_	_	_	_	_	_	_	_	_	_	_
0.15 to <0.25	_	_	_	_	_	_	_	_	_	_	_	
0.25 to <0.50	_	_	_	_	_	_	_	_		_	_	
0.50 to <0.75	21	128	100	148	0.71	1,292	45.6		61	41.3	0.5	
0.75 to <2.50	150	39	99	190		1,193	57.9	_	153	80.6	2.4	0.8
2.50 to <10.00	17	22	97	38		750	40.0	_	25	66.4	1.1	0.7
10.00 to <100.00	7	2	99	9		331	48.2	-	11	118.5	1.0	0.2
100.00 (Default)	3	_	_	3		363	71.5	_	25	940.9	0.1	1.5
Sub-total	198	191	100	388	3.30	3,929	51.3	_	275	70.9	5.1	3.2
Retail Other					0.00	0,020	0110		270		0.1	
	100			100	0.10	000	04.0		10	0.0	0.1	
0.00 to <0.15	162	1	-	162	0.10	630	34.0		16	9.9	0.1	0.3
0.15 to <0.25								_	-			
0.25 to <0.50	198	486	28	332		10,691	24.4		42	12.7	0.3	0.2
0.50 to <0.75	338	105	33	372		7,373	47.3		137	36.8	0.9	2.0
0.75 to <2.50	33	44	34	48	1.49	934	23.4	_	14	29.1	0.2	0.2
2.50 to <10.00	47	18	41	55	3.32	971	21.8	_	18	32.9	0.4	0.2
10.00 to <100.00	20	5	75	24	21.60	6,177	33.3	_	17	72.6	1.9	2.2
100.00 (Default)	1	-	-	1	100.00	2,732	32.5	_	3	398.5	0.4	0.1
Sub-total	799	659	31	994	1.20	29,508	34.6	_	247	24.9	4.2	5.2
Total Retail at 31 Dec 2019	29,154	5,481	30	30,827	0.72	181,894	19.3	_	3,236	10.5	38.3	46.8

#### Table 11 : RWA flow statements of credit risk exposures under the IRB approach (CR8)

		RWA <sup>2</sup>	Capital requirements <sup>3</sup>
		\$m	\$m
1	RWA at the beginning of the period - 1 Oct 2020	33,383	2,671
2	Asset size <sup>1</sup>	(698)	(56)
3	Asset quality	(422)	(34)
4	Model updates	-	-
5	Methodology and policy	-	-
6	Acquisitions and disposals	-	-
7	Foreign exchange movements	-	-
8	Other	-	-
9	RWA at the end of the period - 31 Dec 2020	32,263	2,581

1.

2. 3.

Foreign exchange movements are embedded in the asset size RWA includes 6% adjustment to IRB risk-weighted assets for scaling factor 'Capital requirement' represents the minimum total capital charge set at 8% of RWAs under the OSFI CAR guidelines

#### Table 12: Specialized lending on slotting approach and Equities under simple risk-weight method (CR10)

					Specialized	d Lending -	Other than	HVCRE <sup>2</sup>			
		On- balance sheet amount	Off- balance sheet amount	Risk weight		Ехро	sure amou	nt			Expected
Demilater					PF <sup>2</sup>	OF	CF	IPRE	Total	RWA <sup>3</sup>	loss
Regulatory categories <sup>1</sup>	Regulatory maturity	\$m	\$m	%	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Strong	Less than 2.5 years	_	_	50	_	-	-	-	-	-	_
	Equal to or more than 2.5 years	178	303	70	302	-	-	-	302	211	1
Good	Less than 2.5 years	_	_	70	_	-	_	_	-	_	-
	Equal to or more than 2.5 years	1	-	90	-	-	-	1	1	1	-
Satisfactory		5	69	115	28	-	-	5	33	38	1
Weak		_	_	250	-	-	-	-	-	-	_
Default		95	4	0	98	-	-	-	98	-	49
	Total at 31 Dec 2020	279	376		428	-	-	6	434	250	51
Strong	Less than 2.5 years	—	_	50	-	-	-	-	_	-	_
	Equal to or more than 2.5 years	108	294	70	228	-	-	5	228	160	1
Good	Less than 2.5 years	_	_	70	-	-	-	_	_	_	-
	Equal to or more than 2.5 years	—	_	90	_	-	-	-	—	_	—
Satisfactory		94	11	115	95	-	_	_	100	115	3
Weak		-	-	250	_	-	_	-	_	_	-
Default		-	-	0	_	-	_	-	_	_	-
	Total at 31 Dec 2019	202	305		323	-	_	5	328	275	4

Regulatory categories are defined under paragraph 88 of OSFI CAR guidelines
 HVCRE: High-volatility commercial real estate, PF: Project finance, OF: Object finance, CF: Commodities finance & IPRE: Income producing real estate
 RWAs are pre 6% adjustment to IRB risk-weighted assets for scaling factor

# **Counterparty Credit Risk (CCR)**

Counterparty credit risk ('CCR') arises for derivatives and SFTs. It is calculated in both trading and non-trading books, and is the risk that a counterparty may default before settlement of the transaction. CCR is generated primarily in our wholesale global businesses.

