2023 HSBC Bank Canada Regulatory Capital & Risk Management

Pillar 3 Supplementary Disclosures As at September 30, 2023



Contents

	Page
Notes to users	<u>3</u>
Road map to Pillar 3 disclosures	4
Capital and RWA	<u>6</u>
Regulatory Capital Disclosure - CC1	<u>6</u> <u>7</u>
Overview of Risk Weighted Assets - OV1	<u>7</u>
Credit Risk	<u>7</u>
Credit quality of assets - CR1	<u>7</u>
Credit risk mitigation techniques – overview - CR3	<u>8</u>
Standardized approach – credit conversion factor ('CCF') and credit risk mitigation ('CRM') effects - CR4	<u>8</u>
Standardized approach – exposures by asset class and risk weight - CR5	9
IRB – Credit risk exposures by portfolio and PD range - CR6	<u>10</u>
RWA flow statements of credit risk exposures under IRB - CR8	<u>15</u>
Specialized lending on slotting approach and Equities under simple risk-weight method - CR10	<u>15</u>
Counterparty credit risk	13
Analysis of counterparty credit risk exposure by approach - CCR1	<u>16</u>
Credit valuation adjustment (CVA) capital charge - CCR2	<u>16</u>
IRB - CCR exposures by portfolio and PD scale - CCR4	<u>17</u>
Composition of collateral for CCR exposure - CCR5	<u>19</u>
Exposures to central counterparties (CCPs) - CCR8	<u>19</u>
Market Risk	<u>19</u>
Qualitative disclosure for Market Risk Governance (MRA)	<u>19</u>
Qualitative disclosure for Internal Models Approach(IMA)	<u>19</u>
Market risk under standardised approach - MR1	<u>20</u>
RWA flow statements of market risk exposures under an Internal Model Approach (IMA) - MR2	<u>20</u>
IMA values for trading portfolios - MR3	<u>20</u>
Comparison of VaR estimates with gains/losses - MR4	<u>20</u>
Leverage Ratio	<u>21</u>
Summary comparison of accounting assets vs. leverage ratio exposure measure (LR1)	<u>21</u>
Leverage Ratio Common Disclosure (LR2)	<u>22</u>
Glossary	<u>23</u>

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 2022 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 2022 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.

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.

From Q2 2023, disclosure is based on OSFI's Pillar 3 disclosure requirements (April 2023), including Capital disclosure requirement and Leverage ratio disclosure requirement.

In the second quarter of 2023, the bank implemented the Basel III reforms according to the final Capital Adequacy Requirements ('CAR') Guideline and Leverage Requirements ('LR') Guideline issued by OSFI, apart from the chapters related to market risk and credit valuation adjustment ('CVA') which will take effect in the first quarter of 2024. The resultant rise in risk-weighted assets ('RWA') accompanied by an increase in capital floor adjustment is a reflection of the following notable changes in the revised CAR Guideline:

- For internal ratings based ('IRB') portfolios, removal of a 6% scaling factor from IRB RWA.
- Implementation of a revised wholesale exposure at default ('EAD') model leading to lower IRB RWA on average.
- For the capital floor based on RWA calculated using the standardized approach ('SA'), an inclusion for the first time, a revised operational risk RWA based on a framework driven by income and historical losses.
- The revised SA is more risk sensitive, in particular, wholesale exposures secured by real estate collateral and loans granted for land acquisition, development and construction ('ADC') can be assigned a risk weight as high as 150%.
- Reduction of the capital floor factor from 70% to 65%, requiring for a phase-in to 72.5% by 2026 with an annual increment of 2.5%.

The revisions to the existing Pillar 3 disclosure effective in the second quarter of 2023 has incorporated the above changes.

Road map to Pillar 3 disclosure requirement

Section	Identifier	Table and templates	Frequency	2022 Annual Report
Capital disclosure	CC1	Composition of Regulatory Capital	Quarterly	пероп
Overview of risk	OVA	Bank risk management approach	Annually	24-28
management	OVA OV1	Overview of risk weighted asset	Quarterly ³	24-20
managoment	KM1	Key Metrics	Quarterly	
Comparison of modelled &	CMS1	Comparison of modelled and standardised RWA at risk level	Quarterly ¹	
standardised RWA	CMS2	Comparison of modelled and standardised at asset class level	Quarterly ¹	
Credit risk	CRA	General information about credit risk	Annually	28-32
	CR1	Credit quality of assets	Quarterly	
	CRC	CRC – Qualitative disclosure requirements related to credit risk mitigation techniques	Annually	42-43
	CR3	Credit risk mitigation techniques – overview	Quarterly	
	CR4	Standardized approach – credit risk exposure and Credit Risk Mitigation (CRM) effects	Quarterly	
	CR5	Standardized approach – exposures by asset classes and risk weights	Quarterly	
	CRE	Qualitative disclosures related to IRB models	na ¹	
	CR6	IRB Credit risk exposures by portfolio and PD range	Quarterly	
	CR7	IRB – Effect on RWA of credit derivatives used as CRM techniques	na ²	
	CR8	RWA flow statements of credit risk exposures under IRB	Quarterly	
	CR9	IRB – Backtesting of probability of default (PD) per portfolio	Annual ¹	
	CR10	Specialized lending on slotting approach and Equities under simple risk-weight method	Quarterly ³	
Counterparty	CCRA	Qualitative disclosure related to counterparty credit risk	Annually	69-70
credit risk	CCR1	Analysis of counterparty credit risk (CCR) exposure by approach	Quarterly	
	CCR2	Credit valuation adjustment (CVA) capital charge (CCR2)	Quarterly ³	
	CCR3	Standardized approach of CCR exposures by regulatory portfolio and risk weights	na ²	
	CCR4	IRB - CCR exposures by portfolio and PD scale	Quarterly	
	CCR5	Composition of collateral for CCR exposure	Quarterly	
	CCR6	Credit derivatives exposures	na ¹	
	CCR8	Exposures to central counterparties (CCPs)	Quarterly ³	
Securitization	SECA	Qualitative disclosure requirements related to securitization exposures	na ²	
Market risk	MRA	Qualitative disclosure requirements related to market risk	Annually	51-52
	MRB	Qualitative disclosures for banks using the Internal Models Approach (IMA)	Annually	51-52
	MR1	Market risk under standardised approach	Quarterly	
	MR2	RWA flow statements of market risk exposures under an IMA	Quarterly	
	MR3	IMA values for trading portfolios	Quarterly	
	MR4	Comparison of VaR estimates with gains/losses	Quarterly	
Operational Risk	ORA	General qualitative information on a bank's operational risk framework	Annually	
	OR1	Historical losses	Annually	
	OR2	Business indicator and subcomponents	Annually	
	OR3	Minimum required operational risk capital	Annually	
Interest Rate Risk				
in the Banking	IRRBB	IRRBB Disclosure	Annually	49-50
Leverage ratio	LR1	Summary comparison of accounting assets vs leverage ratio exposure measure	Quarterly	
Leverage ratio	LR2	Leverage ratio common disclosure template	Quarterly	

Table effective from reporting period as at 31st Dec 2023.
 Table does not have any reportable values as at 30 Sep 2023.
 Table continued from previous OSFI Pillar 3 guidelines.

