

Supplementary Financial Information

Q3 2022

For the period ended July 31, 2022
(UNAUDITED)

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Notes to Users

The Consolidated Financial Statements are prepared in compliance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB) and International Accounting Standard (IAS) 34, Interim Financial Reporting unless otherwise noted. Unless otherwise stated, monetary amounts are stated in Canadian dollars. This document is not audited and should be read in conjunction with our 2021 Annual Report. Certain comparative amounts have been amended to conform to the current period's presentation.

Changes in accounting policies

Effective November 1, 2019, we adopted IFRS 16 Leases (IFRS 16). As permitted by the transition provisions of IFRS 16, we elected not to restate comparative period results; accordingly, we recognized right-of-use assets, lease liabilities and an adjustment to opening retained earnings on November 1, 2019. For further details on the impacts of the adoption of IFRS 16, including a description of our accounting policies, refer to Note 2 of our 2020 Annual Report.

Capital Disclosure Requirements related to Basel III Pillar 3

Capital main features disclosure provides qualitative disclosure and sets out summary information and the full terms and conditions for each of our capital instruments and can be found on our Investor Relations website. Refer to our Basel III Pillar 3 report for all other Pillar 3 capital disclosures.

EDTF Disclosures

The Financial Stability Board's Enhanced Disclosure Task Force (EDTF) issued a report titled "*Enhancing the Risk Disclosures of Banks*" in October 2012. The following index lists the disclosure related to these recommendations contained in this document.

Type of Risk	Recommendation	Disclosure	Page
Capital adequacy and risk-weighted assets	11	Flow statement of the movements in regulatory capital	20
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For a full index of where to find all EDTF related disclosures, refer to our 2021 Annual Report.

FINANCIAL HIGHLIGHTS (Millions of Canadian dollars, except otherwise noted)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
SELECTED INCOME STATEMENT INFORMATION														
Net interest income		5,890	5,274	5,271	5,061	5,052	4,854	5,035	5,010	5,139	16,435	14,941	20,002	20,835
Non-interest income		6,242	5,946	7,795	7,315	7,704	6,764	7,908	6,082	7,781	19,983	22,376	29,691	26,346
Total revenue		12,132	11,220	13,066	12,376	12,756	11,618	12,943	11,092	12,920	36,418	37,317	49,693	47,181
Provision for credit losses (PCL) ¹		340	(342)	105	(227)	(540)	(96)	110	427	675	103	(526)	(753)	4,351
Insurance policyholder benefits, claims and acquisition expense (PBCAE)		850	(180)	997	1,032	1,304	149	1,406	461	1,785	1,667	2,859	3,891	3,683
Non-interest expense		6,386	6,434	6,580	6,583	6,420	6,379	6,542	6,058	6,380	19,400	19,341	25,924	24,758
Net income		3,577	4,253	4,095	3,892	4,296	4,015	3,847	3,246	3,201	11,925	12,158	16,050	11,437
Less: Non-controlling interests (NCI)		(2)	(3)	(2)	(5)	(4)	(1)	(2)	1	(4)	(7)	(7)	(12)	(5)
Dividends on preferred shares and distributions on other equity instruments		(58)	(68)	(54)	(68)	(55)	(76)	(58)	(74)	(65)	(180)	(189)	(257)	(268)
Net income available to common shareholders		3,517	4,182	4,039	3,819	4,237	3,938	3,787	3,173	3,132	11,738	11,962	15,781	11,164
Add: Dilutive impact of exchangeable shares		-	-	-	-	-	-	-	2	4	-	-	-	13
Net income available to common shareholders including dilutive impact of exchangeable shares		3,517	4,182	4,039	3,819	4,237	3,938	3,787	3,175	3,136	11,738	11,962	15,781	11,177
PROFITABILITY MEASURES														
Earnings per share (EPS) - basic		\$2.52	\$2.97	\$2.84	\$2.68	\$2.97	\$2.76	\$2.66	\$2.23	\$2.20	\$8.33	\$8.40	\$11.08	\$7.84
- diluted		\$2.51	\$2.96	\$2.84	\$2.68	\$2.97	\$2.76	\$2.66	\$2.23	\$2.20	\$8.31	\$8.39	\$11.06	\$7.82
Common shares outstanding (000s) ²														
- average (basic)		1,396,381	1,409,702	1,421,807	1,424,534	1,424,614	1,424,889	1,423,350	1,422,578	1,422,705	1,409,292	1,424,278	1,424,343	1,423,915
- average (diluted)		1,398,667	1,412,552	1,424,602	1,427,225	1,427,198	1,427,107	1,425,280	1,426,466	1,427,777	1,411,934	1,426,548	1,426,735	1,428,770
Return on common equity (ROE) ³		14.6%	18.4%	17.3%	16.9%	19.6%	19.4%	18.6%	16.0%	15.7%	16.7%	19.2%	18.6%	14.2%
Return on tangible common equity (ROTCE) ⁴		16.8%	21.3%	20.1%	19.7%	23.0%	22.9%	22.1%	19.3%	18.9%	19.3%	22.7%	21.9%	17.1%
Return on assets (ROA) ³		0.76%	0.95%	0.88%	0.90%	1.03%	0.99%	0.90%	0.79%	0.75%	0.86%	0.98%	0.96%	0.70%
Return on RWA ³		2.41%	2.98%	2.85%	2.79%	3.14%	2.96%	2.74%	2.36%	2.31%	2.74%	2.94%	2.90%	2.10%
Efficiency ratio ³		52.6%	57.3%	50.4%	53.2%	50.3%	54.9%	50.5%	54.6%	49.4%	53.3%	51.8%	52.2%	52.5%
Adjusted efficiency ratio ^{4,5}		53.1%	52.1%	48.8%	52.1%	52.3%	52.3%	51.9%	53.5%	53.5%	51.2%	52.2%	52.2%	52.8%
KEY RATIOS														
Diluted EPS growth ⁶		(15.5)%	7.2%	6.8%	20.2%	35.0%	176.0%	10.8%	2.3%	(0.9)%	(1.0)%	49.8%	41.4%	(10.6)%
Revenue growth ⁶		(4.9)%	(3.4)%	1.0%	11.6%	(1.3)%	12.4%	0.8%	(2.4)%	11.9%	(2.4)%	3.4%	5.3%	2.6%
Adjusted revenue growth ^{4,5,6}		(2.1)%	1.4%	7.1%	11.6%	3.0%	8.0%	1.9%	(0.6)%	6.8%	2.2%	4.2%	6.0%	4.2%
Non-interest expense growth ⁶		(0.5)%	0.9%	0.6%	8.7%	0.6%	7.4%	2.6%	(4.1)%	6.5%	0.3%	3.4%	4.7%	2.6%
Operating leverage ³		(4.4)%	(4.3)%	0.4%	2.9%	(1.9)%	5.0%	(1.8)%	1.7%	5.4%	(2.7)%	0.0%	0.6%	0.0%
Adjusted operating leverage ^{4,5}		(1.6)%	0.5%	6.5%	2.9%	2.4%	0.6%	(0.7)%	3.5%	0.3%	1.9%	0.8%	1.3%	1.6%
PCL on loans as a % of average net loans and acceptances		0.17%	(0.18)%	0.05%	(0.12)%	(0.28)%	(0.05)%	0.07%	0.23%	0.40%	0.02%	(0.09)%	(0.10)%	0.63%
PCL on performing loans (Stage 1 and 2) as a percentage of Average net loans and acceptances		0.09%	(0.27)%	(0.04)%	(0.19)%	(0.36)%	(0.16)%	(0.06)%	0.08%	0.17%	(0.07)%	(0.19)%	(0.20)%	0.39%
PCL on impaired loans (Stage 3) as a percentage of Average net loans and acceptances		0.08%	0.09%	0.09%	0.07%	0.08%	0.11%	0.13%	0.15%	0.23%	0.09%	0.10%	0.10%	0.24%
Net interest margin (NIM) (average earning assets, net) ³		1.52%	1.45%	1.39%	1.43%	1.51%	1.50%	1.50%	1.52%	1.49%	1.46%	1.50%	1.48%	1.55%
NIM (total average assets) ³		1.25%	1.18%	1.13%	1.17%	1.22%	1.20%	1.18%	1.22%	1.20%	1.19%	1.20%	1.19%	1.27%
NIM (total average assets) excluding Trading Assets, Trading net interest income and Insurance Assets ³		1.72%	1.59%	1.53%	1.55%	1.60%	1.58%	1.59%	1.62%	1.57%	1.61%	1.59%	1.58%	1.75%
Non-interest income as % of total revenue		51.5%	53.0%	59.7%	59.1%	60.4%	58.2%	61.1%	54.8%	60.2%	54.9%	60.0%	59.7%	55.8%
CAPITAL MEASURES - CONSOLIDATED														
Common Equity Tier 1 (CET1) capital ratio ³		13.1%	13.2%	13.5%	13.7%	13.6%	12.8%	12.5%	12.5%	12.0%	13.1%	13.6%	13.7%	12.5%
Tier 1 capital ratio		14.3%	14.4%	14.8%	14.9%	15.0%	14.1%	13.8%	13.5%	13.3%	14.3%	15.0%	14.9%	13.5%
Total capital ratio		15.9%	16.0%	16.6%	16.7%	16.7%	15.8%	15.5%	15.5%	15.3%	15.9%	16.7%	16.7%	15.5%
Total capital RWA (\$ billions)		589.0	585.8	569.3	552.5	543.0	555.6	557.5	546.2	551.4	589.0	543.0	552.5	546.2
Leverage ratio - all-in basis		4.6%	4.7%	4.8%	4.9%	5.0%	5.0%	4.8%	4.8%	4.8%	4.6%	5.0%	4.9%	4.8%
Leverage ratio exposure - all-in basis (\$ billions)		1,840.0	1,812.0	1,760.6	1,662.0	1,633.2	1,576.3	1,585.3	1,552.9	1,543.5	1,840.0	1,633.2	1,662.0	1,552.9