#### Table 13: Analysis of counterparty credit risk exposure by approach (excluding CVA Charge & centrally cleared exposures)- CCR1

		Replacement cost	Potential future exposure	Effective expected positive exposure (EEPE)	Alpha used for computing regulatory EAD (Multiplier)	EAD post CRM	post-CRM RWAs
		\$m	\$m	\$m		\$m	\$m
1	SA-CCR (for derivatives)	752	1,196	-	1.4	2,727	1,164
2	Internal Model Method (for derivatives and SFTs)	-	_	-	-	-	-
3	Simple Approach for credit risk mitigation (for SFTs)	-	-	-	-	-	-
4	Comprehensive Approach for credit risk mitigation (for SFTs)	_	_	-	_	300	30
5	VaR for SFTs	-	_	-	-	-	-
6	Total at 31 Dec 2020	752	1,196	_	1.4	3,027	1,194
1	SA-CCR (for derivatives)	631	1,429	_	1.4	2,885	1,155
2	Internal Model Method (for derivatives and SFTs)	_	_	_	_	-	_
3	Simple Approach for credit risk mitigation (for SFTs)	-	-	_	_	_	_
4	Comprehensive Approach for credit risk mitigation (for SFTs)	_	_	_	_	165	34
5	VaR for SFTs	-	-	_	-	-	-
6	Total at 31 Dec 2019	631	1,429	_	1.4	3,050	1,189

#### Table 14: Credit valuation adjustment (CVA) capital charge (CCR2)

		At 31 Dec 2	2020	At 31 Dec 20	)19
		EAD post- CRM	RWA	EAD post- CRM	RWA
		\$m	\$m	\$m	\$m
1	Total portfolios subject to the Advanced CVA capital charge	-	-	-	
2	<ul> <li>VaR component (including the 3 × multiplier)</li> </ul>	-	-	-	
3	<ul> <li>Stressed VaR component (including the 3 × multiplier)</li> </ul>	-	-	_	
4	All portfolios subject to the Standardized CVA capital charge	1,909	496	2,019	547
5	Total subject to the CVA capital charge	1,909	496	2,019	547

1. OSFI has allowed a 0.7 scalar to be applied to the exposure amount determined under SA-CCR for the purpose of calculating CVA.

#### Table 15: CCR exposures by portfolio and PD scale (CCR4)

PD scale	EAD post- CRM	Average PD	Number of obligors	Average LGD	Average maturity	RWA	RWA density
	\$m	%		%	years	\$m	%
Sovereign							
0.00 to <0.15	229	0.02	57	10.0	0.60	2	0.9
0.15 to <0.25	-	-	-	-	-	-	-
0.25 to <0.50	-	-	-	-	-	-	-
0.50 to <0.75	-	-	-	-	-	-	-
0.75 to <2.50	-	-	-	-	-	-	-
2.50 to <10.00	-	-	-	-	-	-	-
10.00 to <100.00	-	-	_	_	_	-	-
100.00 (Default)	-	-	_	_	_	-	-
Sub-total	229	0.02	57	10.0	0.60	2	0.9
Banks							
0.00 to <0.15	842	0.04	35	27.7	0.46	48	5.7
0.15 to <0.25	-	-	_	_	_	-	-
0.25 to <0.50	-	_	_	-	-	_	_
0.50 to <0.75	-	-	-	-	-	-	-
0.75 to <2.50	-	-	-	-	-	-	-
2.50 to <10.00	-	-	-	-	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	_	-	_	_	-	_