ıal	ole 1 : Key metrics (KM1)					
				At		
		30 Sep 2023	30 Jun 2023	31 Mar 2023	31 Dec 2022	30 Sep 2022
	Available capital (\$m)					_
1	Common Equity Tier 1 capital (CET1)	5,958	5,718	5,467	5,198	4,919
1a	Common Equity Tier 1 capital (CET1) with transitional arrangements for ECL provisioning not applied	_	_	_	5,179	4,902
2	Tier 1 capital	7,058	6,818	6,567	6,298	6,019
2a	Tier 1 capital with transitional arrangements for ECL provisioning not applied	_	-	_	6,279	6,002
3	Total capital	8,066	7,821	7,627	7,337	7,037
3a	Total capital with transitional arrangements for ECL provisioning not applied	_	-	_	7,337	7,037
	Risk Weighted Asset (\$m)					
4	Total risk-weighted assets (RWA)	43,216	44,519	44,086	44,656	44,481
4a	Total risk-weighted assets (pre-floor)	36,951	36,661	42,163	42,292	42,055
	Risk-based capital ratios as a percentage of RWA (%)					
5	Common Equity Tier 1 ratio	13.8	12.8	12.4	11.6	11.1
5a	Common Equity Tier 1 with transitional arrangements for ECL provisioning not applied	_	_	_	11.6	11.0
5b	Common Equity Tier 1 ratio (pre-floor)	16.1	15.6	13.0	12.3	11.7
6	Tier 1 ratio	16.3	15.3	14.9	14.1	13.5
6a	Tier 1 with transitional arrangements for ECL provisioning not applied	_	_	_	14.1	13.5
6b	Tier 1 ratio (pre-floor)	19.1	18.6	15.6	14.9	14.3
7	Total capital ratio	18.7	17.6	17.3	16.4	15.8
7a	Total capital with transitional arrangements for ECL provisioning not applied	_	_	_	16.4	15.8
7b	Total capital ratio (pre-floor)	21.8	21.3	18.1	17.3	16.7
	Additional CET1 buffer requirements as a percentage of RWA (%)					
8	Capital conservation buffer requirement (2.5% from 2019)	_	_	_	_	
9	Countercyclical buffer requirement	_	_	_	_	
10	Bank G-SIB and/or D-SIB additional requirements	na	na	na	na	na
11	Total of bank CET1 specific buffer requirements (%) (row 8 + row 9 + row 10)	_	_	_	_	_
12	CET1 available after meeting the bank's minimum capital requirements	13.8	12.8	12.4	11.6	11.1
	Basel III Leverage ratio (%)					
13	Total Basel III leverage ratio exposure measure	130,167	131,227	129,224	132,762	140,721
14	Basel III leverage ratio (row 2 / row 13)	5.4	5.2	5.1	4.7	4.3
14a	Basel III leverage ratio (row 2a / row 13) with transitional arrangements for ECL provisioning not applied	_			4.7	4.3

Composition of capital

	ble 2 : Composition of Regulatory Capital (CC1)	A	t
		30 Sep 2023	30 Jun 2023
	Common Equity Tier 1 capital: instruments and reserves (\$m)	00 000 1010	00 04.1. 2020
1	Directly issued qualifying common share capital (and equivalent for non-joint stock companies) plus related stock surplus	1,125	1,125
2	Retained earnings	5,076	4,879
3	Accumulated other comprehensive income (and other reserves)	(803)	(797)
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	5,398	5,207
	Common Equity Tier 1 capital: regulatory adjustments (\$m)		
28	Total regulatory adjustments to Common Equity Tier 1	560	511
29	Common Equity Tier 1 capital (CET1)	5,958	5,718
	Additional Tier 1 capital: instruments		
30	Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	1,100	1,100
31	- of which: classified as equity under applicable accounting standards	1,100	1,100
32	- of which: classified as liabilities under applicable accounting standards	_	_
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
	Additional Tier 1 capital: regulatory adjustments (\$m)		
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)	7,058	6,818
	Tier 2 capital: instruments and allowances (\$m)		
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	_	_
48	(amount allowed in group Tier 2)	_	_
49	 of which: instruments issued by subsidiaries subject to phase out 	_	_
50	Impairment allowances	8	3
51	Tier 2 capital before regulatory adjustments	1,008	1,003
	Tier 2 capital: regulatory adjustments (\$m)		
57	Total regulatory adjustments to Tier 2 capital	_	
58	Tier 2 capital (T2)	1,008	1,060
59	Total capital (TC = T1 + T2)	8,066	7,821
60	Total risk-weighted assets (RWA)	43,216	44,086
61	Common Equity Tier 1 (as percentage of risk-weighted assets)	13.8	12.8
62	Tier 1 (as percentage of risk-weighted assets)	16.3	15.3
63	Total capital (as percentage of risk-weighted assets) OSFI all-in target (%)	18.7	17.6
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

Table 3 ·	Overview	of Rick	Weighted	Assets (OV	11
Table 5:	Overview	OI DISK	vveiantea	Assets (UV	1)

			At		
		30 Sep 2023	30 Jun 2023	30 Sep 2023	
		RWA ⁷	RWA ¹	Capital requirements ²	
		\$m	\$m	\$m	
1	Credit risk (excluding counterparty credit risk)	32,145	32,159	2,572	
2	 of which Standardized approach (SA)³ 	1,484	1,398	119	
3	 of which internal rating based (F-IRB) approach 	7,453	7,445	596	
4	- of which supervisory slotting approach	347	339	28	
5	- of which internal rating based (A-IRB) approach	22,861	22,977	1,829	
6	Counterparty credit risk	511	437	41	
7	 of which Standardized approach for counterparty credit risk (SA-CCR) 	499	427	40	
8	- of which internal model method (IMM)	_	_	_	
9	- of which other CCR	12	10	1	
10	Credit valuation adjustment (CVA) ⁴	262	245	21	
	Equity positions in banking book ⁵	_	_	_	
11	Equity investments in funds – look-through approach	24	24	2	
12	Equity investments in funds – mandate-based approach	_	_	_	
13	Settlement risk	_	_	_	
14	Securitisation exposures in banking book	_	_	_	
15	- of which IRB ratings based approach (RBA)	_	_	_	
16	of which securitisation external ratings-based approach (SEC-ERBA), including internal assessment approach (IAA)	_	_	_	
17	 of which securitisation standardised approach (SEC-SA) 	_	_	_	
18	Market risk	1,058	932	85	
19	- of which Standardized approach (SA)	82	117	7	
20	- of which internal model method (IMM)	976	815	78	
21	Capital charge for switch between trading book and banking book	_	_	_	
22	Operational risk	2,951	2,864	236	
23	Amounts below the thresholds for deduction (subject to 250% risk weight)	_	_	_	
24	Output floor applied	65	65		
25	Floor adjustment (before application of transitional cap)	6,265	7,858	_	
26	Floor adjustment (after application of transitional cap) ⁶	6,265	7,858	501	
27	Total (1 + 6 + 10 + 11 + 12 + 13 + 14 + 18 + 21 + 22 + 23 + 26)	43,216	44,519	3,457	