¹ PCL relates primarily to loans, acceptances and commitments and also to all other financial assets except for those classified or designated as FVTPL and equity securities designated as FVOCI.

² Average common shares outstanding includes the impact of treasury shares held.

³ See 'Glossary' beginning on page 36 for explanation of composition of this measure.

⁴ This is a non-GAAP ratio. This measure does not have a standardized meaning under GAAP and might not be comparable to similar financial measures disclosed by other issuers. For further information, refer to the Non-GAAP measures section on page 36.

⁵ These measures have been adjusted to exclude the change in fair value backing out policyholder liabilities.

⁶ Growth rates are calculated based on results in the same period a year ago.

² This is a non-GAAP ratio. This measure does not have a standardized meaning under GAAP and might not be comparable to similar financial measures disclosed by other issuers. For further information, refer to the Non-GAAP measures section on page 36.

FINANCIAL HIGHLIGHTS <i>continued</i> (Millions of Canadian dollars, except otherwise noted)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
SELECTED BALANCE SHEET INFORMATION														
Average loans and acceptances, net		802,000	772,700	752,100	728,600	703,200	688,900	684,600	675,200	680,900	775,700	692,300	701,400	668,400
Total Assets		1,842,092	1,848,572	1,752,469	1,706,323	1,693,540	1,615,316	1,671,151	1,624,548	1,683,134	1,842,092	1,693,540	1,706,323	1,624,548
Average assets ¹		1,876,300	1,834,400	1,843,400	1,711,500	1,647,600	1,658,900	1,694,100	1,639,800	1,707,100	1,851,600	1,667,000	1,678,200	1,636,700
Average assets excluding trading assets ¹ and insurance assets ¹		1,221,200	1,195,700	1,181,800	1,133,800	1,095,100	1,090,100	1,069,100	1,050,100	1,054,400	1,199,600	1,084,700	1,097,100	993,700
Average earning assets, net ¹		1,534,600	1,487,800	1,503,100	1,399,400	1,331,100	1,325,900	1,333,600	1,310,000	1,371,600	1,508,700	1,330,300	1,347,700	1,342,500
Deposits		1,178,604	1,151,597	1,142,842	1,100,831	1,084,878	1,033,323	1,054,597	1,011,885	1,017,158	1,178,604	1,084,878	1,100,831	1,011,885
Common equity		96,570	97,006	94,469	91,983	88,803	85,544	82,934	80,719	78,821	96,570	88,803	91,983	80,719
Average common equity		95,750	93,300	92,450	89,500	85,800	83,450	80,750	78,800	79,350	93,850	83,300	84,850	78,800
OTHER INFORMATION														
Number of employees (full-time equivalent)														
Canada		64,210	62,292	61,370	61,526	61,883	60,294	60,172	59,781	59,321	64,210	61,883	61,526	59,781
U.S.		15,105	14,551	14,531	14,361	14,433	13,950	14,004	14,149	14,407	15,105	14,433	14,361	14,149
Other		9,226	9,164	9,310	9,414	9,571	9,465	9,854	9,912	10,006	9,226	9,571	9,414	9,912
Total		88,541	86,007	85,211	85,301	85,887	83,709	84,030	83,842	83,734	88,541	85,887	85,301	83,842
Number of banking branches														
Canada		1,173	1,177	1,175	1,182	1,189	1,193	1,200	1,201	1,204	1,173	1,189	1,182	1,201
U.S.		71	74	73	74	75	74	75	76	74	71	75	74	76
Other		39	39	39	39	39	40	53	52	52	39	39	39	52
Total		1,283	1,290	1,287	1,295	1,303	1,307	1,328	1,329	1,330	1,283	1,303	1,295	1,329
Number of automated teller machines (ATMs)		4,364	4,377	4,368	4,378	4,374	4,469	4,523	4,557	4,561	4,364	4,374	4,378	4,557
Active digital (online and mobile) users (000's) ²		8,277	8,270	8,110	7,980	7,876	7,873	7,755	7,601	7,527	8,277	7,876	7,980	7,601
Active mobile users (000's) ²		5,962	5,826	5,695	5,547	5,394	5,266	5,171	5,031	4,917	5,962	5,394	5,547	5,031
MARKET RISK MEASURES - Interest Rate Risk in the Banking Book (IRRBB) Sensitivities														
Before-tax impact of 100 bps increase in rates on:³														
Net interest income risk ⁴		1,091	1,087	853	929	1,002	858	836	818	782	1,091	1,002	929	818
Economic value of equity		(1,411)	(2,054)	(2,162)	(2,009)	(1,935)	(2,064)	(1,882)	(1,756)	(1,763)	(1,411)	(1,935)	(2,009)	(1,756)
Before-tax impact of 100 bps decrease in rates on:³														
Net interest income risk ⁴		(1,189)	(1,214)	(964)	(921)	(852)	(858)	(714)	(621)	(570)	(1,189)	(852)	(921)	(621)
Economic value of equity		914	1,728	1,519	1,537	1,534	1,771	1,433	1,321	1,380	914	1,534	1,537	1,321

¹ See 'Glossary' beginning on page 36 for explanation of composition.