0 15 be cb2       9       0.22       19       8.20       2.33       5       95.7         0.55 be cb2       7       0.63       31       92.0       2.73       95       71.4         0.56 be cb2       2.71       10       0.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00 <t< th=""><th>Sub-total</th><th>842</th><th>0.04</th><th>35</th><th>27.7</th><th>0.46</th><th>48</th><th>5.7</th></t<>	Sub-total	842	0.04	35	27.7	0.46	48	5.7
9       0.22       19       2.02       2.33       5       95         0.516 or 0.57       11       0.63       213       52.0       2.71       40       10         0.516 or 0.57       11       0.63       23       52.0       2.71       40       12         0.516 or 0.57       12       1.42       63       52.0       2.71       10       12         0.500 or 0.000       1       62.0       2.71       40       12       13.0         0.000 or 0.000       1       62.0       1.00       4       200       1.00       4       200       1.00       5       500         0.000 or 0.000       1       100.00       1       62.0       1.10       110       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500<	Corporate – SME							
0.58 is 0.50       71       0.37       31       52.0       2.7.6       11       0.0.63       22.0       2.7.6       11       10.0.7.5       12.5.0       2.7.6       11       10.0.7.5       12.5.0       2.7.6       11.7       18.6.0       12.5.0       2.7.6       11.7       18.6.0       12.5.0       2.7.6       11.7       18.6.0       12.5.0       10.00       1.4.00       1.4.00       1.4.00       1.4.00       1.4.00       1.5.0       10.00       1.5.0       10.00       1.5.0       10.00       1.5.0       10.00       1.5.0       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00	0.00 to <0.15	4	0.13	6	52.0	3.12	2	50.0
0.25 to 2-00       0.37       0.31       0.52       0.52       2.73       11       0.04         0.5 to 2-50       32       1.42       63       52.0       2.74       10       01         0.5 to 2-50       32       1.42       63       52.0       2.74       10       125.0         0.000 (belaut)       1       10.000       1       52.0       1.00       4       200.0         0.000 (belaut)       1       10.000       1       52.0       1.00       4       200.0         0.000 (belaut)       75       2.90       77       52.0       1.85       10.00         0.5 to 2.50       0.000       226       0.000       1.85       10.85       11.80         0.5 to 2.50       1.81       0.63       62.0       1.85       11.80       10.75       1.85       10.95         0.5 to 2.50       3.94       1.14       1.86       52.0       1.83       1.95       11.80       1.95       1.13       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95	0.15 to <0.25	9	0.22	19	52.0	2.93	5	55.6
0.60 m c.07s110.6322052.02.7141100.02.50 m c.2502.714.8052.02.714.71188.12.50 m c.100.021.188852.01.004260100.00 f.100.00152.01.005650.050 m c.10.15752.221.722.689116.5Corport - Other752.221.222.201.13177180.1100 m c.1.15100 m c.1.151002.21.225.201.31100100 m c.1.15100 m c.1.151001.225.201.31100100100 m c.1.15100 m c.1.151.001.225.201.30100100100100 m c.1.151.001.221.001.221.00100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100								71.4
0.75 m < 250								
2 bit o 100094.80205.205.201.70196.4196.4100 00 10000 (0 fault)152.01.004200.05500.0100 00 10 10000 (0 fault)752.2252.01.131.171.90.000 00 10 109300.072.2252.01.131.778.60.010 10 00 10 10100 00 111.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.131.141.131.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.141.14<								125.0
10.00 10.00 (below)110.00152.01.004200.0Sub-total752.9217752.01.008080118.Corporate - Ottal752.9217752.01.201.3117718.00.16 to .0150.050.021.2252.01.121.3218.010.018.017.018.017.018.017.018.017.018.017.018.017.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.018.								
10000 [Orsenub]         1         100.00         1         52.00         2.60         89         118.3           Corporate - Other           300         0.75         2.20         1.13         177         15.00           0.15 m: 0.25         0.60         2.52         52.0         1.13         177         18.0           0.55 m: 0.250         265         0.37         87         52.0         1.85         173         65.5           0.50 m: 0.75         0.510         304         1.41         168         52.0         1.88         173         65.5           0.50 m: 0.50         334         1.41         168         52.0         3.13         7         223.3           10.00 no 10.00         3         3.14.0         58         3.68         30         52.0         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1.63         1								
Sub-total         75         2.9         177         52.0         2.69         89         118.           0.01 so (0.15         0.03 0         0.07         222         52.0         1.72         85         50.0           0.51 so (0.25         0.69         0.75         0.69         0.75         100         0.75         0.65         0.34         1.72         85         50.0           0.55 so (2.5)         0.69         0.75         10.0         0.84         52.0         3.42         168         107.5           0.55 so (2.5)         0.60         0.75         0.63         0.75         0.84         52.0         1.80         91         156.0           0.05 so (1.00         3         11.40         5         52.0         1.83         1.65         85.0         10.0         1.82         10.0         1.82         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.22         10.0         1.20         1.0         1.2								
Corporate - Other         930         0.07         222         52.0         1.13         177         19.0           0.15 to 0.25         0.25         0.15         0.25         0.15         0.25         0.15         0.25         0.15         0.25         0.15         0.25         0.20         1.36         173         655.           0.50 to 0.25         0.20         304         1.41         168         52.0         1.38         915         116.2           0.55 to 0.250         304         1.41         168         52.0         3.13         7         233.3           10.00 (pradu)         1         100.00         1         52.0         3.13         7         233.3           10.00 (pradu)         1         100.00         1         52.0         1.13         4         91           10.00 (pradu)         1         10.00         1         52.0         1.03         1.05         5         5           Sto-total         31 De 2020         3.02         0.43         952         4.21         1.149         92.0           10.05 to 6.05         -         -         -         -         -         -         -         -         -         -								
9.00 is 0.16         930         0.07         222         52.0         1.13         177         19.3           0.25 to 0.35         265         0.37         87         52.0         1.72         85         50.0           0.55 to 0.25.         151         0.63         48         52.0         3.42         163         107.5           0.75 to 2.50         304         1.41         168         52.0         3.42         163         107.5           0.75 to 2.50         304         1.41         168         52.0         1.83         7         235.0           10.00 (netuity)         1         100.00         1         52.0         1.51         4         -           Sub-total         1.881         0.55         683         52.0         1.83         1.055         58.0           Soversign         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -		15	2.52	177	52.0	2.03		110.7
0.15 a 0.26         0.22         122         12.0         1.72         85         800           0.50 a 0.26         0.37         87         52.0         1.08         1.72         85         1.63         0.75         0.50 a 0.75         0.75         0.50 a 0.75         0.75         0.50 a 0.75         0.75 a 0.25 a 0.163         1.63 1.05         56.6           Conductant at 1 De 2020         3.027         0.43 952         4.21         1.25         1.194         390           Sobrotal         1.681         0.055         56.6         56.7         1.00         1.32         1.0         2.25           Sobrotal 0.75         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -		020	0.07	222	E2 0	1 1 2	177	10.0
0.256 o.050         265         0.37         87         52.0         1.485         173         653           0.576 o.250         304         1.41         168         52.0         1.40         91         955         1195           0.50 o.250         3.00         91         165         3.00         91         1956           10.00 v.0000         38         11.40         5         52.0         1.30         7         2330           500 v.0000         1         10000         0         152.0         1.51         4         -           Sub-total         1.081         0.55         683         52.0         1.03         1.055         58.0           Sourcal tot at 31 De 220         3.027         0.43         992         1.04         1.05         992         1.02         1.05         992         1.03         1.05         992         1.03         1.05         992         1.03         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05         1.05								