- 1. RWA includes 6% adjustment to IRB risk-weighted assets for scaling factor which is removed under BASEL III reforms starting Jun 2023
 2. 'Capital requirement' represents the minimum total capital charge set at 8% of RWAs by the OSFI Capital Adequacy Requirements (CAR) guidelines

- Amount includes Other assets not included in standardized or IRB approaches
 Starting O1 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

- Basel 3 Reforms impact can be referred to Notes to users

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 4 : Credit quality of assets (CR1)

Tabi	e 4 : Credit quality of assets (C	ווחל)						
	_	а	b	C	d	е	f	g
		Gross carryi	ng values of		Of which ECL a provisions for cred exposu	lit losses on SA	01 111 501	
		Defaulted exposures	Non - defaulted exposures	Allowances/ impairments	Allocated in regulatory category of Specific	Allocated in regulatory category of General	Of which ECL accounting provisions for credit losses on IRB exposures	Net values (a+b-c)
		\$m	\$m	\$m	\$m	\$m	\$m	\$m
1	Loans	357	82,004	342	-	3	339	82,019
2	Debt securities	_	22,709	_	_	_		22,709
3	Off-balance sheet exposures	137	53,437	39	_	_	39	53,535
4	Total at 30 Sep 2023	494	158,150	381	_	3	378	158,263
1	Loans	369	82,261	339	=	3	336	82,291
2	Debt securities	_	22,924	_	_	_	_	22,924
3	Off-balance sheet exposures	169	52,252	35	_	_	35	52,386
4	Total at 30 Jun 2023	538	157,437	374	_	3	371	157,601

Table 5: Credit risk mitigation techniques – overview (CR3)

	a	b	С	d	е
	Exposures unsecured: carrying amount	Exposures to be secured: carrying amount ²	Exposures secured by collateral	Exposures secured by financial guarantees ³	Exposures secured by credit derivatives
	\$m	\$m	\$m	\$m	\$m
1 Loans	16,354	66,007	63,065	2,942	-
2 Debt securities	11,546	11,163	11,163	-	-
3 Total at 30 Sep 2023	27,900	77,170	74,228	2,942	-
4 Of which defaulted	173	185	185	_	_
1 Loans	16,541	66,089	63,879	2,210	
2 Debt securities	10,902	12,022	12,022	_	
3 Total at 30 Jun 2023	27,443	78,111	75,901	2,210	
4 Of which defaulted	184	184	184	_	

Table 6: Standardized approach – credit conversion factor ('CCF') and credit risk mitigation ('CRM') effects (CR4)

		Exposures be and C		Exposures and C		RWA and R	WA 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	70	_	70	_	32	45
2	Public sector entities (PSEs) ³	_	_	241	_	_	_
3	Multilateral development banks	_	_	_	_	_	_
4	Banks ³	557	_	958	_	192	20
	Of which: securities firms and other financial institutions treated as banks	_	_	401	_	80	20
5	Covered bonds	_	_	_	_	_	_
6	Corporates	689	506	47	51	102	104
	Of which: securities firms and other financial institutions treated as corporates	_	_	_	_	_	_
	Of which: specialised lending	_	_	_	_	_	_
7	Subordinated debt, equity and other capital	11	_	11	_	28	250
8	Retail	20	_	20	_	15	75
12	Defaulted exposures		_	_	_	_	_
13	Other assets	2,305	_	2,305	_	1,115	48
14	Total at 30 Sep 2023	3,652	506	3,652	51	1,484	40
1	Sovereigns and their central banks	120	_	120	_	7	6
2	Public sector entities (PSEs) ³	_	_	241	_	_	
3	Multilateral development banks	_	_	_	_	_	
4	Banks ³	410	_	805	_	161	20
	Of which: securities firms and other financial institutions treated as banks	_	_	395	_	79	20
5	Covered bonds	_	_	_	_	_	_
6	Corporates	682	456	45	46	91	100
	as corporates	_	_	_	_	_	
	Of which: specialised lending	_	_	_	_	_	_
7	Subordinated debt, equity and other capital	11	_	11	_	28	250
8	Retail	21	_	21	_	16	75
12	Defaulted exposures	1	_	_	_	_	_
13	Other assets	1,428		1,428		1,095	77
14	Total at 30 Jun 2023	2,673	456	2,671	46	1,398	52

^{1.} CCF - Credit Conversion Factor, CRM - Credit Risk Mitigation.

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.
 With the implementation of Basel III reforms, parental support is either through PD substitution under guarantees or LGD adjustment under collateral.

^{2.} 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 riskweighted at 100%.

3. Exposures post-CCF and CRM including risk transfer-in amounts.

Table 7: Standardized approach – exposures by asset class and risk weight (CR5)

	Risk weight ('RW') % Asset classes	0 \$m	20 \$m	50 \$m	75 \$m	100 \$m	150 \$m	250 \$m	Total credit exposure amount (post-CCF and post- CRM) \$m
1	Sovereigns and their central banks	38	_	_	_	32	_	_	70
2	Public sector entities (PSEs)	241	_	_	_	_	_	_	241
3	Multilateral development banks	_	_	_	_	_	_	_	_
4	Banks	_	958	_	_	_	_	_	958
_	Of which: securities firms and other financial institutions treated as banks	_	401	_	-	-	-	-	401
5	Covered bonds					_	_		_
6	Corporates			_		91	7		98
_	Of which: securities firms and other financial institutions treated as corporates	_	_	_	_	_	_	_	_
_	Of which: specialised lending	_	_	_	_	_	_	_	_
7	Subordinated debt, equity and other capital	-	-	_	_	_	_	11	11
8	Retail	_	_	_	20		_	-	20
12	Defaulted exposures	_	_	_	_	_	_	-	_
13	Other assets	1,242	_	44	_	960	_	59	2,305
14	Total at 30 Sep 2023	1,521	958	44	20	1,083	7	70	3,703
1	Sovereigns and their central banks	113	_	_	_	7	_	_	120
2	Public sector entities (PSEs)	241	_	_	_	_	_	_	241
3	Multilateral development banks	_	_	_	_	_	_	_	
4	Banks	_	805	_			_	_	805
_	Of which: securities firms and other financial institutions treated as corporates	_	395	_	_	_	_	_	395
5	Covered bonds	_	_	_	_	_	_	_	_
6	Corporates	_	_	_	_	91	_	_	91
_	financial institutions treated as corporates	_	_	_	_	_	_	_	_
_	Of which: specialised lending	_	_	_	_	_	_	_	
7	Subordinated debt, equity and other capital	_	_	_	_	_	_	11	11
8	Retail				21			_	21
12	Defaulted exposures							_	
13	Other assets	408	26	_	_	930	_	64	1,428
14	Total at 30 Jun 2023	762	1,226	_	21	1,028	_	75	3,112

Table 8: Standardized approach – exposures by asset class and risk weight (CR5) Contd.

