

2022

HSBC Bank Canada

Regulatory Capital & Risk Management

Pillar 3 Supplementary Disclosures

As at June 30, 2022



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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 2021 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 2021 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 Q2 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. Starting 1 January 2022, banks are required to include the aforementioned HQLA securities in their leverage ratio exposure measures, as OSFI concluded in August 2021 that the level of uncertainty in the outlook for economic and financial conditions has now reduced. Meanwhile, banks can continue to exclude central bank reserves from their leverage ratio exposure measures until otherwise notified. 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.

Effective from Q1 2022 filing, OSFI updated the Reporting Manual for Basel Capital Adequacy Reporting (BCAR) with changes in the reporting of Risks not in VaR (RNIV). Banks should apply a similar methodology as is applied in the determination of Stressed VaR, with a multiplier of 3.

Road map to Pillar 3 disclosure requirement

Section	Identifier	Table and templates	Frequency	2021 Annual Report
Capital disclosure	CC1	Composition of Regulatory Capital	Quarterly	
Overview of risk management	OVA	Bank risk management approach	Annually	35-39
	OV1	Overview of RWA	Quarterly	
Linkages between financial statements and regulatory exposures	LI1	Differences between accounting and regulatory scopes of consolidation and mapping of financial statements with regulatory risk categories	na ¹	
	LI2	Main sources of differences between regulatory exposure amounts and carrying values in financial statements		
	LIA	Explanations of differences between accounting and regulatory exposure amounts		
Credit risk	CRA	General information about credit risk	Annually	39-41
	CR1	Credit quality of assets	Semi-annually	47-49
	CR2	Changes in stock of defaulted loans and debt securities	na ¹	
	CRB	Additional disclosure related to the credit quality of assets	Annually	
	CRC	CRC – Qualitative disclosure requirements related to credit risk mitigation techniques	Annually	54-55
	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 ¹	
	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 ¹	
	CR6	IRB Credit risk exposures by portfolio and PD range	Semi-annually	
	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	na ¹	
	CR10	IRB (specialized lending and equities under the simple risk weight method)	Semi-annually	
Counterparty credit risk	CCRA	Qualitative disclosure related to counterparty credit risk	Annually	81-82
	CCR1	Analysis of counterparty credit risk (CCR) exposure by approach	Semi-annually	
	CCR2	Credit valuation adjustment (CVA) capital charge	Semi-annually	
	CCR3	Standardized approach of CCR exposures by regulatory portfolio and risk weights	na ²	
	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 ¹	
	CCR7	RWA flow statements of CCR exposures under the Internal Model Method (IMM)	na ²	
Securitization	SECA	Qualitative disclosure requirements related to securitization exposures	na ²	
	SEC1	Securitization exposures in the banking book		
	SEC2	Securitization exposures in the trading book		
	SEC3	Securitization exposures in the banking book and associated regulatory capital requirements – bank acting as originator or as sponsor		
	SEC4	Securitization exposures in the banking book and associated capital requirements – bank acting as investor		
Market risk	MRA	Qualitative disclosure requirements related to market risk	Annually	
	MRB	Qualitative disclosures for banks using the Internal Models Approach (IMA)	Annually	
	MR1	Market risk under standardised approach	Semi-annually	
	MR2	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	
Leverage Ratio	LR1	Summary comparison of accounting assets vs. leverage ratio exposure measure	Quarterly	
	LR2	Leverage Ratio Common Disclosure Template	Quarterly	

1. 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

2. Table does not have any reportable values as at 30th June 2022

Table 1 : Composition of Regulatory Capital (CC1)

		All-in Basis ¹	
		At	
		30 Jun 2022	31 Mar 2022
Common Equity Tier 1 capital: instruments and reserves (\$m)			
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	4,160	4,101
3	Accumulated other comprehensive income (and other reserves)	(618)	(383)
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	4,667	4,843
Common Equity Tier 1 capital: regulatory adjustments (\$m)			
28	Total regulatory adjustments to Common Equity Tier 1	122	(15)
29	Common Equity Tier 1 capital (CET1)	4,789	4,828
29a	Common Equity Tier 1 capital (CET1) with transitional arrangements for ECL provisioning not applied	4,781	4,828
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	<i>of which: instruments issued by subsidiaries subject to phase out</i>	—	—
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)	5,889	5,928
45a	Tier 1 capital with transitional arrangements for ECL provisioning not applied	5,881	5,928
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	3	3
51	Tier 2 capital before regulatory adjustments	1,003	1,003
Tier 2 capital: regulatory adjustments (\$m)			
57	Total regulatory adjustments to Tier 2 capital	—	—
58	Tier 2 capital (T2)	1,003	1,003
59	Total capital (TC = T1 + T2)	6,892	6,931
59a	Total capital with transitional arrangements for ECL provisioning not applied	6,892	6,931
60	Total risk-weighted assets (RWVA)	43,222	41,512
61	Common Equity Tier 1 (as percentage of risk-weighted assets)	11.1	11.6
61a	Common Equity Tier 1 with transitional arrangements for ECL provisioning not applied	11.1	11.6
62	Tier 1 (as percentage of risk-weighted assets)	13.6	14.3
62a	Tier 1 with transitional arrangements for ECL provisioning not applied	13.6	14.3
63	Total capital (as percentage of risk-weighted assets)	15.9	16.7
63a	Total capital with transitional arrangements for ECL provisioning not applied	15.9	16.7
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	—	—
81	Amounts excluded from CET1 due to cap (excess over cap after redemptions and maturities)	—	—
82	Current cap on AT1 instruments subject to phase out arrangements	—	—
83	Amounts excluded from AT1 due to cap (excess over cap after redemptions and maturities)	—	—
84	Current cap on T2 instruments subject to phase out arrangements	—	—
85	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, 2022