0.60 o. 076         151         0.63         48         52.0         1.98         316           0.576 to 2.80         304         1.41         168         52.0         1.80         91         156           2.60 to 1000         3         11.40         5         52.0         3.13         7         233.3           1000 to 1000         1         150.0         1.61         4         -         -         -         -         306.5         1.63         1.05         56.6         56.3         52.0         1.61         4.9         56.5         56.5         56.5         1.65         1.65         4.9         56.5         56.6         1.05         56.6         1.05         4.0         1.05         4.0         1.05         4.0         57.5         56.6         1.65         1.05         56.6         1.05         1.05         56.6         1.05         1.05         4.0         1.05         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02         1.02								
9.75 m 2.80         304         1.41         168         52.0         1.80         355         1140           10.00 to 200.00         3         11.40         5         52.0         1.80         91         91.65           10.00 to 200.00         1         100.00         15.0         1.63         7         238.0           Sub-total         1.881         0.55         683         52.0         1.63         1.095         58.0           Sub-total         3.027         0.438         952         42.1         1.25         1.919         38.0           Sourcial         3.027         0.438         952         42.1         1.25         1.919         38.0           Sourcial         3.025         0.43         0.44         57         1.00         1.22         1.919         39.0           2.50 to 5.00         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
250 to 10.00         58         3.86         30         52.0         1.80         91         195.6           100.00 befault)         1         100.00         1         52.0         1.18         1.05         56.0           Seb-stral         1.881         0.055         66.8         52.0         1.18         1.055         56.0           Seb-stral         1.881         0.055         66.8         52.0         1.18         1.055         56.0           Seb-stral         1.881         0.055         66.8         52.0         1.18         39.0           Seb-stral         3.027         0.43         952         42.1         1.25         1.09         22.5           Onto to 515         0.255         0.43         0.04         57         1.00         1.32         10         22.5           0.055         0.434         0.04         57         10.0         1.32         10         22.5           0.56         0.57         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
10.00 to /10.00         3         11.40         5         52.0         1.13         7         233.           Sub-total         1         100.00         0.55         663         52.0         1.63         1.055         56.           Sub-total         31.0c 20.00         3.027         0.43         9552         42.1         1.25         1.194         39.4           Soversign         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
100.00 Lorfault)         1         100.00         1         15.1         4								
Sub-trail         1,881         0.55         683         52.0         1.63         1,065         58.4           Soveraid tal at 31 Dec 2020         3,027         0.43         952         42.1         1.25         1,194         39.0           Soveraid tal 31 Dec 2020         0.43         0.04         57         10.0         1.32         10         22.0           Soveraid tal 430         0.04         57         10.0         1.32         10         22.0           Soveraid tal 430         0.04         57         10.0         1.32         10         22.0           0.516         0.25         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         <								233.3
Grand-total at 31 Dec 2020         3.027         0.43         952         4.21         1.25         1.194         39.           0.00 to 61 15         4.34         0.04         57         10.0         1.32         10         22.           0.15 to c.015         4.34         0.04         57         10.0         1.32         10         22.           0.15 to c.025         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -								_
Sovereign         Sovereign           000 to c-015         434         0.04         57         10.0         1.32         10         2.2           0.15 to c-025         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Sub-total	1,881	0.55	683	52.0	1.63	1,055	56.1
0.00 to 20 to	Grand-total at 31 Dec 2020	3,027	0.43	952	42.1	1.25	1,194	39.4
0.15 to a025       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <t< td=""><td>Sovereign</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Sovereign							
025 to 0450         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td< td=""><td>0.00 to &lt;0.15</td><td>434</td><td>0.04</td><td>57</td><td>10.0</td><td>1.32</td><td>10</td><td>2.3</td></td<>	0.00 to <0.15	434	0.04	57	10.0	1.32	10	2.3
0.80 to 0.75       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <t< td=""><td>0.15 to &lt;0.25</td><td></td><td>-</td><td>-</td><td>-</td><td>_</td><td>-</td><td>_</td></t<>	0.15 to <0.25		-	-	-	_	-	_
0.75 to 250       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td< td=""><td>0.25 to &lt;0.50</td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td></td<>	0.25 to <0.50		_	_	_	_	_	_
250 to 10.00       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <t< td=""><td>0.50 to &lt;0.75</td><td></td><td>_</td><td>-</td><td>_</td><td>_</td><td>_</td><td>_</td></t<>	0.50 to <0.75		_	-	_	_	_	_
10.00 to -100.00       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	0.75 to <2.50		_	_	_	_	_	_
10.00 to -100.00       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	2.50 to <10.00		_	_	_	_	_	_
100.00 (Default)         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	10.00 to <100.00		_	_		_	_	_
Sub-total         434         0.04         57         10.0         1.32         10         2.3           Banks			_	_		_	_	_
Banks         0.00 to <0.15         974         0.12         43         27.4         1.14         199         20.0           0.15 to <0.25		434	0.04	57	10.0	1.32	10	2.3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Banks							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		974	0.12	43	27.4	1 14	199	20.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
0.75 to <2.50         6         0.87         1         27.0         5.00         5         75.6           2.50 to <10.00								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
10.00 to <100.00								
100.00 (Default)         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -								
Sub-total         980         0.12         44         28.0         1.16         204         20.4           Corporate - SME         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -								
Corporate - SME         2         0.13         7         52.0         1.00         1         30.0           0.01 to <0.15								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Sub-total	980	0.12	44	28.0	1.16	204	20.8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	•							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								0.7
0.75 to <2.50								0.7
2.50 to <10.00       4       6.01       18       52.0       1.20       7       1.1         10.00 to <100.00								1.1
10.00 to <100.00       1       12.79       7       52.0       1.00       3       2.0         100.00 (Default)       -       100       1       -       1.00       2       6.9         Sub-total       43       2.20       156.0       52.0       2.70       50       116.3         Corporate - Others       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	0.75 to <2.50	12	1.34	54	52.0	2.40	15	1.2
100.00 (Default)       -       100       1       -       1.00       2       6.5         Sub-total       43       2.20       156.0       52.0       2.70       50       116.3         Corporate - Others         0.00 to <0.15	2.50 to <10.00	4	6.01	18	52.0	1.20	7	1.7
Sub-total         43         2.20         156.0         52.0         2.70         50         116.3           Corporate – Others	10.00 to <100.00	1	12.79	7	52.0	1.00	3	2.6
Corporate – Others         0.00 to <0.15         831         0.09         97         52.0         1.90         233         30.0           0.15 to <0.25	100.00 (Default)	_	100	1	_	1.00	2	6.9
0.00 to <0.15         831         0.09         97         52.0         1.90         233         30.0           0.15 to <0.25	Sub-total	43	2.20	156.0	52.0	2.70	50	116.3
0.00 to <0.15         831         0.09         97         52.0         1.90         233         30.0           0.15 to <0.25								
0.00 to <0.15         831         0.09         97         52.0         1.90         233         30.0           0.15 to <0.25	Corporate – Others							
0.15 to <0.25         200         0.22         47         52.0         2.60         115         60.0           0.25 to <0.50	· · ·	831	0.09	97	52.0	1.90	233	30.0
0.25 to <0.50         174         0.37         96         52.0         2.10         130         70.0           0.50 to <0.75								60.0
0.50 to <0.75         100         0.63         56         52.0         1.90         85         90.0           0.75 to <2.50								70.0
0.75 to <2.50         255         1.42         394         52.0         1.40         308         120.0           2.50 to <10.00								90.0
2.50 to <10.00         33         3.62         14         52.0         2.20         54         160.0           10.00 to <100.00								
10.00 to <100.00       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -								
100.00 (Default)         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -								
Sub-total         1,593         0.46         704         52.0         1.95         925         58.0								
								-
Grand-total at 31 Dec 2019 3,050 0.32 961 38.3 1.62 1,189 39.0								
	Grand-total at 31 Dec 2019	3,050	0.32	961	38.3	1.62	1,189	39.0