		а	b	C	d
	Risk weight ('RW') %	On-balance sheet exposure	Off-balance sheet exposure (pre-	Weighted average CCF	Exposures post- CCF and CRM ¹
	mon trongitt (titl) /o	\$m	\$m	.	\$m
1	Less than 40	1,882	Ψιιι	100	2,524
	40-70	1,002		-	2,324
	75	20		100	20
	85	20	_ _	-	
	90–100	1,583	483	52	1,082
	105–130	1,363	403	- 52	-
	150	97	23	6	7
		-		100	
	250	70			70
	400	-			_
	1250	_			_
	Total at 30 Sep 2023	3,652	506	89	3,703
	Less than 40	958		100	1,593
2	40–70	_	_	_	
3	75	21	_	100	21
4	85	_	_	_	_
5	90–100	1,619	456	63	1,028
6	105–130	_	_	_	_
7	150	_	_	_	_
8	250	75	_	100	75
9	400	_	_	_	_
10	1250	_	_	_	
11	Total at 30 Jun 2023	2,673	456	87	2,717

^{1.} Exposures post-CCF and CRM includes risk transfer-in amounts.

Table 9: A-IRB – Credit risk exposures by portfolio and PD range (CR6)

	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	26,143	1,467	97	26,718	0.01	85	7.2	1.59	176	0.7	-	1
0.15 to <0.25	-	3	33	1	0.22	1	52.0	1.00	-	-	-	-
0.25 to <0.50	_	1	_	_	0.37	3	26.3	1.00	_	_	_	_
0.50 to <0.75	_	_	_	_	_	_	_	_	_	_	_	_
0.75 to <2.50	115	2	99	116	2.12	7	10.1	3.02	7	6.0	_	_
2.50 to <10.00	_	_	_	_	_	_	_	_	_	_	_	_
10.00 to <100.00	_	_	_	_	_	_	_	_	_	_	_	_
100.00 (Default)	_	_	_	_	_	_	_	_	_	_	-	_
Sub-total	26,258	1,473	97	26,835	0.02	96	7.2	1.60	183	0.7	_	1
Corporates												
0.00 to <0.15	1,560	1,727	63	2,068	0.12	326	33.0	1.82	460	22.2	1	1
0.15 to <0.25	2,752	3,289	62	3,721	0.23	1,043	30.5	1.79	1,089	29.3	3	3
0.25 to <0.50	5,903	4,177	70	7,056	0.39	983	30.1	1.50	2,469	35.0	8	5
0.50 to <0.75	4,843	3,793	69	5,986	0.67	863	31.4	1.57	2,776	46.4	11	8
0.75 to <2.50	11,515	6,820	75	13,803	1.63	2,527	35.8	1.67	8,426	61.0	49	27
2.50 to <10.00	2,225	999	80	2,589	4.99	530	32.6	1.55	2,340	90.5	33	20
10.00 to <100.00	396	171	78	445	15.93	122	25.0	1.46	561	126.1	19	11
100.00 (Default)	251	65	85	268	100.00	70	33.1	1.06	374	139.6	123	123
Sub-total	29,445	21,041	71	35,936	2.15	6,464	32.8	1.62	18,495	51.5	247	198
Wholesale AIRB - Total at 30 Sep 2023	55,703	22,514	80	62,771	1.24	6,560	21.9	1.61	18,678	29.8	247	199

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

	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
Banks												
0.00 to <0.15	1,783	714	88	2,195	0.06	162	29.7	1.95	313	14.3	_	_
0.15 to <0.25	4	6	70	7	0.22	11	45.0	0.12	2	28.6	_	_
0.25 to <0.50	7	14	38	8	0.37	2	45.0	0.93	4	50.0	-	_
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	1,794	734	87	2,210	0.06	175	29.8	1.94	319	14.4	-	_
Corporates												
0.00 to <0.15	2,951	9,764	50	6,312	0.10	407	38.2	1.87	1,242	19.6	2	2
0.15 to <0.25	982	1,642	58	1,515	0.23	214	35.6	2.29	533	35.2	1	2
0.25 to <0.50	1,300	1,251	65	1,669	0.44	237	34.9	2.27	692	41.5	2	1
0.50 to <0.75	1,095	1,833	64	1,885	0.70	104	39.3	2.13	1,038	55.1	4	8
0.75 to <2.50	3,343	5,397	61	5,358	1.50	483	36.3	1.97	2,978	55.6	16	20
2.50 to <10.00	280	293	69	396	4.32	68	30.5	2.41	421	106.3	5	4
10.00 to <100.00	67	111	65	115	12.47	15	39.9	2.38	206	179.1	5	8
100.00 (Default)	6	48	69	37	100.00	9	38.4	0.96	24	64.9	10	8
Sub-total	10,024	20,339	57	17,287	1.04	1,537	37.0	2.02	7,134	41.2	45	53
Wholesale FIRB - Total at 30 Sep 2023	11,818	21,073	59	19,497	0.93	1,712	36.2	2.01	7,453	38.2	45	53

Table 11: A-IRB – Credit risk exposures by portfolio and PD range (CR6) (continued)