² This figure represents the 90-Day Active customers in Canadian Banking only.

³ Effective Q4 2020 the IRRBB 100 bps increase and decrease in rates scenarios were updated on a prospective basis in accordance with OSFI's B-12: *Interest Rate Risk Management guideline*. This resulted in the inclusion of EVE and NII risk arising from Capital Markets and treasury related services within Investor & Treasury Services banking book activities beginning in Q4 2020.

⁴ Amounts represent the 12-month Net interest income exposure to an instantaneous and sustained shift in interest rates.

STATEMENTS OF INCOME (Millions of Canadian dollars)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Net interest income														
Interest and dividend income		10,737	7,758	7,378	7,014	6,997	6,898	7,236	7,463	7,956	25,873	21,131	28,145	34,883
Interest expense		4,847	2,484	2,107	1,953	1,945	2,044	2,201	2,453	2,817	9,438	6,190	8,143	14,048
Total		5,890	5,274	5,271	5,061	5,052	4,854	5,035	5,010	5,139	16,435	14,941	20,002	20,835
Non-interest income														
Accounts		351	345	345	344	333	337	334	336	317	1,041	1,004	1,348	1,361
Other payment services		148	135	140	131	132	123	124	120	113	423	379	510	481
Service charges		499	480	485	475	465	460	458	456	430	1,464	1,383	1,858	1,842
Insurance premiums, investment and fee income		1,233	234	1,399	1,501	1,754	536	1,809	958	2,212	2,866	4,099	5,600	5,361
Trading revenue		(128)	289	314	103	179	377	524	224	623	475	1,080	1,183	1,239
Investment management and custodial fees		1,857	1,892	1,961	1,888	1,830	1,711	1,703	1,577	1,489	5,710	5,244	7,132	6,101
Mutual fund revenue		1,028	1,086	1,165	1,142	1,095	1,014	1,000	961	915	3,279	3,109	4,251	3,712
Securities brokerage commissions		344	389	399	350	356	431	401	320	341	1,132	1,188	1,538	1,439
Underwriting and other advisory fees		369	507	701	655	700	747	590	578	570	1,577	2,037	2,692	2,319
Foreign exchange revenue, other than trading		250	251	271	239	246	292	289	233	246	772	827	1,066	1,012
Card service revenue		314	288	291	247	278	281	272	211	259	893	831	1,078	969
Credit fees		301	398	476	418	412	368	332	361	296	1,175	1,112	1,530	1,321
Net gain on investment securities		28	23	15	20	8	82	35	23	11	66	125	145	90
Share of profit (loss) in joint ventures and associates		33	24	29	34	47	24	25	20	20	86	96	130	77
Other		114	85	289	243	334	441	470	160	369	488	1,245	1,488	864
Total		6,242	5,946	7,795	7,315	7,704	6,764	7,908	6,082	7,781	19,983	22,376	29,691	26,346
Total revenue		12,132	11,220	13,066	12,376	12,756	11,618	12,943	11,092	12,920	36,418	37,317	49,693	47,181
Provision for credit losses		340	(342)	105	(227)	(540)	(96)	110	427	675	103	(526)	(753)	4,351
Insurance policyholder benefits, claims and acquisition expense		850	(180)	997	1,032	1,304	149	1,406	461	1,785	1,667	2,859	3,891	3,683
Non-interest expense		6,386	6,434	6,580	6,583	6,420	6,379	6,542	6,058	6,380	19,400	19,341	25,924	24,758
Income before income taxes		4,556	5,308	5,384	4,988	5,572	5,186	4,885	4,146	4,080	15,248	15,643	20,631	14,389
Income taxes		979	1,055	1,289	1,096	1,276	1,171	1,038	900	879	3,323	3,485	4,581	2,952
Net income		3,577	4,253	4,095	3,892	4,296	4,015	3,847	3,246	3,201	11,925	12,158	16,050	11,437
Net income (loss) attributable to:														
Shareholders		3,575	4,250	4,093	3,887	4,292	4,014	3,845	3,247	3,197	11,918	12,151	16,038	11,432
Non-controlling interests (NCI)		2	3	2	5	4	1	2	(1)	4	7	7	12	5
Net income		3,577	4,253	4,095	3,892	4,296	4,015	3,847	3,246	3,201	11,925	12,158	16,050	11,437
Net income		3,577	4,253	4,095	3,892	4,296	4,015	3,847	3,246	3,201	11,925	12,158	16,050	11,437
Non-controlling interests (NCI)		(2)	(3)	(2)	(5)	(4)	(1)	(2)	1	(4)	(7)	(7)	(12)	(5)
Dividends on preferred shares and distributions on other equity instruments		(58)	(68)	(54)	(68)	(55)	(76)	(58)	(74)	(65)	(180)	(189)	(257)	(268)
Net income available to common shareholders		3,517	4,182	4,039	3,819	4,237	3,938	3,787	3,173	3,132	11,738	11,962	15,781	11,164

REVENUE FROM TRADING ACTIVITIES (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Total trading revenue													
Net interest income ¹	608	642	720	618	623	642	740	728	967	1,970	2,005	2,623	3,459
Non-interest income ²	(128)	289	314	103	179	377	524	224	623	475	1,080	1,183	1,239
Total	480	931	1,034	721	802	1,019	1,264	952	1,590	2,445	3,085	3,806	4,698
Trading revenue by product													
Interest rate and credit ²	4	370	477	335	390	476	747	487	975	851	1,613	1,948	2,838
Equities	297	344	346	251	268	414	352	354	422	987	1,034	1,285	1,234
Foreign exchange and commodities	179	217	211	135	144	129	165	111	193	607	438	573	626
Total	480	931	1,034	721	802	1,019	1,264	952	1,590	2,445	3,085	3,806	4,698
Trading revenue (teb) by product													
Interest rate and credit ²	4	370	477	335	390	476	747	487	975	851	1,613	1,948	2,838
Equities	427	474	476	361	384	535	465	466	527	1,377	1,384	1,745	1,673
Foreign exchange and commodities	179	217	211	135	144	129	165	111	194	607	438	573	626
Total (teb)	610	1,061	1,164	831	918	1,140	1,377	1,064	1,696	2,835	3,435	4,266	5,137
Trading revenue (teb) by product - Capital Markets													
Interest rate and credit ²	(124)	305	411	250	326	422	650	399	832	592	1,398	1,648	2,361
Equities	414	453	490	360	383	522	484	465	488	1,357	1,389	1,749	1,598
Foreign exchange and commodities	131	171	170	111	118	106	132	102	157	472	356	467	467
Total (teb)	421	929	1,071	721	827	1,050	1,266	966	1,477	2,421	3,143	3,864	4,426
Trading revenue - Investor & Treasury Services	99	58	49	53	32	31	50	17	101	206	113	166	380

¹ Reflects net interest income arising from trading-related positions, including assets and liabilities that are classified or designated at FVTPL.