#### Table 16: Composition of collateral for CCR exposure (CCR5)

		Coll	ateral used in der	ivative transact	ions	Collateral us	ed in SFTs
			alue of I received		lue of ollateral	Fair value of collateral	Fair value of posted
		Segregated	Unsegregated	Segregated	Unsegregated	received	collateral
		\$m	\$m	\$m	\$m	\$m	\$m
1	Cash – domestic currency	-	34		220	-	-
2	Cash – other currencies	-	191		250	-	-
3	Domestic sovereign debt	-	47	3	82	-	38
4	Other sovereign debt	-	-	-	-	-	-
5	Government agency debt	-	-	-	-	-	-
6	Corporate bonds	-	-	-	-	-	-
7	Equity securities	-	-	-	-	-	-
8	Other collateral	-	-	-	-	-	-
9	Total at 31 Dec 2020	-	272	3	552	-	38
1	Cash – domestic currency	_	18		240		_
2	Cash – other currencies	-	192	-	268	-	-
3	Domestic sovereign debt	-	2	48	73	-	67
4	Other sovereign debt	_	_	-	_	_	_
5	Government agency debt	_	_	_	_	_	_
6	Corporate bonds	_	_	_	_	_	_
7	Equity securities	-	-	-	_	_	-
8	Other collateral	-	-	-	_	-	-
9	Total at 31 Dec 2019	_	212	48	581	_	67

Table 17: Exposures to central counterparties (CCPs) - CCR8

		At 31 Dec 2	020	At 31 Dec 20	019
		EAD post- CRM	RWA	EAD post-CRM	RWA
		\$m	\$m	\$m	\$m
1	Exposures to QCCPs (total)	200	7	391	17
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	151	3	308	7
3	– OTC derivatives	122	3	291	7
4	<ul> <li>exchange-traded derivatives</li> </ul>	11	-	17	_
5	<ul> <li>securities financing transactions</li> </ul>	18	-	-	_
6	<ul> <li>netting setts where cross-products netting has been approved</li> </ul>	-	-	-	_
7	Segregated initial margin	38	1	67	1
8	Non-segregated initial margin	-	-	-	-
9	Pre-funded default fund contributions	11	3	16	9
10	Unfunded default fund contributions	-	-	-	-
11	Exposures to non- QCCPs (total)	-	-	-	-
12	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	_	_	_	_
13	- OTC derivatives	-	_	-	_
14	<ul> <li>exchange-traded derivatives</li> </ul>	-	_	-	_
15	<ul> <li>securities financing transactions</li> </ul>	-	_	-	_
16	<ul> <li>netting setts where cross-products netting has been approved</li> </ul>	-	_	_	_
17	Segregated initial margin	-	-	-	-
18	Non-segregated initial margin	-	-	_	_
19	Pre-funded default fund contributions	-	_	_	_
20	Unfunded default fund contributions	-	-	_	_

1. QCCP - Qualifying Central Counterparty

# **Market Risk**

Market Risk is the risk that movements in market factors, such as foreign exchange rates, interest rates, credit spread, equity prices and commodity prices will reduce the value of our portfolios.