	Original											
	on-	Off-		FAD								
	balance sheet	balance sheet		EAD post-CRM		Number						
	gross exposure	exposure pre-CCF	Average CCF	and post- CCF	Average PD	of obligors	Average LGD	Average maturity	RWA	RWA density	Expected loss	Provisions
PD scale	\$m	\$m	%	\$m	%	obligois	%	years	\$m	%	\$m	\$m
Retail Residential												
Mortgages												
0.00 to <0.15	20,268		100	20,268	0.05	44,416	19.4	_	561	2.8	2	25
0.15 to <0.25	8,417		100	8,417	0.16	15,052	20.7		596	7.1	3	24
0.25 to <0.50	1,461		100	1,461	0.28	3,025	18.7	_	146	10.0	1	3
0.50 to <0.75 0.75 to <2.50	1,662 296		100	1,662 296	0.58 2.05	3,000 572	20.5		301 133	18.1 44.9	1	9
2.50 to <10.00	696		100	696	3.08	1,321	19.4		348	50.0	4	
10.00 to <100.00	154		100	154	17.73	272	19.3		158	102.7	5	4
100.00 (Default)	72		100	72	100.00	95	35.2		185	257.2	11	17
Sub-total	33,026	_	100	33,026	0.50	67,753	19.8	_	2,428	7.4	29	86
HELOC												
0.00 to <0.15	797	4,225	73	3,672	0.05	22,585	12.7	_	68	1.9	_	1
0.15 to <0.25	1	_	100	1	0.18	3	15.3	_	_	0.0	_	_
0.25 to <0.50	302	155	98	446	0.29	2,407	13.2	-	32	7.2	-	1
0.50 to <0.75	1	_	100	1	0.65	3	16.3	_	_	14.3	_	_
0.75 to <2.50	138	13	115	173	1.02	946	13.5	_	30	17.4	_	2
2.50 to <10.00	83	51	98	132	6.36	654	13.0	_	65	48.9	1	1
10.00 to <100.00	14	12	94	24	31.13	106	14.9		21	86.5	1	
100.00 (Default)	7	17	32	8	100.00	109	36.5		21	269.7	1	
Sub-total	1,343	4,473	77	4,457	0.64	26,813	12.8		237	5.3	3	5
Retail Qualifying revolving exposures												
0.00 to <0.15	186	3,084	98	3,198	0.07	189,295	86.0		120	3.8	2	2
0.15 to <0.25	92	698	96	757	0.21	71,792	87.2		74	9.8	1	1
0.25 to <0.50	_	_	_	_	_	_	_	_	_	_	_	
0.50 to <0.75	81	194	98	269	0.58	32,082	88.6	_	60	22.3	1	2
0.75 to <2.50	90	73	100	162	1.34	19,164	89.9	_	70	43.0	2	3
2.50 to <10.00	113	44	99	156	4.19	18,576	89.8	-	149	95.6	6	8
10.00 to <100.00	35	11	95	43	21.97	5,517	88.3	_	91	209.0	8	5
100.00 (Default)	4	5	49	5	100.00	1,107	81.1	_	11	237.5	3	3
Sub-total	601	4,109	97	4,590	0.62	337,533	86.6	_	575	12.5	23	24
Retail SME												
0.00 to <0.15 0.15 to <0.25	3	22	95 88	23 84	0.09	803	92.2 75.0		5 28	21.4 32.8		
0.15 to <0.25 0.25 to <0.50	4	93	102	13	0.22	1,889 177	37.1		3	22.9		
0.50 to <0.75	2	2	102	3	0.58	398	99.5		3	76.5		
0.75 to <2.50	181	18	99	197	1.92	1,591	57.5		142	73.1	2	2
2.50 to <10.00	2	2	93	4	6.28	207	65.2	_	4	97.4		
10.00 to <100.00	18	7	114	28	16.66	852	66.9	_	35	125.1	3	1
100.00 (Default)	3	_	97	3	100.00	319	67.6	_	3	103.2	_	2
Sub-total	215	153	97	355	3.39	6,236	64.5	_	223	62.9	5	5
Retail Other												
0.00 to <0.15	47	512	88	491	0.05	7,916	67.7		78	15.9		_
0.15 to <0.25	99	136	93	219	0.16	2,484	55.8		72	33.0		
0.25 to <0.50	698	2	100	700	0.30	4,288	36.5		237	33.8	1	2
0.50 to <0.75	51	14	98	64	0.59	738	50.4		37	57.9		1
0.75 to <2.50	241	19	99	257	1.77	6,946	41.3		171	66.5	2	1
2.50 to <10.00	48	7	99	54	4.33	387	42.6		59	107.9	1	1
10.00 to <100.00 100.00 (Default)	17 14	3 1	179 93	36 14	28.73 100.00	6,172 4,428	51.3 81.0	<u>-</u> _	61 5	171.5 39.1	6	1
Sub-total	1,215	694	96	1,835	1.85	33,359	49.1		720	39.1	16	6
- Cub-total	1,213	034	30	1,000	1.03	55,555	43.1		720	33.3	10	- 0
Total Retail at 30 Sep 2023	36,400	9,429	96	44,263	0.60	471,694	27.6	_	4,183	9.5	77	126

Table 12: AIRB – Credit risk exposures by portfolio and PD range (CR6)

	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	26,111	1,457	9,679	26,683	0.01	86	7.0	1.71	189	0.7	_	1
0.15 to <0.25	_	_	_	_	_	_	_	-	_	_	_	_
0.25 to <0.50	1	1	6,111	1	0.37	3	38.0	2.00	1	45.5	_	_
0.50 to <0.75	_	_	_	_	_	_	_	-	_	_	_	_
0.75 to <2.50	165	2	9,922	166	2.16	6	10.0	3.40	10	6.2	_	_
2.50 to <10.00	_	_	_	_	_	_	_	_	_	_	_	_
10.00 to <100.00	_	_	_	_	_	_	_	_	_	_	_	_
100.00 (Default)	_	_	_	_	_	_	_	_	_	_	_	_
Sub-total	26,277	1,460	39	26,850	0.02	95	7.0	1.72	200	0.7	_	1
Corporates												
0.00 to <0.15	1,937	2,000	6,574	2,588	0.10	326	40.4	1.88	597	23.1	1	4
0.15 to <0.25	3,721	3,073	6,984	4,744	0.22	1,043	34.1	1.72	1,407	29.7	4	3
0.25 to <0.50	6,436	3,671	7,448	7,528	0.37	983	32.2	1.57	2,664	35.4	9	8
0.50 to <0.75	4,710	3,424	7,117	5,785	0.63	863	33.1	1.64	2,805	48.5	11	9
0.75 to <2.50	11,408	7,201	7,354	13,689	1.30	2,527	33.3	1.53	8,424	61.5	50	35
2.50 to <10.00	1,749	1,128	7,428	2,137	4.73	530	32.0	1.25	1,931	90.3	30	21
10.00 to <100.00	331	235	7,253	411	13.51	122	31.0	1.21	503	122.5	17	10
100.00 (Default)	273	106	7,805	296	100.00	70	47.3	1.21	527	178.0	121	121
Sub-total	30,565	20,838	7,233	37,178	1.90	6,464	33.7	1.58	18,858	50.7	243	211
Wholesale AIRB - Total at 30 Jun 2023	56,842	22,298	8,100	64,028	1.12	6,559	22.0	1.64	19,058	29.8	243	212

Table 13: F-IRB – Credit risk exposures by portfolio and PD range (CR6)

	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
Banks												
0.00 to <0.15	1,764	784	87	2,218	0.06	162	30.8	2.07	337	15.2	_	_
0.15 to <0.25	12	1	98	12	0.22	11	45.0	0.16	4	31.2	_	_
0.25 to <0.50	5	20	27	7	0.37	2	45.0	1.00	4	53.9	_	_
0.50 to <0.75	1	_	91	1	0.63	3	40.3	0.42	_	58.3	_	_
0.75 to <2.50	_	_	0	_	0	_	0.0	_	_	0.0	_	_
2.50 to <10.00	2	_	100	2	3.05	2	45.0	2.50	3	157.7	_	_
10.00 to <100.00	_	_	_	_	_	_	_	_	_	_	_	_
100.00 (Default)	_	_	_	_	_	_	_	_	_	_	_	_
Sub-total	1,784	805	87	2,240	0.07	180	30.9	2.06	348	15.5	_	_
Corporates												
0.00 to <0.15	2,890	9,018	53	6,266	0.09	407	36.6	1.84	1,245	19.9	2	3
0.15 to <0.25	1,536	2,514	57	2,290	0.22	214	34.4	2.26	825	36.0	2	2
0.25 to <0.50	1,481	1,690	64	2,040	0.37	237	34.9	2.62	1,050	51.5	3	3
0.50 to <0.75	921	1,198	70	1,481	0.63	104	34.6	2.04	742	50.1	3	6
0.75 to <2.50	2,245	4,764	56	3,911	1.43	483	34.0	1.94	2,468	63.3	15	13
2.50 to <10.00	322	320	69	442	4.07	68	32.0	1.95	445	100.6	6	4
10.00 to <100.00	127	58	86	158	12.83	15	40.0	1.55	279	176.9	8	5
100.00 (Default)	12	44	79	44	100.00	9	40.0	1.00	43	98.3	10	7
Sub-total	9,534	19,606	57	16,632	0.98	1,537	35.2	2.03	7,097	39.5	49	43
Wholesale FIRB - Total at 30 Jun 2023	11,318	20,411	59	18,872	0.89	1,717	34.7	2.04	7,445	39.5	49	43