Table 2 : Overview of Risk Weighted Assets (OV1)

		At		
		30 Jun 2022	31 Mar 2022	30 Jun 2022
		RWA ¹ \$m	RWA \$m	Capital requirements ² \$m
1	Credit risk (excluding counterparty credit risk)	35,673	34,011	2,853
2	– of which Standardized approach (SA) ³	2,356	1,996	188
3	– of which internal rating based (IRB) approach	33,317	32,015	2,665
4	Counterparty credit risk	862	882	69
4a	– of which credit valuation adjustment (CVA) ⁴	266	239	21
5	– of which Standardized approach for counterparty credit risk (SA-CCR)	596	643	48
6	– of which internal model method (IMM)	–	–	–
7	Equity positions in banking book ⁵	1	1	–
8	Equity investments in funds – look-through approach	25	26	2
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	– of which IRB ratings based approach (RBA)	–	–	–
14	– of which IRB supervisory formula approach (SFA)	–	–	–
15	– of which SA/ simplified supervisory formula approach (SSFA)	–	–	–
16	Market risk	703	560	56
17	– of which Standardized approach (SA)	140	97	11
18	– of which internal model method (IMM)	563	463	45
19	Operational risk	3,811	3,775	305
20	– of which Basic indicator approach	–	–	–
21	– of which Standardized approach	3,811	3,775	305
22	– of which Advanced measurement approach	–	–	–
23	Amounts below the thresholds for deduction (subject to 250% risk weight)	–	–	–
24	Floor adjustment ⁶	2,147	2,257	172
25	Total RWA (1+4+7+8+9+10+11+12+16+19+23+24)	43,222	41,512	3,457

1. RWA includes 6% adjustment to IRB risk-weighted assets for scaling factor

2. '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

5. Amount includes banking book equity exposure which are not material and risk weighted @100% in accordance with OSFI CAR guidelines

6. 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		Allowances/ impairments	Net values (a+b-c)
		Defaulted exposures	Non - defaulted exposures		
		\$m	\$m		\$m
1	Debt securities	–	19,624	–	19,624
2	Loans	243	84,070	285	84,028
3	Off-balance sheet exposures	126	51,186	30	51,282
4	Total at 30 Jun 2022	369	154,880	315	154,934
1	Debt securities	–	15,016	–	15,016
2	Loans	285	87,417	362	87,340
3	Off-balance sheet exposures	92	52,403	43	52,452
4	Total at 31 Dec 2021	377	154,836	405	154,808

Table 4 : Credit risk mitigation techniques – overview (CR3)

	Exposures unsecured: carrying amount	Exposures secured: carrying amount ²	Exposures secured by collateral	Exposures secured by guarantees / credit derivatives
	\$m	\$m	\$m	\$m
1 Loans	13,743	70,571	68,326	2,243
2 Debt securities	8,907	10,716	10,579	138
3 Total at 30 Jun 2022	22,650	81,287	78,906	2,381
4 Of which defaulted	78	165	157	8
1 Loans	22,213	65,489	63,663	1,826
2 Debt securities	7,012	8,004	7,722	282
3 Total at 31 Dec 2021	29,225	73,493	71,385	2,018
4 Of which defaulted	25	260	253	7

1. Amount equals to the carrying value gross of allowances.

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

Table 5 : Standardized approach – credit conversion factor ('CCF') and credit risk mitigation ('CRM') effects (CR4)

	Exposures before CCF and CRM		Exposures post-CCF and CRM		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	613	532	613	—	168	27
7 Regulatory Retail Portfolios	408	2,560	407	—	305	75
10 Equity	—	—	—	—	—	—
13 Other assets ²	3,713	—	3,713	—	1,883	51
14 Total at 30 Jun 2022	4,734	3,092	4,733	—	2,356	50
1 Sovereigns and their central banks	—	—	—	—	—	—
6 Corporates	587	492	587	—	211	36
7 Regulatory Retail Portfolios	385	2,468	383	—	287	75
10 Equity	—	—	—	—	—	—
13 Other assets ²	2,203	—	2,203	—	1,339	61
14 Total at 31 Dec 2021	3,175	2,960	3,173	—	1,837	58

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

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 risk-weighted at 100%.

Table 6: 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	269	220	—	—	124	—	—	613
7 Regulatory Retail Portfolios	—	—	—	406	1	—	—	407
10 Equity	—	—	—	—	—	—	—	—
13 Other assets	1,803	184	—	—	1,646	—	80	3,713
14 Total at 30 Jun 2022	2,072	404	—	406	1,771	—	80	4,733
1 Sovereigns and their central banks	—	—	—	—	—	—	—	—
6 Corporates	176	251	—	—	160	—	—	587
7 Regulatory Retail Portfolios	—	—	—	382	1	—	—	383
10 Equity	—	—	—	—	—	—	—	—
13 Other assets	546	591	—	—	963	—	103	2,203
14 Total at 31 Dec 2021	722	842	—	382	1,124	—	103	3,173

Table 7: IRB – Credit risk exposures by portfolio and PD range (CR6)