### Market Risk Governance (MRA)

HSBC Bank Canada's strategic objectives in undertaking trading activities are to solidify the Bank's position as the leading international bank in Canada through finance-focused and emerging markets-led strategy. The Bank delivers global products and solutions to domestic clients, and provides global clients access to local products and services.

Market Risk is the independent oversight unit within HSBC Bank Canada and has a mandate to ensure that market risks are within the risk appetite of the Bank. Market Risk is responsible for the daily calculation of market risk measures and backtesting reports, setting of limits and monitoring exposures against limits, and calculation and reporting of capital charges. The Global Risk Analytics team, which is responsible for development and monitoring the performance of model methodology, as well as liaison with external regulators, works closely with the core Market Risk team.

The Audit, Risk and Conduct Review Committee (ARC), a committee of the Board of Directors, has non-executive responsibility for oversight and advice to the Board on matters related to financial reporting and high-level risk related matters and governance. The Risk Management Meeting (RMM) has a mission to provide strategic enterprise-wide risk management. A subcommittee of the RMM is the Risk Markets Model Oversight Committee, which is primarily responsible for oversight (including approval, monitoring, vetting, ensuring fitness of purpose, etc.) of models, which are used primarily for regulatory capital charges.

## Internal Model Approach (IMA)

HSBC Bank Canada has permission to use the internal model approach to calculate general market risk based on the VaR and Stressed VaR components and relies on the standard charge approach to measure the interest rate specific risk. The Stressed VaR is primarily used for regulatory capital purposes and is integrated into the risk management process to ensure prudent capital management. Stressed VaR complements other risk measures by providing the potential losses under stressed market conditions. The Stressed VaR is calibrated to a one-year period of stress observed in history. For risk management purposes 1-day VaR and 10-day Stressed VaR are computed. For regulatory purposes, 10-day VaR and 10-day Stressed VaR are computed. The standard charge is aggregated with the VaR and Stressed VaR contributions when computing the market risk capital charge.

#### Monitoring and limiting market risk exposures

Our objective is to manage and control market risk exposures while maintaining a market profile consistent with our risk appetite. We use a range of tools to monitor and limit market risk exposures including sensitivity analysis, VaR and stress testing.

### Sensitivity analysis

We use sensitivity measures to monitor the market risk positions within each risk type. Sensitivity limits are set for portfolios, products and risk types, with the depth of the market being one of the principal factors in determining the level of limits set.

#### Value at risk

Value at risk ('VaR') is a technique that estimates the potential losses on risk positions in the trading portfolio as a result of movements in market rates and prices over a specified time horizon and to a given level of confidence. The use of VaR is integrated into market risk management and is calculated for all trading positions regardless of how we capitalize those exposures. VaR is calculated at a 99% confidence level for a one-day holding period. Our VaR models derive plausible future scenarios from past series of recorded market rates and prices, taking into account interrelationships between different markets and rates such as interest rates and foreign exchange rates. Relative returns are used for credit spreads and exchange rates and absolute returns are used for interest rates.

We use the past two years as the data set in our VaR models, which is updated on a fortnightly basis, and these scenarios are then applied to the market baselines and trading positions on a daily basis. The models also incorporate the effect of option features on the underlying exposures. The valuation approach used in our models values linear instruments, such as bonds and swaps, using a sensitivity-based approach. The nature of the VaR models means that an increase in observed market volatility will lead to an increase in VaR even without any changes in the underlying positions.

### VaR model limitations

Although a valuable guide to risk, VaR should always be viewed in the context of its limitations. For example:

- Use of historical data as a proxy for estimating future events may not encompass all potential events, particularly extreme ones.

- The use of a holding period assumes that all positions can be liquidated or the risks offset during that period, which may not fully reflect the market risk arising at times of severe illiquidity, when the holding period may be insufficient to liquidate or hedge all positions fully.

- The use of a 99% confidence level does not take into account losses that might occur beyond this level of confidence.

- VaR is calculated on the basis of exposures outstanding at the close of business and therefore does not necessarily reflect intra-day exposures.

### **Risk not in VaR framework**

The risks not in VaR ('RNIV') framework captures and capitalizes material market risks that are not adequately covered in the VaR model.

Risk factors are reviewed on a regular basis and are either incorporated directly in the VaR models, where possible, or quantified through a stress test approach within the RNIV framework. Stress RNIVs are estimated on the basis of stress scenarios whose severity is calibrated to be in line with the capital adequacy requirements.