Table 14: A-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	LGD	Average maturity	RWAs	RWA density	Expected loss	Provisions
PD scale	\$m	\$m	%	\$m	%		%	years	\$m	%	\$m	\$m
Patail Pasidential Martagage												
Retail Residential Mortgages 0.00 to <0.15	20,030		100	20,030	0.05	44,205	19.6		557	2.8	2	22
0.00 to <0.15 0.15 to <0.25	8,534		100	8,534	0.05	15,227	20.8		607	7.1	3	29
0.15 to <0.25 0.25 to <0.50	1,493		100	1,493	0.10	3,071	18.8		150	10.0	1	3
0.50 to <0.75	1,493		100	1,493	0.28	2,985	20.9		313	18.4	2	8
0.75 to <2.50	310		100	310	2.07	564	21.9		138	44.4	1	0
2.50 to <10.00	704		100	704	3.06	1,373	19.7		355	50.3	4	
10.00 to <100.00	140		100	140	17.80	264	19.7		146	104.4	5	3
100.00 (Default)	60		100	60	100.00	91	35.0		2	2.5	21	14
Sub-total	32,968		100	32,968	0.46	67,780	20.0	_	2,268	6.9	39	83
	02,000		100	02,000	0.10	07,700	20.0		2,200	0.0		
HELOC												
0.00 to <0.15	823	4,179	73	3,669	0.05	22,663	13.1	_	71	1.9	0	2
0.15 to <0.25	_		100		0.18	2	15.5	_	0	0.0	0	0
0.25 to <0.50	307	158	97	453	0.29	2,477	13.5	_	33	7.3	0	1
0.50 to <0.75	3	_	100	3	0.56	3	15.5	_	0	12.5	0	0
0.75 to <2.50	127	17	113	163	1.02	903	13.6	_	29	17.7	0	1
2.50 to <10.00	95	58	98	150	6.26	711	13.3	_	74	49.3	1	1
10.00 to <100.00	8	10	89	17	31.01	82	13.8	_	14	81.3	1	0
100.00 (Default)	7	12	41	8	100.00	102	32.5	_	0	5.3	2	1
Sub-total	1,370	4,434	77	4,463	0.60	26,943	13.2	_	221	5.0	4	6
Retail Qualifying revolving												
0.00 to <0.15	181	2,982	98	3,090	0.07	182,239	85.8	_	116	3.7	2	1
0.15 to <0.25	89	679	96	734	0.21	69,330	86.9	_	71	9.7	1	1
0.25 to <0.50	_	_	0	_	0.00	_	0.0	_	0	0.0	0	0
0.50 to <0.75	80	188	98	262	0.58	31,647	88.4		58	22.3	1	2
0.75 to <2.50	89	70	100	159	1.34	19,108	89.8		68	42.7	2	3
2.50 to <10.00	110	44	99	153	4.20	18,399	89.7		146	95.6	6	8
10.00 to <100.00	32	9	95	39	21.18	5,056	88.1		81	206.4	7	4
100.00 (Default)	4	5	51	5	100.00	1,082	81.0	_	13	268.8	3	2
Sub-total	585	3,977	97	4,442	0.60	326,861	86.4		553	12.4	22	21
Retail SME												
0.00 to <0.15	2	21	96	22	0.09	779	93.4		5	21.7	0	0
0.00 to <0.15 0.15 to <0.25	3	88	88	80	0.03	1,912	75.7		26	33.1	0	0
0.25 to <0.50	3	8	105	12	0.22	170	37.2		3	23.0	0	0
0.50 to <0.75	2	2	100	4	0.58	420	100.0		3	78.4	0	0
0.75 to <2.50	183	19	99	199	1.92	1,643	56.8		144	72.4	2	
2.50 to <10.00	3	2	93	4	6.24	205	65.3		4	97.3	0	0
10.00 to <100.00	16	6	113	25	15.54	827	66.2		31	121.3	3	1
100.00 (Default)	3		97	3	100.00	392	67.4	_	3	100.0	0	2
Sub-total	215	146	97	_	3.20	6,348	64.1	_	219	62.6	0	
Retail Other						-						
0.00 to <0.15	50	488	88	473	0.05	7,900	66.7	_	71	15.0	0	0
0.15 to <0.25	92	113	93	191	0.15	2,571	54.0	_	61	31.8	0	0
0.25 to <0.50	668	1	100	669	0.30	4,328	37.2	_	230	34.4	1	2
0.50 to <0.75	60	11	100	71	0.59	793	48.6	_	46	65.3	0	0
0.75 to <2.50	208	2	100	210	1.81	7,647	42.5	_	139	66.2	2	1
2.50 to <10.00	41	7	98	47	4.39	398	43.7	_	48	102.6	1	1
10.00 to <100.00	19	4	148	33	28.29	6,106	48.6	_	59	177.4	5	1
100.00 (Default)	8	2	80	8	100.00	4,708	89.8	_	4	52.4	7	1
Sub-total	1,146	628	96	1,702	1.55	34,451	49.1	_	658	38.7	16	0
T. (D.)		<u> </u>			a =:	400						
Total Retail at 30 Jun 2023	36,284	9,185	97	43,575	0.55	462,383	28.0		3,919	9.0	81	110

Table 15: RWA flow statements of credit risk exposures under the IRB approach (CR8)

		а
		RWA
		amounts
1	RWA at the beginning of the period - 1 July 2023	30,422
2	Asset size ¹	(256)
3	Asset quality	148
4	Model updates	_
5	Methodology and policy ²	_
6	Acquisitions and disposals	_
7	Foreign exchange movements	_
8	Other ³	_
9	RWA at the end of the period - 30 Sep 2023	30,314

Table 16: Specialized lending on slotting approach and Equities under simple risk-weight method (CR10)

					Specialize	d Lending -	Other than	HVCRE ²			
		On- balance sheet amount	Off- balance sheet amount	Risk weight		Ехро	sure amou	nt			Expected
D 1.				_	PF ²	OF	CF	IPRE	Total	RWA	loss
Regulatory categories 1	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	436	52	70	360	_	_	128	488	342	2
Good	Less than 2.5 years	_	_	70	_	_	_	_	_	_	_
	Equal to or more than 2.5 years	-	_	90	-	_	_	-	_	_	-
Satisfactory		4	_	115	-	_	_	4	4	5	_
Weak		-	-	250	-	-	-	-	-	_	-
Default		-	_	0	-	-	-	-	-	_	-
	Total at 30 Sep 2023	440	52		360	-	-	132	492	347	2
Strong	Less than 2.5 years	_	_	50	_	_	_	_	_	_	_
	Equal to or more than 2.5 years	404	72	70	358	_	_	118	476	333	1
Good	Less than 2.5 years	_	_	70	_	_	_	_	_	_	_
	Equal to or more than 2.5 years	1	_	90	_	_	_	1	1	_	_
Satisfactory		4	1	115	_	_	_	5	5	6	_
Weak		_	_	250	_	_	_	_	_	_	_
Default		_	_	0	_	_	_	_	_	_	_
	Total at 30 Jun 2023	409	73		358	_	_	124	482	339	2