² Includes loan underwriting commitments.

REALIZED GAINS AND LOSSES ON INVESTMENT SECURITIES (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Realized gains	38	24	17	23	9	86	41	58	71	79	136	159	231
Realized losses	(10)	(1)	(2)	(3)	(1)	(4)	-	(3)	(6)	(13)	(5)	(8)	(13)
Net gains (losses) on investment securities	28	23	15	20	8	82	41	55	65	66	131	151	218
Less: Amount booked in Insurance premium, investment and fee income	-	-	-	-	-	-	6	32	54	-	6	6	128
Net gains (losses) on investment securities net of Insurance premium, investment and fee income	28	23	15	20	8	82	35	23	11	66	125	145	90

NON-INTEREST EXPENSE (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Human resources													
Salaries	1,820	1,748	1,748	1,744	1,684	1,641	1,655	1,712	1,723	5,316	4,980	6,724	6,758
Variable compensation	1,473	1,754	1,941	1,651	1,816	1,874	1,804	1,371	1,653	5,168	5,494	7,145	6,040
Benefits and retention compensation	497	483	549	496	511	503	543	447	498	1,529	1,557	2,053	1,994
Share-based compensation ¹	68	17	47	97	100	134	286	57	158	132	520	617	460
Total Human resources	3,858	4,002	4,285	3,988	4,111	4,152	4,288	3,587	4,032	12,145	12,551	16,539	15,252
Equipment													
Depreciation	89	89	86	91	94	90	90	97	93	264	274	365	385
Computer rental and maintenance	421	423	410	419	394	392	389	406	370	1,254	1,175	1,594	1,501
Office equipment rental and maintenance	4	1	5	4	4	5	14	5	6	10	23	27	21
Total Equipment	514	513	501	514	492	487	493	508	469	1,528	1,472	1,986	1,907
Occupancy													
Premises rent	18	17	16	19	17	19	19	19	25	51	55	74	81
Premises repairs and maintenance	106	111	109	112	106	117	124	127	122	326	347	459	491
Depreciation	225	225	227	230	229	228	224	251	233	677	681	911	948
Property taxes	32	33	34	32	35	36	37	34	35	99	108	140	140
Total Occupancy	381	386	386	393	387	400	404	431	415	1,153	1,191	1,584	1,660
Communications													
Telecommunications	37	38	37	38	40	40	42	44	45	112	122	160	168
Postage and courier	44	49	46	39	39	51	43	44	47	139	133	172	198
Marketing and public relations	178	150	128	182	126	109	113	148	116	456	348	530	542
Stationery and printing	18	21	17	20	22	12	15	18	25	56	49	69	81
Total Communications	277	258	228	279	227	212	213	254	233	763	652	931	989
Professional fees	373	347	319	417	329	314	291	385	337	1,039	934	1,351	1,330
Amortization of other intangibles													
Computer software	280	273	274	267	258	256	255	254	259	827	769	1,036	999
Other	62	63	63	63	62	62	64	76	66	188	188	251	274
Total Amortization of other intangibles	342	336	337	330	320	318	319	330	325	1,015	957	1,287	1,273
Other													
Business and capital taxes	41	32	25	32	26	31	23	23	26	98	80	112	95
Travel and relocation	32	20	14	9	7	6	4	9	8	66	17	26	96
Employee training	13	11	11	14	9	10	8	11	8	35	27	41	42
Donations	43	30	30	33	35	29	28	31	34	103	92	125	126
Outsourced item processing	28	29	25	23	25	24	26	22	24	82	75	98	101
Impairment of other intangibles	1	4	2	14	13	1	1	32	1	7	15	29	42
Impairment of investments in joint ventures and associates	-	-	1	-	2	-	1	1	1	1	3	3	4
Other	483	466	416	537	437	395	443	434	467	1,365	1,275	1,812	1,841
Total Other	641	592	524	662	554	496	534	563	569	1,757	1,584	2,246	2,347
Total non-interest expense	6,386	6,434	6,580	6,583	6,420	6,379	6,542	6,058	6,380	19,400	19,341	25,924	24,758

¹ Share-based compensation includes the cost of stock options, performance deferred shares, deferred compensation plans and the impact of related economic hedges.

PERSONAL & COMMERCIAL BANKING (Millions of Canadian dollars, except percentage amounts)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Income Statement													
Net interest income	3,655	3,234	3,229	3,169	3,206	3,085	3,161	3,114	3,079	10,118	9,452	12,621	12,568
Non-interest income	1,527	1,505	1,574	1,436	1,445	1,442	1,402	1,259	1,269	4,606	4,289	5,725	5,163
Total revenue	5,182	4,739	4,803	4,605	4,651	4,527	4,563	4,373	4,348	14,724	13,741	18,346	17,731
PCL on performing assets ¹	141	(420)	(60)	(342)	(341)	(166)	(60)	135	247	(339)	(567)	(909)	1,818
PCL on impaired assets ¹	183	144	189	134	162	201	225	181	280	516	588	722	1,073
Total PCL	324	(276)	129	(208)	(179)	35	165	316	527	177	21	(187)	2,891
Non-interest expense	2,130	2,015	2,022	2,087	1,998	1,915	1,978	2,030	1,985	6,167	5,891	7,978	7,946
Income taxes	705	766	678	693	719	669	627	525	469	2,149	2,015	2,708	1,807
Net income	2,023	2,234	1,974	2,033	2,113	1,908	1,793	1,502	1,367	6,231	5,814	7,847	5,087
Total revenue by business													
Personal Banking	3,556	3,337	3,425	3,331	3,390	3,308	3,308	3,132	3,124	10,318	10,006	13,337	12,703
Business Banking	1,418	1,194	1,173	1,083	1,073	1,033	1,044	1,033	1,011	3,785	3,150	4,233	4,135
Canadian Banking	4,974	4,531	4,598	4,414	4,463	4,341	4,352	4,165	4,135	14,103	13,156	17,570	16,838
Caribbean & U.S. Banking	208	208	205	191	188	186	211	208	213	621	585	776	893
Total	5,182	4,739	4,803	4,605	4,651	4,527	4,563	4,373	4,348	14,724	13,741	18,346	17,731
Financial ratios													
ROE ²	29.2%	34.4%	29.8%	32.5%	33.6%	31.8%	30.1%	26.0%	23.4%	31.0%	31.9%	32.0%	21.7%
NIM (average earning assets, net)	2.61%	2.46%	2.41%	2.42%	2.52%	2.56%	2.56%	2.59%	2.60%	2.50%	2.55%	2.51%	2.67%
Efficiency ratio	41.1%	42.5%	42.1%	45.3%	43.0%	42.3%	43.3%	46.4%	45.7%	41.9%	42.9%	43.5%	44.8%
Operating leverage	4.8%	(0.5)%	3.1%	2.5%	6.3%	4.5%	(0.7)%	(5.4)%	(5.7)%	2.5%	3.3%	3.1%	(3.1)%
Average balances													
Total assets	582,700	566,500	556,400	543,900	530,400	518,600	515,200	503,200	494,800	568,600	521,400	527,100	494,600
Earning assets, net	555,400	540,100	530,800	518,900	505,600	493,400	489,800	478,500	470,300	542,100	496,300	502,000	470,200
Loans and acceptances, net	560,300	544,000	534,400	522,200	509,300	497,400	493,500	482,000	473,400	546,300	500,100	505,600	473,400
Deposits	555,300	543,400	539,300	524,300	507,600	495,000	490,100	481,300	465,100	546,000	497,600	504,300	447,300
Attributed capital ²	27,250	26,400	26,100	24,550	24,750	24,250	23,350	22,700	22,850	26,600	24,100	24,200	23,100
Risk capital ²	22,850	21,950	21,650	20,100	20,300	19,800	18,900	18,250	18,300	22,150	19,650	19,750	18,550
Credit quality													
Gross impaired loans (GIL) / Related loans and acceptances ²	0.24%	0.26%	0.28%	0.30%	0.31%	0.34%	0.35%	0.33%	0.36%	0.24%	0.31%	0.30%	0.33%
PCL on performing loans (Stage 1 and 2) / Average net loans and acceptance	0.10%	(0.32)%	(0.04)%	(0.25)%	(0.26)%	(0.14)%	(0.04)%	0.11%	0.20%	(0.08)%	(0.15)%	(0.17)%	0.38%
PCL on impaired loans (Stage 3) / Average net loans and acceptances	0.13%	0.11%	0.14%	0.10%	0.13%	0.17%	0.18%	0.15%	0.24%	0.13%	0.16%	0.14%	0.23%
Net write-offs ² / Average net loans and acceptances	0.12%	0.12%	0.00%	0.12%	0.13%	0.15%	0.13%	0.16%	0.22%	0.12%	0.14%	0.13%	0.22%
Business information													
Assets under administration (AUA) ^{2,3}	346,500	355,800	371,100	367,700	356,100	339,000	320,900	292,800	293,100	346,500	356,100	367,700	292,800
Assets under management (AUM) ²	5,400	5,700	5,700	5,400	5,400	5,200	5,300	5,300	5,200	5,400	5,400	5,400	5,300
Number of employees (full-time equivalent)	37,648	36,795	36,428	36,675	36,775	35,999	36,226	35,964	35,330	37,648	36,775	36,675	35,964
After-tax effect of amortization of other intangibles	5	6	6	5	6	6	6	14	3	17	18	23	23