PD scale	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
	\$m	\$m	%	\$m	%		%	years	\$m	%	\$m	\$m
Sovereign												
0.00 to <0.15	24,074	1,406	39	24,626	0.01	91	7.5	1.94	230	0.9	0.2	0.2
0.15 to <0.25	—	3	41	1	0.22	1	52.0	1.00	1	39.1	—	—
0.25 to <0.50	—	1	41	—	0.37	2	10.0	1.22	—	10.9	—	—
0.50 to <0.75	—	—	—	—	—	—	—	—	—	—	—	—
0.75 to <2.50	4	8	41	7	0.87	2	12.2	1.00	1	18.8	—	—
2.50 to <10.00	—	—	—	—	—	—	—	—	—	—	—	—
10.00 to <100.00	—	—	—	—	—	—	—	—	—	—	—	—
100.00 (Default)	—	—	—	—	—	—	—	—	—	—	—	—
Sub-total	24,078	1,418	39	24,634	0.01	96	7.5	1.94	232	0.9	0.2	0.2
Banks												
0.00 to <0.15	2,114	1,097	61	2,779	0.05	157	19.3	1.77	245	9.0	0.4	0.1
0.15 to <0.25	2	1	20	2	0.22	4	35.0	0.16	—	22.5	—	—
0.25 to <0.50	—	—	41	—	0.37	2	25.2	0.49	—	21.0	—	—
0.50 to <0.75	—	62	20	12	0.63	3	28.2	0.27	5	39.7	—	—
0.75 to <2.50	—	48	20	10	1.65	1	27.2	0.50	5	53.2	—	0.1
2.50 to <10.00	—	—	—	—	—	—	—	—	—	—	—	—
10.00 to <100.00	—	—	—	—	—	—	—	—	—	—	—	—
100.00 (Default)	—	—	—	—	—	—	—	—	—	—	—	—
Sub-total	2,116	1,208	57	2,803	0.06	167	19.4	1.75	255	9.1	0.4	0.2
Corporate – SME												
0.00 to <0.15	65	115	41	112	0.13	71	32.7	2.01	23	20.7	—	—
0.15 to <0.25	317	426	41	493	0.22	446	32.1	1.80	123	24.9	0.3	0.1
0.25 to <0.50	347	353	41	490	0.37	381	32.2	1.85	169	34.6	0.6	0.2
0.50 to <0.75	266	273	42	380	0.63	302	31.3	1.70	157	41.2	0.7	0.2
0.75 to <2.50	822	555	41	1,047	1.28	611	31.7	1.85	579	55.3	4.2	2.3
2.50 to <10.00	226	129	44	283	4.91	48	30.7	1.47	221	78.2	4.2	2.5
10.00 to <100.00	86	27	40	97	16.34	29	29.5	1.56	108	11.3	4.7	4.6
100.00 (Default)	45	14	60	54	100.00	187	45.2	1.12	55	102.1	28.5	28.5
Sub-total	2,174	1,892	41	2,956	3.45	2,075	31.9	1.77	1,435	48.5	43.3	38.4
Corporate – Other												
0.00 to <0.15	4,671	10,406	44	9,255	0.10	666	41.4	1.74	1,930	20.9	3.1	1.1
0.15 to <0.25	5,696	7,181	43	8,769	0.20	874	35.9	1.88	3,087	35.2	6.9	4.2
0.25 to <0.50	8,075	5,993	42	10,606	0.40	894	34.7	1.71	4,571	43.1	13.6	8.8
0.50 to <0.75	6,572	5,284	41	8,740	0.60	832	34.2	1.72	4,843	55.4	18.8	13.8
0.75 to <2.50	10,546	7,398	43	13,703	1.20	2,187	33.7	1.80	9,636	70.3	54.8	54.9
2.50 to <10.00	1,703	1,097	46	2,205	5.30	75	32.3	1.61	2,377	107.8	37.5	37.4
10.00 to <100.00	227	146	46	294	18.60	47	35.4	1.20	501	170.2	20.2	18.5
100.00 (Default)	156	99	58	213	100.00	384	36.9	1.45	322	150.8	63.3	63.3
Sub-total	37,646	37,604	43	53,785	1.30	5,959	35.6	1.76	27,267	50.7	218.2	202.0
Wholesale AIRB - Total at 30 Jun 2022	66,014	42,122	43	84,178	0.90	8,297	26.7	1.80	29,189	34.7	262.1	240.8