#### **Back-testing**

We routinely validate the accuracy of our VaR models by back testing them against hypothetical profit and loss. Hypothetical profit and loss excludes non-modelled items such as fees, commissions and revenues of intra-day transactions. This is done at various levels, including total trading book, lines of business, and at the risk factor level.

#### Stress testing

Stress testing is an important procedure that is integrated into our market risk management framework to evaluate the potential impact on portfolio values of more extreme, although plausible, events or movements in a set of financial variables. In such scenarios, losses can be greater than those predicted by VaR modelling. The market risk stress testing incorporates the historical and hypothetical events either globally or locally-defined. The locally-defined scenarios are chosen based on the HSBC Bank Canada portfolio and relevant risk factors. Stressed profit and loss figures are compared against referral limits and breaches are reported to senior management. Market risk reverse stress tests are undertaken on the premise that there is a fixed loss. The stress testing process identifies which scenarios lead to this loss. The rationale behind the reverse stress test is to understand scenarios that are beyond normal business settings and could have contagion and systemic implications.

Table 18: Market risk under standardised approach (MR1)

			At	
		31 Dec 2020	31 Dec 2019	31 Dec 2020
		RWA	RWA	Capital requirements
		\$m	\$m	\$m
	Outright products			
1	Interest rate risk (general and specific)	75	160	6
2	Equity risk (general and specific)	-	-	-
3	Foreign exchange risk	-	-	-
4	Commodity risk	-	-	-
	Options			
6	Delta-plus method	-	-	-
7	Scenario approach	-	-	-
8	Securitisation	-	-	-
9	Total	75	160	6

#### Table 19 : RWA flow statement of market risk exposures under Internal Model Approach (MR2)

		VaR	Stressed VaR	Other	Total RWA
		\$m	\$m	\$m	\$m
1	RWA at the beginning of the period - 1 Oct 2020	216	322	48	586
2	Movement in risk levels <sup>1</sup>	(12)	73	(28)	33
3	Model updates/changes	-	-	_	_
4	Methodology and policy	-	-	-	-
8	RWA at the end of the period - 31 Dec 2020	204	395	20	619

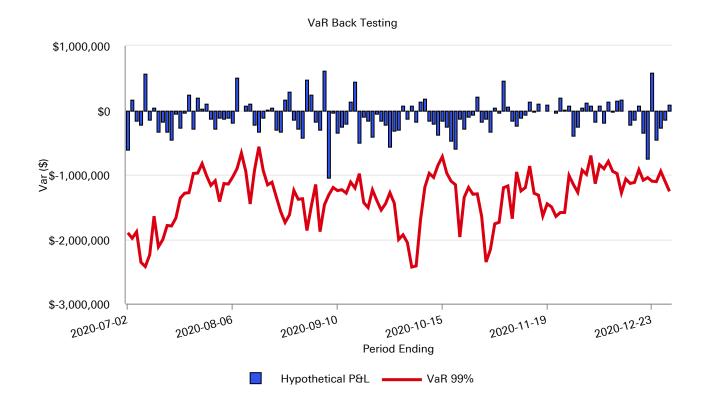
1. Movement due to position changes; foreign exchange movements are embedded in the movement in risk levels

#### Table 20: IMA values for trading portfolios<sup>1</sup> (MR3)

Table 20: IMA values for trading portfolios" (MR3)				
	At	At		
	31 Dec 2020	31 Dec 2019		
	\$'000	\$'000		
VaR				
1 Maximum value	7,638	4,770		
2 Average value	4,087	3,275		
3 Minimum value	2,225	2,296		
4 Period end	3,930	2,296		
Stressed VaR				
5 Maximum value	10,607	9,432		
6 Average value	7,914	7,871		
7 Minimum value	6,598	6,751		
8 Period end	8,409	6,751		
Incremental Risk Charge				
9 Maximum value	-	-		
10 Average value	-	-		
11 Minimum value	-	-		
12 Period end	-	-		
Comprehensive Risk capital charge				
13 Maximum value	-	-		
14 Average value	-	-		
15 Minimum value	-	-		
16 Period end	-	-		
17 Floor (standardized measurement method)	-	-		

1. These are the maximum, average and minimum values in the fourth quarter of the year.

#### Table 21: Comparison of VaR estimates with gains/losses (MR4)



There were no back-testing exceptions noted against hypothetical P&L for the second half of the year 2020.

## Leverage

#### Table 22 : Summary comparison of accounting assets vs. leverage ratio exposure measure (LR1)

		At		
		31 Dec 2020	30 Sep 2020	
		\$m	\$m	
1	Total consolidated assets as per published financial statements	117,348	124,213	
2	Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	-	_	
3	Adjustment for securitised exposures that meet the operational requirements for the recognition of risk transference	-	_	
4	Adjustment for fiduciary assets recognised on the balance sheet pursuant to the operative accounting framework but excluded from the leverage ratio exposure measure	_	_	
5	Adjustments for derivative financial instruments	(3,056)	(3,372)	
6	Adjustment for securities financing transactions (i.e. repurchase agreements and similar secured lending)	200	103	
7	Adjustment for off-balance sheet items (i.e. conversion to credit equivalent amounts of off-balance sheet exposures)	14,966	15,436	
8	Other adjustments <sup>1</sup>	(20,163)	(23,476)	
9	Leverage ratio exposure measure	109,295	112,904	