¹ PCL on performing assets represents Stage 1 and 2 PCL on all performing assets, except those classified or designated as FVTPL and equity securities designated as FVOCI. PCL on impaired assets represents Stage 3 PCL. Stage 3 PCL is comprised of lifetime credit losses of all credit-impaired financial assets, except those classified or designated as FVTPL and equity securities designated as FVOCI.

² See 'Glossary' beginning on page 36 for explanation of composition of this measure.

³ AUA represents period-end spot balances and includes securitized residential mortgages and credit card loans as at July 31, 2022 of \$14 billion and \$5 billion, respectively (April 30, 2022 of \$14 billion and \$4 billion; July 31, 2021 of \$15 billion and \$3 billion).

CANADIAN BANKING (Millions of Canadian dollars, except percentage amounts)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Income Statement													
Net interest income	3,508	3,107	3,103	3,046	3,085	2,964	3,022	2,973	2,933	9,718	9,071	12,117	11,942
Non-interest income	1,466	1,424	1,495	1,368	1,378	1,377	1,330	1,192	1,202	4,385	4,085	5,453	4,896
Total revenue	4,974	4,531	4,598	4,414	4,463	4,341	4,352	4,165	4,135	14,103	13,156	17,570	16,838
PCL on performing assets ¹	151	(376)	(51)	(317)	(283)	(160)	(62)	129	250	(276)	(505)	(822)	1,621
PCL on impaired assets ¹	180	146	186	146	161	195	217	169	264	512	573	719	1,072
Total PCL	331	(230)	135	(171)	(122)	35	155	298	514	236	68	(103)	2,693
Non-interest expense	1,977	1,869	1,876	1,933	1,849	1,770	1,823	1,872	1,816	5,722	5,442	7,375	7,270
Income taxes	695	752	673	682	712	664	620	521	475	2,120	1,996	2,678	1,798
Net income	1,971	2,140	1,914	1,970	2,024	1,872	1,754	1,474	1,330	6,025	5,650	7,620	5,077
Total revenue by business													
Personal Banking	3,556	3,337	3,425	3,331	3,390	3,308	3,308	3,132	3,124	10,318	10,006	13,337	12,703
Business Banking	1,418	1,194	1,173	1,083	1,073	1,033	1,044	1,033	1,011	3,785	3,150	4,233	4,135
Total	4,974	4,531	4,598	4,414	4,463	4,341	4,352	4,165	4,135	14,103	13,156	17,570	16,838
Financial ratios													
ROE ²	31.8%	36.9%	32.4%	35.6%	36.2%	35.4%	33.6%	29.1%	26.3%	33.7%	35.1%	35.2%	24.9%
NIM (average earning assets, net)	2.60%	2.45%	2.41%	2.42%	2.51%	2.55%	2.54%	2.56%	2.58%	2.49%	2.53%	2.50%	2.64%
Efficiency ratio	39.7%	41.2%	40.8%	43.8%	41.4%	40.8%	41.9%	44.9%	43.9%	40.6%	41.4%	42.0%	43.2%
Operating leverage	4.5%	(1.2)%	2.8%	2.7%	6.1%	4.7%	(1.6)%	(6.8)%	(5.5)%	2.1%	3.0%	2.9%	(3.3)%
Average balances													
Total assets	557,000	541,000	531,400	519,500	507,100	495,100	491,100	479,000	470,500	543,200	497,800	503,300	470,400
Earning assets, net	535,700	520,500	511,300	500,200	487,900	476,200	472,600	461,300	452,800	522,500	478,900	484,300	452,500
Loans and acceptances, net ³	550,000	534,100	524,700	512,900	500,400	488,400	484,300	472,500	463,700	536,300	491,100	496,600	463,700
Residential mortgages ³	353,800	344,800	338,200	329,500	320,100	310,600	305,100	293,000	283,400	345,600	311,900	316,400	281,100
Home equity lines of credit (HELOC) ³	36,200	35,500	35,400	35,200	35,200	35,300	36,500	37,100	37,100	35,700	35,700	35,500	37,600
Other personal ^{3,4}	39,700	39,500	39,600	39,600	39,500	39,500	40,100	40,000	39,400	39,600	39,700	39,700	40,000
Total personal ³	75,900	75,000	75,000	74,800	74,700	74,800	76,600	77,100	76,500	75,300	75,400	75,200	77,600
Credit cards ³	18,700	17,300	17,600	17,100	16,500	16,000	17,000	17,300	16,900	17,900	16,500	16,600	18,100
Small business ^{3,5}	12,200	12,000	11,900	12,000	11,500	11,100	5,700	5,700	5,700	12,000	9,500	10,100	5,600
Total retail ^{3,5}	460,600	449,100	442,700	433,400	422,800	412,500	404,400	393,100	382,500	450,800	413,300	418,300	382,400
Wholesale loans and acceptances ^{3,5}	91,900	87,900	84,900	82,800	81,200	79,600	83,600	83,000	84,500	88,300	81,500	81,900	84,100
Personal deposits	283,400	274,000	267,500	263,500	259,200	254,500	252,100	248,400	243,300	275,000	255,300	257,400	234,900
Business deposits	251,100	248,900	251,800	241,400	229,800	222,400	219,600	214,300	203,100	250,600	223,900	228,300	194,000
Attributed capital ²	24,400	23,600	23,250	21,750	22,050	21,450	20,550	19,850	19,850	23,750	21,350	21,450	20,150
Risk capital ²	21,650	20,850	20,500	19,000	19,250	18,650	17,800	17,150	17,150	21,000	18,600	18,700	17,450
Credit quality													
GIL / Related loans and acceptances ²	0.18%	0.20%	0.22%	0.24%	0.25%	0.28%	0.28%	0.26%	0.30%	0.18%	0.25%	0.24%	0.26%
PCL on performing loans (Stage 1 and 2) / Average net loans and acceptances	0.11%	(0.29)%	(0.04)%	(0.24)%	(0.22)%	(0.13)%	(0.05)%	0.11%	0.21%	(0.07)%	(0.14)%	(0.16)%	0.35%
PCL on impaired loans (Stage 3) / Average net loans and acceptances	0.13%	0.11%	0.14%	0.11%	0.13%	0.16%	0.18%	0.14%	0.23%	0.13%	0.16%	0.14%	0.23%
Net write-offs ² / Average net loans and acceptances	0.12%	0.12%	0.10%	0.12%	0.13%	0.15%	0.13%	0.16%	0.22%	0.11%	0.14%	0.13%	0.22%
Business information													
AUA ⁶	340,300	349,600	364,700	362,000	350,300	333,600	315,200	286,900	286,900	340,300	350,300	362,000	286,900
Number of employees (full-time equivalent)	35,438	34,591	34,208	34,419	34,498	33,689	33,716	33,417	32,768	35,438	34,498	34,419	33,417
After-tax effect of amortization of other intangibles	5	6	6	6	6	6	6	13	4	17	18	24	22