Table 8: 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	20,252	1	—	20,252	0.06	44,203	17.9	—	638	3.2	2.3	8.8
0.15 to <0.25	6,610	—	—	6,610	0.19	11,577	20.0	—	530	8.0	2.4	5.2
0.25 to <0.50	3,880	—	—	3,880	0.32	6,376	17.8	—	412	10.6	2.2	3.4
0.50 to <0.75	1,254	—	—	1,254	0.55	2,173	19.7	—	217	17.3	1.3	2.3
0.75 to <2.50	1,502	—	—	1,502	1.56	2,661	18.6	—	485	32.3	4.4	5.7
2.50 to <10.00	487	—	—	487	4.56	1,042	17.4	—	277	56.9	3.9	1.4
10.00 to <100.00	134	—	—	134	25.67	252	16.8	—	139	103.3	5.8	5.5
100.00 (Default)	28	—	—	28	100.00	62	15.8	—	57	207.8	—	2.1
Sub-total	34,147	1	—	34,147	0.45	68,346	18.4	—	2,755	8.1	22.3	34.4
HELOC												
0.00 to <0.15	3	—	—	3	0.07	12	19.0	—	—	3.6	—	—
0.15 to <0.25	3	—	—	3	0.23	8	22.0	—	—	10.3	—	—
0.25 to <0.50	751	3,115	26	1,562	0.38	18,646	18.4	—	196	12.5	1.1	2.6
0.50 to <0.75	118	309	28	204	0.53	1,352	15.7	—	28	13.5	0.2	0.4
0.75 to <2.50	426	756	33	675	1.00	5,546	19.0	—	167	24.8	1.3	2.4
2.50 to <10.00	113	84	31	139	4.01	927	18.7	—	79	56.5	1.0	1.3
10.00 to <100.00	21	6	37	23	27.01	124	18.1	—	26	111.8	1.1	0.4
100.00 (Default)	9	9	—	9	100.00	70	16.8	—	19	222.7	—	0.7
Sub-total	1,444	4,279	27	2,618	1.30	26,685	18.3	—	515	19.7	4.7	7.8
Retail Qualifying revolving exposures												
0.00 to <0.15	—	—	—	—	—	—	—	—	—	—	—	—
0.15 to <0.25	—	—	—	—	—	—	—	—	—	—	—	—
0.25 to <0.50	41	712	19	175	0.31	40,673	54.8	—	16	9.0	0.3	0.8
0.50 to <0.75	—	—	—	—	—	—	—	—	—	—	—	—
0.75 to <2.50	54	153	26	94	1.17	14,689	70.3	—	30	32.1	0.8	1.9
2.50 to <10.00	45	39	40	61	4.17	5,595	76.2	—	52	85.9	1.9	2.8
10.00 to <100.00	5	9	27	7	24.87	856	71.7	—	15	205.1	1.3	0.6
100.00 (Default)	1	3	—	1	100.00	269	70.9	—	10	914.8	—	0.5
Sub-total	146	916	21	338	2.08	62,082	63.4	—	123	36.4	4.2	6.6
Retail SME												
0.00 to <0.15	—	—	—	—	—	—	—	—	—	—	—	—
0.15 to <0.25	—	—	—	—	—	—	—	—	—	—	—	—
0.25 to <0.50	—	—	—	—	—	—	—	—	—	—	—	—
0.50 to <0.75	123	113	100	236	0.63	1,661	53.5	—	107	45.2	0.8	1.2
0.75 to <2.50	85	24	99	109	2.20	693	54.4	—	83	75.8	1.3	1.5
2.50 to <10.00	13	12	98	25	7.82	476	40.8	—	17	68.4	0.8	0.3
10.00 to <100.00	5	1	99	6	20.57	351	52.5	—	7	120.6	0.6	0.1
100.00 (Default)	1	—	—	1	100.00	240	77.5	—	13	1,016.0	0.1	0.9
Sub-total	228	150	99	378	2.21	3,421	53.0	—	227	60.1	3.6	4.0
Retail Other												
0.00 to <0.15	55	—	—	51	0.12	410	61.0	—	10	18.3	—	0.6
0.15 to <0.25	—	—	—	—	—	—	—	—	—	—	—	—
0.25 to <0.50	174	457	25	288	0.26	10,754	35.1	—	53	18.4	0.4	0.8
0.50 to <0.75	376	118	34	416	0.53	6,912	52.6	—	170	40.9	1.1	1.8
0.75 to <2.50	41	56	27	56	1.49	1,077	32.4	—	23	40.5	0.3	0.4
2.50 to <10.00	29	7	69	34	3.63	694	32.0	—	16	48.4	0.4	0.6
10.00 to <100.00	13	4	74	16	17.82	5,056	36.9	—	13	77.3	1.0	0.6
100.00 (Default)	1	—	—	1	100.00	1,787	44.5	—	4	550.0	0.4	0.5
Sub-total	689	643	28	862	1.00	26,690	44.9	—	289	33.3	3.6	5.3
Total Retail at 30 Jun 2022	36,654	5,989	28	38,343	0.55	187,224	19.7	—	3,909	10.2	38.4	58.1

Table 9: 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	RWAs \$m	RWA density %	Expected loss \$m	Provisions \$m
Sovereign												
0.00 to <0.15	27,156	1,416	39	27,715	0.01	95	8.3	1.39	206	0.7	0.3	0.9
0.15 to <0.25	—	3	41	1	0.22	1	52.0	1	1	39.1	—	—
0.25 to <0.50	—	1	41	—	0.37	1	10.0	1.26	—	11.0	—	—
0.50 to <0.75	—	—	—	—	—	—	—	—	—	—	—	—
0.75 to <2.50	—	5	41	2	0.87	2	16.9	1	1	24.4	—	—
2.50 to <10.00	—	—	—	—	—	—	—	—	—	—	—	—
10.00 to <100.00	—	—	—	—	—	—	—	—	—	—	—	—
100.00 (Default)	—	—	—	—	—	—	—	—	—	—	—	—
Sub-total	27,156	1,425	41	27,718	0.01	99	8.3	1.39	208	0.8	0.2	—
Banks												
0.00 to <0.15	3,033	1,060	62	3,692	0.06	159	20.7	1.35	327	9.0	0.6	0.1
0.15 to <0.25	4	3	32	5	0.22	12	33.1	0.27	1	0.2	—	—
0.25 to <0.50	4	—	41	4	0.37	2	34.9	0.1	2	0.4	—	—
0.50 to <0.75	—	19	20	4	0.63	3	27.4	0.25	2	0.5	—	—
0.75 to <2.50	—	53	20	11	1.66	2	27.2	1.02	8	72.1	—	0.1
2.50 to <10.00	2	10	20	2	3.05	2	51.7	0.4	3	150.0	—	—
10.00 to <100.00	—	—	—	—	—	—	—	—	—	—	—	—
100.00 (Default)	—	—	—	—	—	—	—	—	—	—	—	—
Sub-total	3,043	1,145	58	3,718	0.07	180	20.8	1.34	343	9.0	0.6	0.2
Corporate – SME												
0.00 to <0.15	424	553	43	662	0.10	144	30.2	1.97	103	15.5	0.2	0.2
0.15 to <0.25	1,532	1,310	42	2,077	0.22	737	33.1	1.71	538	25.9	1.5	1.1
0.25 to <0.50	1,671	1,385	41	2,239	0.37	738	33.1	1.95	822	36.7	2.7	1.7
0.50 to <0.75	1,625	1,383	41	2,192	0.63	632	32.5	1.63	957	43.7	4.5	4.7
0.75 to <2.50	4,811	2,569	42	5,878	1.27	1,683	31.1	1.7	3,223	54.8	23.2	25.4
2.50 to <10.00	831	483	42	1,034	4.97	468	29.6	1.61	814	78.8	15.2	13.4
10.00 to <100.00	265	120	41	314	18.60	101	30.2	1.36	390	124.1	18.6	22.1
100.00 (Default)	158	28	50	172	100.00	50	51.9	1.11	206	119.8	86.2	86.2
Sub-total	11,317	7,831	42	14,568	2.64	4,553	32.0	1.72	7,053	48.4	152.1	154.8
Corporate – Other												
0.00 to <0.15	3,310	9,528	45	7,552	0.10	481	44.7	1.63	1,594	21.1	2.7	1.7
0.15 to <0.25	3,282	6,435	43	6,040	0.20	496	37.2	1.82	2,137	35.4	4.9	3.3
0.25 to <0.50	4,311	4,381	42	6,142	0.40	450	35.5	1.76	2,737	44.6	8.1	4.7
0.50 to <0.75	5,853	4,867	42	7,905	0.60	596	34.7	1.84	4,584	58.0	17.3	14.0
0.75 to <2.50	6,329	6,811	43	9,234	1.20	1,171	35.5	1.73	6,801	73.7	39.4	35.5
2.50 to <10.00	1,090	928	46	1,514	5.20	213	33.5	1.40	1,646	108.8	26.0	25.6
10.00 to <100.00	214	172	45	292	42.90	50	41.3	1.47	477	163.5	55.7	32.8
100.00 (Default)	72	51	61	103	100.00	19	47.7	1.49	104	101.3	45.8	45.8
Sub-total	24,461	33,173	43	38,781	1.30	3,476	37.4	1.74	20,080	51.8	199.9	163.4
Wholesale AIRB - Total at 31 Dec 2021	65,975	43,573	43	84,786	1.10	8,308	26.2	1.60	27,686	32.7	353.1	318.9