Foreign exchange movements are embedded in the asset size
 Primarily impact of Basel III reforms on IRB Risk weighted Assets
 Firm-size adjustment for corporate SMEs is resumed

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

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

		а	b	C	d	е	f
		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)	395	1,021	_	1.4	1,982	483
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)	_	_	_	_	119	16
5	VaR for SFTs	_	_	_	_	_	_
6	Total at 30 Sep 2023	395	1,021	_	1.4	2,101	499
1	SA-CCR (for derivatives)	263	1,011	_	1.4	1,783	414
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)	_	_	_	_	107	13
5	VaR for SFTs	_	_	_	_	_	
6	Total at 30 Jun 2023	263	1,011	_	1.4	1,890	427

Table 18: Credit valuation adjustment (CVA) capital charge (CCR2)

rabie	18: Credit valuation adjustment (CVA) capital charge (CCR2)				
		At 30 Sep 2	2023	At 30 Jun 20)23
		EAD post- CRM	RWA	EAD post- CRM	RWA
		\$m	\$m	\$m	\$m
1	Total portfolios subject to the Advanced CVA capital charge	-	_	_	_
2	– VaR component (including the 3 × multiplier)	_	_	_	_
3	- Stressed VaR component (including the 3 × multiplier)	_	_	_	_
4	All portfolios subject to the Standardized CVA capital charge	1,388	262	1,249	245
5	Total subject to the CVA capital charge	1,388	262	1,249	245

^{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 19: CCR exposures by portfolio and PD scale - AIRB (CCR4)

PD scale	EAD post- CRM \$m	Average PD	Number of obligors	Average LGD	Average maturity	RWA \$m	RWA density
Sovereign	φm	70		70	years	φiii	70
0.00 to <0.15	423	0.02	55	10.0	0.54	5	110.0
0.15 to <0.25	-	0.63	1	10.0	1.50		14.4
0.25 to <0.50		- 0.03		-	- 1.50		-
0.50 to <0.75							
0.50 to <0.75	_						
	_						_
2.50 to <10.00	_						
10.00 to <100.00	_						_
100.00 (Default)	_	_	_	_	_	_	_
Sub-total	423	0.02	56	10.0	0.54	5	1.1
Corporates							
0.00 to <0.15	81	0.06	28	52.0	0.83	10	12.8
0.15 to <0.25	52	0.22	69	52.0	1.38	21	41.0
0.25 to <0.50	12	0.37	49	52.0	1.67	7	59.1
0.50 to <0.75	50	0.63	47	52.0	1.21	34	67.9
0.75 to <2.50	41	1.47	137	52.0	1.87	45	110.0
2.50 to <10.00	19	5.68	19	52.0	1.02	30	160.2
10.00 to <100.00	2	10.40	9	52.0	1.00	4	196.3
100.00 (Default)	-	_	_	_	_	_	0.0
Sub-total	257	0.93	358	52.0	1.24	151	59.0
AIRB Total at 30 Sep 2023	680	0.36	414	26.0	0.80	156	23.0

Table 20: CCR exposures by portfolio and PD scale - FIRB (CCR4)

PD scale	EAD post- CRM \$m	Average PD %	Number of obligors	Average LGD	Average maturity years	RWA \$m	RWA density
Banks							
0.00 to <0.15	649	0.05	32	45.0	1.08	104	16.0
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	649	0.05	32	45.0	1.08	104	16.0
Corporates							
0.00 to <0.15	394	0.07	188	43.0	0.80	55	14.0
0.15 to <0.25	221	0.22	45	40.0	1.57	76	34.3
0.25 to <0.50	51	0.37	19	40.0	1.33	24	46.5
0.50 to <0.75	28	0.63	31	44.0	1.01	16	57.3
0.75 to <2.50	76	1.35	122	42.0	1.06	67	87.9
2.50 to <10.00	1	4.71	3	40.0	1.00	1	114.4
10.00 to <100.00	_	_	_	_	_	_	0.0
100.00 (Default)	_	_	_	_	_	_	0.0
Sub-total	771	0.28	408	42.0	1.09	239	31.0
FIRB - Total at 30 Sep 2023	1,420	0.18	440	43.0	1.09	343	24.1

Table 21: CCR exposures by portfolio and PD scale - AIRB (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	485	0.02	54	10.0	0.36	3	0.6
0.15 to <0.25	1	0.63	1	10.0	1.75	_	15.1
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	486	0.02	55	10.0	0.36	3	0.7
Corporates							
0.00 to <0.15	73	0.06	31	52.0	1.02	10	14.2
0.15 to <0.25	209	0.22	60	52.0	2.08	85	40.8
0.25 to <0.50	15	0.37	54	52.0	1.84	9	61.4
0.50 to <0.75	39	0.63	57	52.0	1.30	27	69.8
0.75 to <2.50	57	1.46	135	52.0	1.72	61	106.4
2.50 to <10.00	6	5.43	16	52.0	1.10	9	155.9
10.00 to <100.00	1	11.45	10	52.0	1.00	3	211.4
100.00 (Default)	_	_	_	_	_	_	
Sub-total Sub-total	401	0.52	363	52.0	1.73	205	51.1
Grand-total at 31 Dec 2022	886	0.24	414	29.0	0.98	208	23.4

Table 22: CCR exposures by portfolio and PD scale - FIRB (CCR4)

PD scale	EAD post- CRM	Average PD	Number of obligors	Average LGD	Average maturity	RWA	RWA density
	\$m	%	· ·	%	years	\$m	%
Banks							
0.00 to <0.15	554	0.05	25	45	0.99	84	15.2
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	554	0.05	25	45.0	0.99	84	15.2
Corporates							
0.00 to <0.15	267	70,000.00	187	42.0	0.89	41	15.2
0.15 to <0.25	69	0.22	44	40.8	0.89	20	29.9
0.25 to <0.50	35	0.37	21	40.0	1.41	15	43.4
0.50 to <0.75	25	0.63	31	42.8	0.93	14	56.1
0.75 to <2.50	54	1.28	130	41.1	1.20	45	83.0
2.50 to <10.00	1	5.70	2	40.0	1.00	1	123.5
10.00 to <100.00	_	13.00	1	40.0	1.00	_	173.3
100.00 (Default)	_	_	_	_	_	_	0.0
Sub-total	450	0.30	408	41.6	0.97	136	30.1
FIRB - Total at 30 Jun 2023	1,420	0.18	440	43.0	1.09	343	24.1

Table 23: Composition of collateral for CCR exposure (CCR5)