¹ PCL on performing assets represents Stage 1 and 2 PCL on all performing assets, except those classified or designated as FVTPL and equity securities designated as FVOCI. PCL on impaired assets represents Stage 3 PCL. Stage 3 PCL is comprised of lifetime credit losses of all credit-impaired financial assets, except those classified or designated as FVTPL and equity securities designated as FVOCI.

² See 'Glossary' beginning on page 36 for explanation of composition of this measure.

³ Average loans and acceptances, net are reported net of allowance for credit losses (ACL). All other average balances are reported on a gross basis (before deducting ACL).

⁴ As at Q3 2022, average personal secured loans was \$19.5 billion and average personal unsecured loans was \$20.2 billion. The loans are secured by securities, residential real estate, automotive assets and government guarantees.

⁵ Commencing Q2 2021, certain loans are now classified as Retail - Small business and were previously classified as Wholesale, reflecting an alignment with capital measurement and reporting.

⁶ AUA represents period-end spot balances and includes securitized residential mortgages and credit card loans as at July 31, 2022 of \$14 billion and \$5 billion, respectively (April 30, 2022 of \$14 billion and \$4 billion; July 31, 2021 of \$15 billion and \$3 billion).

WEALTH MANAGEMENT (Millions of Canadian dollars, except percentage amounts)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Income Statement													
Net interest income	960	780	745	675	682	666	666	686	699	2,485	2,014	2,689	2,860
Non-interest income	2,695	2,825	2,868	2,769	2,691	2,594	2,553	2,375	2,309	8,388	7,838	10,607	9,270
Total revenue	3,655	3,605	3,613	3,444	3,373	3,260	3,219	3,061	3,008	10,873	9,852	13,296	12,130
PCL on performing assets ¹	12	(30)	(13)	(7)	(19)	(5)	(2)	51	31	(31)	(26)	(33)	157
PCL on impaired assets ¹	1	-	1	12	(2)	3	(27)	-	43	2	(26)	(14)	57
Total PCL	13	(30)	(12)	5	(21)	(2)	(29)	51	74	(29)	(52)	(47)	214
Non-interest expense	2,618	2,644	2,581	2,718	2,434	2,371	2,406	2,304	2,226	7,843	7,211	9,929	9,123
Income taxes	247	241	249	163	216	208	201	160	161	737	625	788	639
Net income	777	750	795	558	744	683	641	546	547	2,322	2,068	2,626	2,154
Total revenue by business													
Canadian Wealth Management	1,070	1,071	1,072	1,032	1,012	964	900	835	806	3,213	2,876	3,908	3,319
U.S. Wealth Management (including City National)	1,878	1,775	1,727	1,628	1,592	1,566	1,534	1,532	1,503	5,380	4,692	6,320	6,116
Global Asset Management	609	678	736	711	692	628	695	608	606	2,023	2,015	2,726	2,308
International Wealth Management	98	81	78	73	77	102	90	86	93	257	269	342	387
Total	3,655	3,605	3,613	3,444	3,373	3,260	3,219	3,061	3,008	10,873	9,852	13,296	12,130
Financial ratios													
ROE ²	16.0%	16.7%	17.7%	13.1%	18.3%	17.0%	15.4%	13.0%	12.9%	16.8%	16.9%	15.9%	13.1%
NIM (average earning assets, net)	2.75%	2.32%	2.11%	2.06%	2.25%	2.38%	2.34%	2.50%	2.58%	2.39%	2.32%	2.25%	2.79%
Pre-tax margin	28.0%	27.5%	28.9%	20.9%	28.5%	27.3%	26.2%	23.1%	23.5%	28.1%	27.3%	25.7%	23.0%
Average balances													
Total assets	154,700	154,800	157,500	146,600	136,300	131,200	129,600	126,300	124,900	155,700	132,400	136,000	119,500
Earning assets, net	138,700	137,900	139,900	130,000	120,200	114,800	112,900	109,300	107,800	138,900	116,000	119,500	102,600
Loans and acceptances, net ³	101,100	95,700	92,900	87,000	83,800	83,100	81,800	81,000	81,300	96,600	82,900	84,000	76,700
Retail loans ³	47,100	44,400	42,700	39,300	36,200	33,900	32,800	31,900	31,300	44,700	34,300	35,500	30,800
Wholesale loans and acceptances ³	54,300	51,600	50,600	48,100	48,000	49,600	49,400	49,500	50,300	52,200	49,000	48,800	46,200
Deposits	156,800	158,800	161,500	151,500	142,800	139,700	137,900	132,100	131,100	159,100	140,100	143,000	122,000
Attributed capital ²	18,950	18,100	17,600	16,550	15,950	16,100	16,200	16,200	16,450	18,200	16,100	16,200	16,050
Risk capital ²	12,100	11,150	10,650	9,650	9,050	9,050	9,000	8,850	8,950	11,300	9,050	9,200	8,550
Credit quality													
GIL / Related loans and acceptances ²	0.22%	0.22%	0.21%	0.26%	0.37%	0.40%	0.34%	0.41%	0.60%	0.22%	0.37%	0.26%	0.41%
GIL on acquired credit impaired loans / Related loans and acceptances	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
PCL on performing loans (Stage 1 and 2) / Average net loans and acceptances	0.04%	(0.13)%	(0.05)%	(0.03)%	(0.09)%	(0.03)%	(0.01)%	0.25%	0.17%	(0.04)%	(0.04)%	(0.03)%	0.21%
PCL on impaired loans (Stage 3) / Average net loans and acceptances	0.01%	0.00%	0.00%	0.05%	(0.01)%	0.02%	(0.13)%	0.00%	0.21%	0.00%	(0.04)%	(0.02)%	0.07%
Net write-offs ² / Average net loans and acceptances	0.03%	0.00%	(0.04)%	0.11%	(0.03)%	(0.02)%	(0.03)%	0.04%	0.17%	0.00%	(0.03)%	0.01%	0.07%

¹ PCL on performing assets represents Stage 1 and 2 PCL on all performing assets, except those classified or designated as FVTPL and equity securities designated as FVOCI. PCL on impaired assets represents Stage 3 PCL. Stage 3 PCL is comprised of lifetime credit losses of all credit-impaired financial assets, except those classified or designated as FVTPL and equity securities designated as FVOCI.