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	RWAs \$m	RWA density %	Expected loss \$m	Provisions \$m
Retail Residential Mortgages												
0.00 to <0.15	19,546	1	—	19,546	0.06	43,680	17.6	—	606	3.1	2.1	9.1
0.15 to <0.25	6,361	—	—	6,361	0.19	11,684	19.4	—	496	7.8	2.3	5.0
0.25 to <0.50	3,960	—	—	3,960	0.32	6,789	17.4	—	415	10.5	2.2	3.1
0.50 to <0.75	1,169	—	—	1,169	0.55	2,067	19.5	—	201	17.2	1.3	2.4
0.75 to <2.50	1,383	—	—	1,383	1.57	2,488	18.1	—	431	31.2	3.9	2.2
2.50 to <10.00	492	—	—	492	4.64	1,037	17.0	—	276	56.1	3.9	6.2
10.00 to <100.00	113	—	—	113	25.91	253	16.8	—	116	102.7	4.9	(5.0)
100.00 (Default)	38	—	—	38	100.00	84	16.6	—	83	218.4	—	15.8
Sub-total	33,062	1	—	33,062	0.47	68,082	18.0	—	2,624	7.9	20.6	38.8
HELOC												
0.00 to <0.15	3	—	—	3	0.06	17	13.8	—	—	—	—	—
0.15 to <0.25	1	—	—	1	0.22	7	15.2	—	—	—	—	—
0.25 to <0.50	692	2,984	26	1,454	0.38	18,293	18.1	—	180	12.4	1.0	1.3
0.50 to <0.75	115	313	28	203	0.53	1,335	15.9	—	28	13.8	0.2	0.2
0.75 to <2.50	450	674	35	687	1.04	5,586	18.7	—	170	24.7	1.3	1.4
2.50 to <10.00	126	87	29	152	3.96	1,018	18.5	—	84	55.3	1.1	2.5
10.00 to <100.00	24	2	33	25	26.54	122	19.1	—	30	120.0	1.3	1.1
100.00 (Default)	10	8	—	10	100.00	82	17.0	—	22	220.0	—	1.8
Sub-total	1,421	4,068	27	2,535	1.42	26,460	18.1	—	514	20.3	4.9	8.3
Retail Qualifying revolving												
0.00 to <0.15	—	—	—	—	—	—	—	—	—	—	—	—
0.15 to <0.25	—	—	—	—	—	—	—	—	—	—	—	—
0.25 to <0.50	44	689	19	174	0.31	40,793	53.4	—	15	8.6	0.3	0.4
0.50 to <0.75	—	—	—	—	—	—	—	—	—	—	—	—
0.75 to <2.50	60	171	26	105	1.17	15,296	67.6	—	33	30.5	0.8	0.9
2.50 to <10.00	44	50	36	62	4.17	5,979	71.9	—	50	80.6	1.8	3.8
10.00 to <100.00	5	8	27	7	24.87	837	68.2	—	13	185.7	1.1	1.2
100.00 (Default)	1	3	—	1	100.00	271	69.5	—	11	1,100.0	—	0.8
Sub-total	154	921	21	—	2.07	63,176	61.3	—	122	34.7	—	—
Retail SME												
0.00 to <0.15	—	—	—	—	—	—	—	—	—	—	—	—
0.15 to <0.25	—	—	—	—	—	—	—	—	—	—	—	—
0.25 to <0.50	—	—	—	—	—	—	—	—	—	—	—	—
0.50 to <0.75	128	134	100	261	0.64	1,707	52.9	—	117	44.8	0.8	3.8
0.75 to <2.50	69	25	99	94	2.21	639	53.6	—	70	74.5	1.1	2.4
2.50 to <10.00	10	11	98	21	7.58	737	41.0	—	14	66.7	0.6	0.2
10.00 to <100.00	6	1	99	7	21.72	360	56.5	—	9	128.6	0.8	0.1
100.00 (Default)	2	—	—	2	100.00	132	63.8	—	21	1,050.0	—	1.9
Sub-total	215	171	99	385	2.43	3,575	52.5	—	231	60.0	3.3	8.4
Retail Other												
0.00 to <0.15	51	—	—	51	0.12	369	61.0	—	9	17.6	—	0.1
0.15 to <0.25	—	—	—	—	—	—	—	—	—	—	—	—
0.25 to <0.50	141	444	24	249	0.26	10,444	26.4	—	34	13.7	0.2	0.1
0.50 to <0.75	443	122	34	483	0.53	7,047	50.1	—	189	38.8	1.2	1.8
0.75 to <2.50	36	53	31	53	1.49	1,181	24.2	—	17	30.2	0.2	0.2
2.50 to <10.00	31	9	58	37	3.63	788	22.1	—	12	32.4	0.3	0.2
10.00 to <100.00	14	6	87	19	20.13	6,857	33.1	—	13	68.4	1.2	2.4
100.00 (Default)	1	—	—	1	100.00	1,664	28.5	—	3	300.0	0.2	0.4
Sub-total	717	634	28	893	1.13	28,350	41.0	—	277	31.0	3.3	5.2
Total Retail at 31 Dec 2021	35,569	5,795	29	37,224	0.59	189,643	19.3	—	3,768	10.1	36.1	67.8