		Coll	ateral used in der	ivative transact	ions	Collateral us	ed in SFTs
			alue of received		alue of collateral	Fair value of collateral	Fair value of posted
		Segregated	Unsegregated	Segregated	Unsegregated	received	collateral \$m
		\$m	\$m	\$m	\$m	\$m	
1	Cash – domestic currency	_	22	_	745	_	_
2	Cash – other currencies	_	453	_	27	_	-
3	Domestic sovereign debt	_	19	30	259	_	55
4	Other sovereign debt	_	14	_	_	_	-
5	Government agency debt	_	_	_	_	_	-
6	Corporate bonds	_	_	_	_	_	-
7	Equity securities	_	_	_	_	_	-
8	Other collateral	_	_	_	_	_	-
9	Total at 30 Sep 2023	_	508	30	1,031	_	55
1	Cash – domestic currency		19		635		
2	Cash – other currencies	_	240	_	52	_	_
3	Domestic sovereign debt	_	114	38	105	_	47
4	Other sovereign debt	_	_	_	_	_	_
5	Government agency debt	_	_	_	_	_	_
6	Corporate bonds	_	_	_	_	_	_
7	Equity securities	-	_	_	_	_	_
8	Other collateral	-	_	_	_	_	_
9	Total at 30 Jun 2023	-	373	38	792	_	47

Table 24: Exposures to central counterparties (CCPs) - CCR8

		At 30 Sep 2	023	At 30 Jun 2023	
		EAD post- CRM	RWA	EAD post-CRM	RWA
		\$m	\$m	\$m	\$m
1	Exposures to QCCPs (total)	427	12	348	10
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	354	8	282	5
3	– OTC derivatives	351	8	279	5
4	 exchange-traded derivatives 	-	-	1	_
5	 securities financing transactions 	3	-	2	2
6	 netting setts where cross-products netting has been approved 	_	-	_	_
7	Segregated initial margin	55	1	47	1
8	Non-segregated initial margin			19	_
9	Pre-funded default fund contributions	18	3	19	4
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	- exchange-traded derivatives	_	_	_	
15	- securities financing transactions	_	_	_	
16	- netting setts where cross-products netting has been approved	_	_	_	
17	Segregated initial margin	_	_	_	_
18	Non-segregated initial margin	_	_	_	
19	Pre-funded default fund contributions	_	_	_	
20	Unfunded default fund contributions	_	_	_	_

^{1.} 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.

Table 25: Market risk under standardised approach (MR1)

			At	
		30 Sep 2023	30 Jun 2023	30 Sep 2023
		RWA	RWA	Capital requirements
		\$m	\$m	\$m
	Outright products			
1	Interest rate risk (general and specific)	82	117	7
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	82	117	7

Table 26: 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 Jul 2023	397	397	21	815
2	Movement in risk levels ¹	91	91	(21)	161
3	Model updates/changes	_	_	_	_
4	Methodology and policy	_	_	_	_
8	RWA at the end of the period - 30 Sep 2023	488	488	_	976

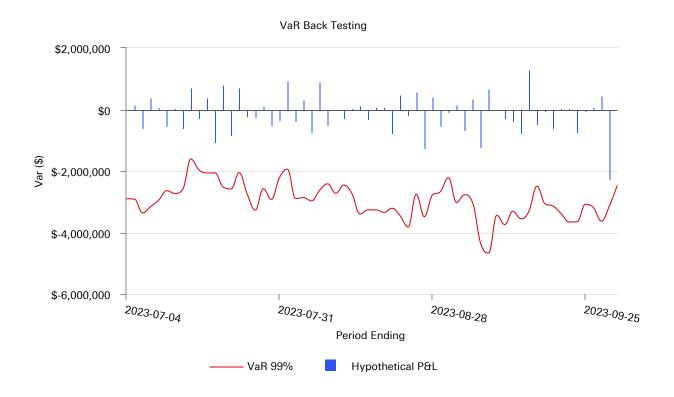
^{1.} Movement due to position changes; foreign exchange movements are embedded in the movement in risk levels

Table 27: IMA values for trading portfolios¹ (MR3)

Table	27. IVIA values for trading portions (IVITIS)		
		At	
		30 Sep 2023	30 Jun 2023
		\$'000	\$'000
VaR			
1	Maximum value	21,057	19,171
2	Average value	13,016	10,587
3	Minimum value	6,139	3,966
4	Period end	13,105	122,203
Stress	ed VaR		
5	Maximum value	14,547	16,319
6	Average value	10,202	9,940
7	Minimum value	7,553	5,709
8	Period end	14,547	10,260
Incren	nental Risk Charge		
9	Maximum value	-	_
10	Average value	-	_
11	Minimum value	-	_
12	Period end	-	_
Comp	rehensive 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 third quarter of the year.

Table 28: Comparison of VaR estimates with gains/losses (MR4)



Leverage

Table 29: Summary comparison of accounting assets vs. leverage ratio exposure measure (LR1)

	_	At	
		30 Sep 2023	30 Jun 2023
		\$m	\$m
1	Total consolidated assets as per published financial statements	119,533	121,146
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	(4,519)	(4,517)
6	Adjustment for securities financing transactions (i.e. repurchase agreements and similar secured lending)	44	16
7	Adjustment for off-balance sheet items (i.e. conversion to credit equivalent amounts of off-balance sheet exposures)	14,549	14,430
8	Other adjustments ¹	560	152
9	Leverage ratio exposure measure	130,167	131,227

^{1.} With OSFI pandemic relief ended, central bank reserve are included in leverage exposures starting April 1, 2023. Asset amounts deducted in determining Basel III Tier 1 capital are also included as a deduction.

Table 30: Leverage Ratio Common Disclosure Template (LR2)

	-	At		
		30 Sep 2023	30 Jun 2023	
		\$m	\$m	
	On-balance sheet exposures			
1	On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral) ¹	110,015	110,592	
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)	(772)	(687)	
4	(Asset amounts deducted in determining Basel III Tier 1 capital)	560	511	
5	Total on-balance sheet exposures (excluding derivatives and SFTs) (Sum of lines 1 to 4)	109,803	110,416	
	Derivative exposures			
6	Replacement cost associated with all derivative transactions (i.e. net of eligible cash variation margin)	836	562	
7	Add-on amounts for PFE associated with all derivative transactions	1,498	1,500	
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)	2,334	2,062	
	Securities financing transaction exposures			
12	Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting			
	transactions	5,054	5,997	
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(1,617)	(1,694)	
14	Counterparty credit risk (CCR) exposure for SFTs	44	16	
15	Agent transaction exposures	_	_	
16	Total securities financing transaction exposures (sum of lines 12 to 15)	3,481	4,319	
	Other off-balance sheet exposures			
17	Off-balance sheet exposure at gross notional amount	53,584	52,430	
18	(Adjustments for conversion to credit equivalent amounts)	(39,035)	(38,000)	
19	Off-balance sheet items (sum of lines 17 and 18)	14,549	14,430	
	Capital and Total Exposures			
20	Tier 1 capital	7,058	6,818	
21	Total Exposures (sum of lines 5, 11, 16 and 19)	130,167	131,227	
	Leverage Ratios (%)			
22	Leverage ratio	5.4	5.2	

^{1.} With OSFI pandemic relief ended, central bank reserve are included in leverage exposures starting April 1, 2023. Asset amounts deducted in determining Basel III Tier 1 capital are also included as a deduction.

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.
- Foundation Internal Ratings Based (FIRB) approach for credit risk Under this approach, banks use their own estimates of PD and their own calculation of maturity (M) and rely on supervisory estimates for other risk components.
- . 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