1. Effective Q12020, OSFI temporarily allows the exclusion of central bank reserves and sovereign-issued securities that qualify as High Quality Liquid assets (HQLA) from the leverage ratio exposure measure, until 31st December 2021. Asset amounts deducted in determining Basel III Tier 1 capital are also included as a deduction

#### Table 23 : Leverage Ratio Common Disclosure Template (LR2)

	-	At	
		31 Dec 2020	30 Sep 2020
		\$m	\$m
	On-balance sheet exposures		
1	On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral) <sup>1</sup>	86,063	87,186
2	Gross up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the operative accounting framework (IFRS)	_	_
3	(Deductions of receivables assets for cash variation margin provided in derivative transactions)	(470)	(738)
4	(Asset amounts deducted in determining Basel III Tier 1 capital)	(321)	(336)
5	Total on-balance sheet exposures (excluding derivatives and SFTs) (Sum of lines 1 to 4)	85,272	86,112
	Derivative exposures		
6	Replacement cost associated with all derivative transactions (i.e. net of eligible cash variation margin)	1,108	1,116
7	Add-on amounts for PFE associated with all derivative transactions	1,753	1,859
8	(Exempted CCP-leg of client cleared trade exposures)	_	
9	Adjusted effective notional amount of written credit derivatives	-	
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	-	
11	Total derivative exposures (sum of lines 6 to 10)	2,861	2,975
	Securities financing transaction exposures		
12	Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	6,649	10,334
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(653)	(2,056)
14	Counterparty credit risk (CCR) exposure for SFTs	200	103
15	Agent transaction exposures	_	
16	Total securities financing transaction exposures (sum of lines 12 to 15)	6,196	8,381
	Other off-balance sheet exposures		
17	Off-balance sheet exposure at gross notional amount	50,205	50,965
18	(Adjustments for conversion to credit equivalent amounts)	(35,239)	(35,529)
19	Off-balance sheet items (sum of lines 17 and 18)	14,966	15,436
	Capital and Total Exposures		
20	Tier 1 capital	6,574	6,508
21	Total Exposures (sum of lines 5, 11, 16 and 19)	109,295	112,904
	Leverage Ratios (%)		
22	Leverage ratio	6.0	5.8
22a	Leverage ratio with transitional arrangements for ECL provisioning not applied	6.0	5.7

1. Effective Q12020, OSFI temporarily allows the exclusion of central bank reserves and sovereign-issued securities that qualify as High Quality Liquid assets (HQLA) from the leverage ratio exposure measure, until 31st December 2021

# Glossary

- OSFI Office of the Superintendent of Financial Institutions
- \$ Canadian dollar
- Gross carrying values: The gross value is the accounting value before any any credit conversion factor (CCF), credit risk mitigation (CRM) techniques or allowance/impairments.
- **Probability of Default (PD)** An estimate of the likelihood of a customer defaulting on any credit related obligation within a 1 year time horizon, expressed as a percentage.
- Loss Given Default (LGD) An estimate of the economic loss, expressed as a percentage (0%-100%) of the exposure at default, that the Bank will incur in the event a borrower defaults
- Exposure At Default (EAD) An estimate of the amount of exposure to a customer at the time of default.
- Standardized Approach for credit risk Under this approach, banks use a standardized set of risk-weights as prescribed by
  OSFI to calculate credit risk capital requirements. The standardized risk-weights are based on external credit assessments, where
  available, and other risk-related factors, including exposure asset class, collateral, etc.
- Advanced Internal Ratings Based (AIRB) approach for credit risk Under this approach, banks use their own internal historical experience of PD, LGD, EAD and other key risk assumptions to calculate credit risk capital requirements.
- Home Equity Lines of Credit (HELOC) Revolving personal lines of credit secured by home equity.
- SA-CCR The standardised approach (SA-CCR) for measuring exposure at default for counterparty credit risk.
- Credit Value adjustment (CVA) Credit valuation adjustment ('CVA') risk is the risk of adverse moves in the CVAs taken for expected credit losses on derivative transactions.
- VaR Value at Risk Value at risk ('VaR') is a technique that estimates the potential losses on risk positions in the trading
  portfolio as a result of movements in market rates and prices over a specified time horizon and to a given level of confidence.
- All-in regulatory capital assumes that all Basel III regulatory adjustments are applied effective January 1, 2013 and that the capital value of instruments which no longer qualify as regulatory capital under Basel III rules will be phased out at a rate of 10% per year from January 1, 2013 and continuing to January 1, 2022.
- **Transitional regulatory capital** assumes that all Basel III regulatory capital adjustments are phased in from January 1, 2014 to January 1, 2018 and that the capital value of instruments which no longer qualify as regulatory capital under Basel III rules will be phased out at a rate of 10% per year from January 1, 2013 and continuing to January 1, 2022.
- Asset size: organic changes in book size and composition (including origination of new businesses and maturing loans) but excluding changes in book size due to acquisitions and disposal of entities.
- Asset quality: changes in the assessed quality of the bank's assets due to changes in borrower risk, such as rating grade migration or similar effects.
- **Model updates**: changes due to model implementation, changes in model scope, or any changes intended to address model weaknesses.
- **Methodology and policy**: changes due to methodological changes in calculations driven by regulatory policy changes, including both revisions to existing regulations and new regulations.
- Acquisitions and disposals: changes in book sizes due to acquisitions and disposal of entities.
- ECL: expected credit loss