Table 10 : RWA flow statements of credit risk exposures under the IRB approach (CR8)

		RWA ² \$m	Capital requirements ³ \$m
1	RWA at the beginning of the period - 1 Apr 2022	32,015	2,561
2	Asset size ¹	1,339	107
3	Asset quality	(37)	(3)
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 - 30 Jun 2022	33,317	2,665

1. Foreign exchange movements are embedded in the asset size

2. RWA includes 6% adjustment to IRB risk-weighted assets for scaling factor

3. 'Capital requirement' represents the minimum total capital charge set at 8% of RWAs under the OSFI CAR guidelines

Table 11: Specialized lending on slotting approach and Equities under simple risk-weight method (CR10)

		Specialized Lending - Other than HVCRE ²									
Regulatory categories ¹	Regulatory maturity	On-balance sheet amount \$m	Off-balance sheet amount \$m	Risk weight %	Exposure amount					RWA ³ \$m	Expected loss \$m
					PF ²	OF	CF	IPRE	Total		
					\$m	\$m	\$m	\$m	\$m		
Strong	Less than 2.5 years	—	—	50	—	—	—	—	—	—	—
	Equal to or more than 2.5 years	243	109	70	288	—	—	—	288	201	1
Good	Less than 2.5 years	—	—	70	—	—	—	—	—	—	—
	Equal to or more than 2.5 years	1	—	90	—	—	—	1	1	1	—
Satisfactory		4	—	115	—	—	—	4	4	5	—
Weak		—	—	250	—	—	—	—	—	—	—
Default		—	—	0	—	—	—	—	—	—	—
Total at 30 Jun 2022		248	109		288	—	—	5	293	207	1
Strong	Less than 2.5 years	—	—	50	—	—	—	—	—	—	—
	Equal to or more than 2.5 years	77	98	70	117	—	—	—	117	82	—
Good	Less than 2.5 years	—	—	70	—	—	—	—	—	—	—
	Equal to or more than 2.5 years	1	—	90	—	—	—	1	1	1	—
Satisfactory		124	67	115	148	—	—	4	152	175	5
Weak		—	—	250	—	—	—	—	—	—	—
Default		—	—	0	—	—	—	—	—	—	5
Total at 31 Dec 2021		202	165		265	—	—	5	270	258	5

1. Regulatory categories are defined under paragraph 88 of OSFI CAR guidelines

2. HVCRE: High-volatility commercial real estate, PF: Project finance, OF: Object finance, CF: Commodities finance & IPRE: Income producing real estate

3. RWAs are pre 6% adjustment to IRB risk-weighted assets for scaling factor

Table 12: 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)	304	1,272	—	1.4	2,206	555
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)	—	—	—	—	257	26
5	VaR for SFTs	—	—	—	—	—	—
6	Total at 30 Jun 2022	304	1,272	—	1.4	2,463	581
1	SA-CCR (for derivatives)	419	999	—	1.4	1,972	686
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)	—	—	—	—	218	44
5	VaR for SFTs	—	—	—	—	—	—
6	Total at 31 Dec 2021	419	999	—	1.4	2,190	730

Table 13: Credit valuation adjustment (CVA) capital charge (CCR2)

		At 30 Jun 2022		At 31 Dec 2021	
		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	1,544	266	1,381	279
5	Total subject to the CVA capital charge	1,544	266	1,381	279

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 14: 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	385	0.02	61	10.0	0.38	3	0.8
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	385	0.02	61	10.0	0.38	3	0.8
Banks							
0.00 to <0.15	890	0.04	35	27.63	0.69	55	6.1
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	890	0.04	35	27.6	0.69	55	6.1
Corporate – SME							
0.00 to <0.15	3	0.10	7	52.0	1.62	1	33.6
0.15 to <0.25	8	0.20	33	52.0	1.19	3	41.3
0.25 to <0.50	5	0.40	22	52.0	1.04	3	54.5
0.50 to <0.75	1	0.60	17	52.0	1.38	1	77.8