² See 'Glossary' beginning on page 36 for explanation of composition of this measure.

³ Average total loans and acceptances are reported net of ACL. Average retail and wholesale loans and acceptance balances are reported on a gross basis (before deducting ACL).

WEALTH MANAGEMENT <i>continued</i> (Millions of Canadian dollars, except percentage amounts)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020	
Business information															
AUA															
Canadian Wealth Management		514,800	518,500	534,100	524,200	509,600	484,000	453,800	416,700	414,400	514,800	509,600	524,200	416,700	
U.S. Wealth Management (including City National)		683,400	681,600	712,700	704,200	690,400	651,300	623,000	583,800	584,500	683,400	690,400	704,200	583,800	
Global Asset Management		6,600	6,800	7,100	7,100	7,000	6,700	6,500	6,100	6,200	6,600	7,000	7,100	6,100	
International Wealth Management		90,300	95,000	87,200	86,800	85,800	85,000	97,100	93,400	92,000	90,300	85,800	86,800	93,400	
Total		1,295,100	1,301,900	1,341,100	1,322,300	1,292,800	1,227,000	1,180,400	1,100,000	1,097,100	1,295,100	1,292,800	1,322,300	1,100,000	
AUM															
Canadian Wealth Management		171,500	171,900	175,200	168,900	161,400	150,300	138,400	125,700	124,300	171,500	161,400	168,900	125,700	
U.S. Wealth Management (including City National)		208,600	208,800	229,800	225,500	218,400	203,600	194,400	183,000	181,400	208,600	218,400	225,500	183,000	
Global Asset Management		541,600	560,800	599,100	597,300	586,800	558,900	547,800	518,500	519,600	541,600	586,800	597,300	518,500	
International Wealth Management		7,900	8,300	9,000	8,900	9,000	9,500	9,400	9,200	8,800	7,900	9,000	8,900	9,200	
Total		929,600	949,800	1,013,100	1,000,600	975,600	922,300	890,000	836,400	834,100	929,600	975,600	1,000,600	836,400	
Number of employees (full-time equivalent)		20,363	19,948	19,775	19,486	19,391	18,925	18,962	18,978	19,010	20,363	19,391	19,486	18,978	
After-tax effect of amortization of other intangibles		36	38	38	38	38	38	39	42	44	112	115	153	172	
(Millions of U.S. dollars)															
U.S. Wealth Management (including City National)															
Revenue		1,470	1,399	1,359	1,296	1,293	1,250	1,196	1,158	1,107	4,228	3,739	5,035	4,553	
AUA		533,600	530,400	560,800	568,800	553,300	529,800	487,000	438,200	436,400	533,600	553,300	568,800	438,200	

INSURANCE (Millions of Canadian dollars, except percentage amounts)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Income Statement													
Net earned premiums ¹	936	1,210	1,599	1,569	1,094	929	1,248	986	974	3,745	3,271	4,840	4,267
Investment income, gains/(losses) on assets supporting insurance policyholder liabilities ²	245	(1,022)	(252)	(128)	613	(432)	524	(71)	1,196	(1,029)	705	577	938
Fee income	52	46	52	60	47	39	37	43	42	150	123	183	156
Total revenue	1,233	234	1,399	1,501	1,754	536	1,809	958	2,212	2,866	4,099	5,600	5,361
PBCAE	850	(180)	997	1,032	1,304	149	1,406	461	1,785	1,667	2,859	3,891	3,683
PCL	-	-	-	(1)	-	-	-	(1)	-	-	-	(1)	-
Non-interest expense	139	145	147	152	155	140	149	151	140	431	444	596	592
Income taxes	58	63	58	51	61	60	53	93	71	179	174	225	255
Net income	186	206	197	267	234	187	201	254	216	589	622	889	831
Total revenue by business													
Canadian Insurance	597	(507)	693	796	1,136	(172)	1,157	299	1,636	783	2,121	2,917	2,974
International Insurance	636	741	706	705	618	708	652	659	576	2,083	1,978	2,683	2,387
Total	1,233	234	1,399	1,501	1,754	536	1,809	958	2,212	2,866	4,099	5,600	5,361
Financial ratios													
ROE ³	32.3%	34.6%	32.4%	42.8%	39.5%	32.1%	34.5%	42.5%	35.9%	33.1%	35.4%	37.4%	36.1%
Average balances													
Total assets	21,500	22,900	23,500	22,300	21,300	21,200	21,700	21,300	20,400	22,600	21,400	21,600	20,300
Attributed capital ³	2,250	2,400	2,400	2,450	2,350	2,350	2,300	2,350	2,400	2,350	2,350	2,350	2,300
Risk capital ³	2,000	2,200	2,150	2,200	2,100	2,150	2,050	2,150	2,150	2,100	2,100	2,150	2,050
Additional information													
Premiums and deposits ⁴	1,155	1,458	1,814	1,795	1,321	1,161	1,444	1,129	1,131	4,427	3,926	5,721	4,950
Canadian Insurance	550	824	1,165	1,142	645	559	816	519	536	2,539	2,020	3,162	2,493
International Insurance	605	634	649	653	676	602	628	610	595	1,888	1,906	2,559	2,457
Fair value changes on investments backing policyholder liabilities ⁵	115	(1,133)	(430)	(266)	475	(568)	346	(235)	997	(1,448)	253	(13)	277
PBCAE													
Insurance policyholder benefits and claims	773	(261)	914	939	1,218	59	1,331	391	1,715	1,426	2,608	3,547	3,384
Insurance policyholder acquisition expense	77	81	83	93	86	90	75	70	70	241	251	344	299
Insurance claims and policy benefit liabilities	12,033	12,073	12,973	12,816	12,496	12,109	12,754	12,215	12,421	12,033	12,496	12,816	12,215
Business information													
AUM	2,700	2,700	2,700	2,700	2,500	2,300	2,100	1,900	1,900	2,700	2,500	2,700	1,900
Number of employees (full-time equivalent)	2,583	2,543	2,503	2,573	2,637	2,669	2,731	2,772	2,880	2,583	2,637	2,573	2,772

¹ Net earned premiums excludes the cost of premiums to other institutions for reinsurance coverage, plus segregated fund deposits.

² Includes unrealized gains and losses on investments backing policyholder liabilities attributable to fluctuation of assets designated as FVTPL. The investments which support actuarial liabilities are predominantly fixed income assets designated as FVTPL. Consequently, changes in the fair values of these assets are recorded in Insurance premiums, investment and fee income in the Statements of Income and are largely offset by changes in the fair value of the actuarial liabilities, the impact of which is reflected in Insurance policyholder benefits, claims and acquisition expense (PBCAE).