0.75 to <2.50	7	1.10	46	52.0	2.45	9	114.8
2.50 to <10.00	2	5.10	10	52.0	1.73	3	170.6
10.00 to <100.00	1	13.00	5	52.0	1.00	1	235.6
100.00 (Default)	—	100.00	2	52.0	1.00	1	689.0
Sub-total	27	1.70	142	52.0	1.58	22	80.7
Corporate – Other							
0.00 to <0.15	641	0.06	227	52.0	1.07	114	17.8
0.15 to <0.25	141	0.22	89	52.0	1.16	59	41.8
0.25 to <0.50	149	0.37	97	52.0	1.24	86	57.5
0.50 to <0.75	53	0.63	45	52.0	1.13	39	74.1
0.75 to <2.50	172	1.60	234	52.0	1.24	195	113.4
2.50 to <10.00	4	4.29	10	52.0	1.04	6	152.5
10.00 to <100.00	1	12.58	3	52.0	1.06	2	236.4
100.00 (Default)	—	—	—	—	—	—	—
Sub-total	1,161	0.40	705	52.0	1.13	501	43.1
Grand-total at 30 Jun 2022	2,463	0.22	943	36.6	0.86	581	23.6
Sovereign							
0.00 to <0.15	245	0.02	58	10.0	0.38	2	1.0
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	245	0.02	58	10.0	0.38	2	0.8
Banks							
0.00 to <0.15	605	0.04	40	28.2	0.56	37	6.0
0.15 to <0.25	—	0.22	3	36.7	1.00	—	20.0
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	605	0.04	43	28.2	0.56	37	6.0
Corporate – SME							
0.00 to <0.15	4	0.13	13	52.0	2.02	2	38.0
0.15 to <0.25	6	0.22	25	52.0	1.39	3	44.0
0.25 to <0.50	6	0.37	34	52.0	3.30	5	86.0
0.50 to <0.75	5	0.63	21	52.0	2.25	5	91.0
0.75 to <2.50	15	1.44	52	52.0	2.06	17	118.0
2.50 to <10.00	5	4.69	17	52.0	2.51	9	179.0
10.00 to <100.00	1	13.25	5	52.0	1.00	1	239.0
100.00 (Default)	—	100	1	52.0	1.00	1	689.0
Sub-total	42	1.73	168.0	52.0	2.20	43	102.0
Corporate – Others							
0.00 to <0.15	662	0.07	230	52.00	1.18	130	19.6
0.15 to <0.25	183	0.22	114	52.00	1.09	79	43.0
0.25 to <0.50	147	0.37	71	52.00	2.07	100	68.0
0.50 to <0.75	86	0.63	55	52.00	1.61	71	82.0
0.75 to <2.50	187	1.62	227	52.00	1.48	216	116.0
2.50 to <10.00	32	4.22	10	52.00	0.96	48	151.0
10.00 to <100.00	1	16.85	3	52.00	1.48	3	265.0
100.00 (Default)	—	100.00	1	52.00	1.00	1	689.0
Sub-total	1,298	0.51	711	52.00	1.34	648	50.0
Grand-total at 31 Dec 2021	2,190	0.36	980	42.10	1.03	730	33.3

Table 15: Composition of collateral for CCR exposure (CCR5)

		Collateral used in derivative transactions				Collateral used in SFTs	
		Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received	Fair value of posted collateral
		Segregated	Unsegregated	Segregated	Unsegregated		
		\$m	\$m	\$m	\$m	\$m	\$m
1	Cash – domestic currency	–	21	–	608	–	–
2	Cash – other currencies	–	281	–	162	–	–
3	Domestic sovereign debt	–	7	21	26	–	150
4	Other sovereign debt	–	–	–	–	–	–
5	Government agency debt	–	–	–	–	–	–
6	Corporate bonds	–	–	–	–	–	–
7	Equity securities	–	–	–	–	–	–
8	Other collateral	–	–	–	–	–	–
9	Total at 30 Jun 2022	–	309	21	796	–	150
1	Cash – domestic currency	–	25	–	299	–	–
2	Cash – other currencies	–	42	–	114	–	–
3	Domestic sovereign debt	–	75	7	26	–	62
4	Other sovereign debt	–	–	–	–	–	–
5	Government agency debt	–	–	–	–	–	–
6	Corporate bonds	–	–	–	–	–	–
7	Equity securities	–	–	–	–	–	–
8	Other collateral	–	–	–	–	–	–
9	Total at 31 Dec 2021	–	142	7	439	–	62

Table 16: Exposures to central counterparties (CCPs) - CCR8

		At 30 Jun 2022		At 31 Dec 2021	
		EAD post-CRM	RWA	EAD post-CRM	RWA
		\$m	\$m	\$m	\$m
1	Exposures to QCCPs (total)	521	15	297	10
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	354	7	224	5
3	– OTC derivatives	218	4	138	3
4	– exchange-traded derivatives	–	–	8	–
5	– securities financing transactions	136	3	78	2
6	– netting sets where cross-products netting has been approved	–	–	–	–
7	Segregated initial margin	150	3	62	1
8	Non-segregated initial margin	–	–	–	–
9	Pre-funded default fund contributions	17	5	11	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 sets 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 17: Market risk under standardised approach (MR1)

	At		
	30 Jun 2022	31 Dec 2021	30 Jun 2022
	RWA	RWA	Capital requirements
	\$m	\$m	\$m
Outright products			
1 Interest rate risk (general and specific)	140	51	11
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	140	51	11

Table 18 : 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 Apr 2022	144	199	120	463
2 Movement in risk levels ¹	14	(21)	107	100
3 Model updates/changes	—	—	—	—
4 Methodology and policy ²	—	—	—	—
8 RWA at the end of the period - 30 Jun 2022	158	178	227	563

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

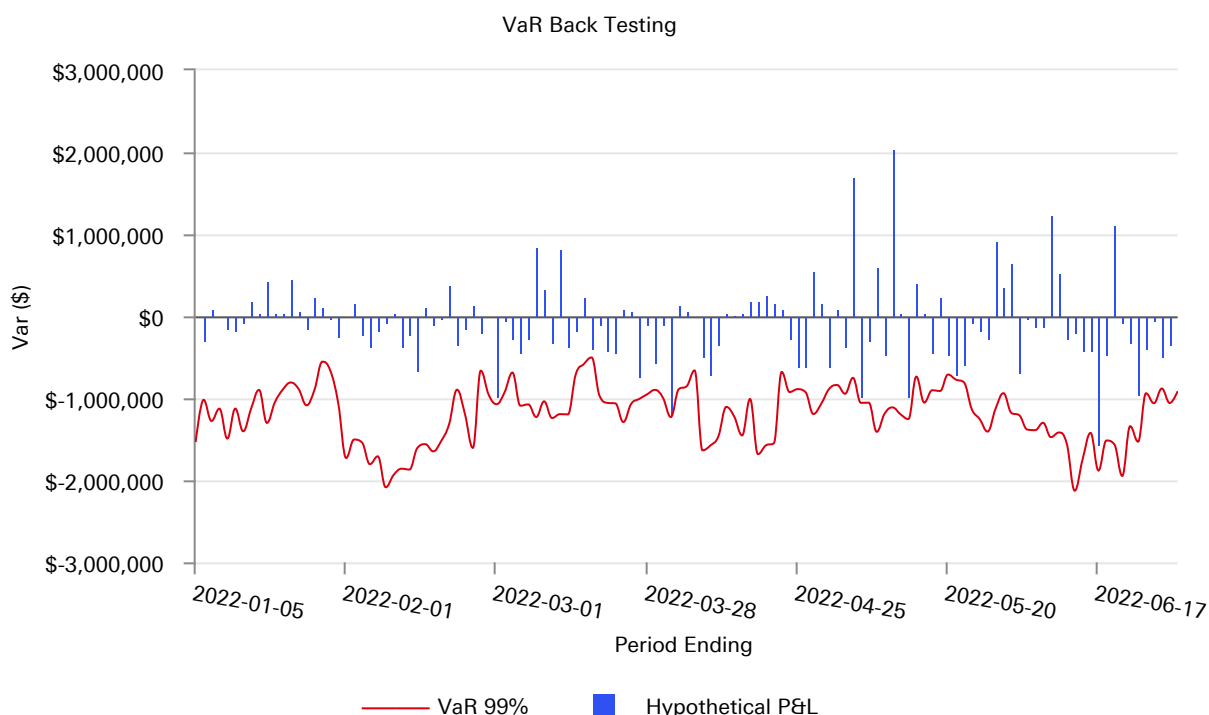
2. Other included Risks not in VaR (RNIV), OSFI updated the RNIV measure with a similar methodology as applied for Stressed VaR, including a multiplier of 3

Table 19: IMA values for trading portfolios¹ (MR3)

	At	
	30 Jun 2022	31 Dec 2021
	\$'000	\$'000
VaR		
1 Maximum value	6,836	11,287
2 Average value	4,217	5,449
3 Minimum value	2,325	2,695
4 Period end	2,887	4,678
Stressed VaR		
5 Maximum value	8,277	8,648
6 Average value	5,026	6,159
7 Minimum value	2,947	3,394
8 Period end	2,947	7,595
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 second quarter of the year.

Table 20: Comparison of VaR estimates with gains/losses (MR4)



Leverage

Table 21 : Summary comparison of accounting assets vs. leverage ratio exposure measure (LR1)

		At	
		30 Jun 2022	31 Mar 2022
		\$m	\$m
1	Total consolidated assets as per published financial statements	125,037	120,821
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	(3,182)	(2,131)
6	Adjustment for securities financing transactions (i.e. repurchase agreements and similar secured lending)	67	80
7	Adjustment for off-balance sheet items (i.e. conversion to credit equivalent amounts of off-balance sheet exposures)	14,738	14,677
8	Other adjustments ¹	(5,004)	(9,215)
9	Leverage ratio exposure measure	131,656	124,232

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. Starting Q12022, banks will be required to include the aforementioned HQLA securities in their leverage ratio exposure measures, whilst central bank reserves are continued to be excluded until otherwise notified. Asset amounts deducted in determining Basel III Tier 1 capital are also included as a deduction.

Table 22 : Leverage Ratio Common Disclosure Template (LR2)

		At	
		30 Jun 2022	31 Mar 2022
		\$m	\$m
On-balance sheet exposures			
1	On-balance sheet items (excluding derivatives, SFTs and grandfathered securitization exposures but including collateral) ¹	108,086	100,479
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)	(770)	(586)
4	(Asset amounts deducted in determining Basel III Tier 1 capital)	118	(14)
5	Total on-balance sheet exposures (excluding derivatives and SFTs) (Sum of lines 1 to 4)	107,434	99,879
Derivative exposures			
6	Replacement cost associated with all derivative transactions (i.e. net of eligible cash variation margin)	582	516
7	Add-on amounts for PFE associated with all derivative transactions	1,842	1,584
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)	2,424	2,118
Securities financing transaction exposures			
12	Gross SFT assets recognized for accounting purposes (with no recognition of netting), after adjusting for sale accounting transactions	10,910	10,153
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(3,917)	(2,657)
14	Counterparty credit risk (CCR) exposure for SFTs	67	80
15	Agent transaction exposures	—	—
16	Total securities financing transaction exposures (sum of lines 12 to 15)	7,060	7,576
Other off-balance sheet exposures			
17	Off-balance sheet exposure at gross notional amount	51,324	50,521
18	(Adjustments for conversion to credit equivalent amounts)	(36,586)	(35,844)
19	Off-balance sheet items (sum of lines 17 and 18)	14,738	14,677
Capital and Total Exposures			
20	Tier 1 capital	5,889	5,928
21	Total Exposures (sum of lines 5, 11, 16 and 19)	131,656	124,232
Leverage Ratios (%)			
22	Leverage ratio	4.5	4.8
22a	Leverage ratio with transitional arrangements for ECL provisioning not applied	4.5	4.8

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. Starting Q12022, banks will be required to include the aforementioned HQLA securities in their leverage ratio exposure measures, whilst central bank reserves are continued to be excluded until otherwise notified.

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