³ See 'Glossary' beginning on page 36 for explanation of composition of this measure.

⁴ Premiums and deposits include premiums on risk-based insurance and annuity products, and individual and group segregated fund deposits, consistent with insurance industry practices.

⁵ The revenue impact of the change in fair value on investments backing policyholder liabilities is reflected in Insurance premiums, investment and fee income and largely offset in PBCAE.

INVESTOR & TREASURY SERVICES (Millions of Canadian dollars, except percentage amounts)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Income Statement														
Net interest income		188	148	163	155	127	87	91	108	89	499	305	460	329
Non-interest income		394	403	424	393	390	447	474	413	395	1,221	1,311	1,704	1,982
Total revenue		582	551	587	548	517	534	565	521	484	1,720	1,616	2,164	2,311
PCL		(3)	-	-	(1)	(3)	(2)	(2)	(4)	(4)	(3)	(7)	(8)	6
Non-interest expense		374	398	420	412	401	375	401	407	388	1,192	1,177	1,589	1,589
Income taxes		47	32	49	28	31	41	43	27	24	128	115	143	180
Net income		164	121	118	109	88	120	123	91	76	403	331	440	536
Financial ratios														
ROE ¹		20.2%	16.1%	15.7%	15.2%	11.1%	14.3%	15.3%	10.1%	8.4%	17.4%	13.6%	14.0%	15.9%
Average balances														
Total assets		247,400	244,800	247,900	233,000	224,200	245,200	239,600	238,000	247,300	246,700	236,300	235,400	204,300
Trading securities		6,300	3,500	4,700	8,500	6,600	11,200	18,900	21,800	28,200	4,800	12,300	11,300	22,400
Loans and acceptances, net		12,100	12,200	11,700	10,700	9,000	8,200	8,100	7,700	7,100	12,000	8,500	9,000	6,900
Deposits		243,800	239,100	244,000	233,300	221,100	220,400	204,300	187,000	195,700	242,300	215,200	219,800	187,900
Client deposits		59,900	61,400	66,300	65,700	64,600	64,000	63,100	63,300	65,800	62,600	63,900	64,400	63,000
Wholesale funding deposits		183,900	177,700	177,700	167,600	156,500	156,400	141,200	123,700	129,900	179,700	151,300	155,400	124,900
Attributed capital ¹		3,200	3,000	2,950	2,750	3,050	3,350	3,150	3,450	3,450	3,050	3,200	3,100	3,300
Risk capital ¹		2,650	2,450	2,400	2,200	2,500	2,750	2,500	2,850	2,800	2,500	2,600	2,500	2,700
Business information														
AUA		4,089,900	4,443,800	4,716,500	4,640,900	4,704,400	4,530,100	4,617,300	4,483,500	4,468,100	4,089,900	4,704,400	4,640,900	4,483,500
Number of employees (full-time equivalent)		3,546	3,526	3,624	3,718	3,873	3,809	3,804	3,851	3,850	3,546	3,873	3,718	3,851
After-tax effect of amortization of other intangibles		2	2	3	2	2	3	2	1	2	7	7	9	9

¹ See 'Glossary' beginning on page 36 for explanation of composition of this measure.

CAPITAL MARKETS (Millions of Canadian dollars, except percentage amounts)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Income Statement													
Net interest income (teb)	1,136	1,181	1,241	1,111	1,122	1,121	1,199	1,183	1,335	3,558	3,442	4,553	5,135
Non-interest income (teb)	513	1,167	1,569	1,187	1,341	1,597	1,509	1,092	1,413	3,249	4,447	5,634	4,749
Total revenue (teb)	1,649	2,348	2,810	2,298	2,463	2,718	2,708	2,275	2,748	6,807	7,889	10,187	9,884
PCL on performing assets ¹	19	(66)	(6)	(11)	(326)	(98)	(41)	(3)	12	(53)	(465)	(476)	750
PCL on impaired assets ¹	(13)	29	(6)	(11)	(11)	(29)	18	68	66	10	(22)	(33)	489
Total PCL	6	(37)	(12)	(22)	(337)	(127)	(23)	65	78	(43)	(487)	(509)	1,239
Non-interest expense	1,123	1,350	1,472	1,155	1,363	1,468	1,441	1,165	1,471	3,945	4,272	5,427	5,362
Income taxes	41	240	320	245	308	306	223	205	250	601	837	1,082	507
Net income	479	795	1,030	920	1,129	1,071	1,067	840	949	2,304	3,267	4,187	2,776
Total revenue by business													
Corporate and Investment Banking	625	1,123	1,393	1,225	1,289	1,197	1,112	1,088	1,080	3,141	3,598	4,823	4,031
Global Markets	1,142	1,350	1,498	1,122	1,232	1,562	1,626	1,333	1,774	3,990	4,420	5,542	6,251
Other	(118)	(125)	(81)	(49)	(58)	(41)	(30)	(146)	(106)	(324)	(129)	(178)	(398)
Total	1,649	2,348	2,810	2,298	2,463	2,718	2,708	2,275	2,748	6,807	7,889	10,187	9,884
Financial ratios													
ROE ²	7.1%	12.8%	16.4%	16.1%	19.7%	18.9%	18.5%	14.4%	15.7%	12.0%	19.0%	18.3%	11.7%
Total compensation to revenue ³	37.5%	36.8%	36.1%	29.7%	36.3%	37.2%	37.2%	29.5%	36.2%	36.7%	36.9%	35.3%	34.8%
Average balances													
Total assets	812,700	794,600	806,600	717,000	685,600	694,600	743,100	709,000	777,400	804,700	707,900	710,200	755,400
Trading securities	128,400	137,300	139,600	125,300	120,100	120,900	125,200	106,700	102,700	135,100	122,100	122,900	108,300
Loans and acceptances, net	126,000	118,800	111,100	106,100	98,200	97,300	98,300	101,500	116,400	118,600	97,900	100,000	108,700
Deposits	75,700	83,200	75,900	73,700	74,100	72,600	73,600	74,400	77,200	78,200	73,500	73,500	76,800
Attributed capital ²	25,850	25,000	24,550	22,300	22,400	22,850	22,600	22,700	23,650	25,150	22,600	22,550	23,150
Risk capital ²	24,000	23,150	22,750	20,550	20,650	21,100	20,800	20,900	21,850	23,300	20,850	20,750	21,350
Credit quality													
GIL / Related loans and acceptances ²	0.38%	0.37%	0.37%	0.45%	0.58%	0.73%	0.84%	1.22%	1.51%	0.38%	0.58%	0.45%	1.22%
PCL on performing loans (Stage 1 and 2) / Average net loans and acceptances	0.06%	(0.19)%	(0.02)%	(0.03)%	(1.14)%	(0.36)%	(0.15)%	(0.15)%	0.02%	(0.04)%	(0.55)%	(0.41)%	0.61%
PCL on impaired loans (Stage 3) / Average net loans and acceptances	(0.04)%	0.09%	(0.04)%	(0.04)%	(0.07)%	(0.13)%	0.07%	0.27%	0.25%	0.00%	(0.04)%	(0.04)%	0.44%
Net write-offs ² / Average net loans and acceptances	0.08%	0.04%	0.03%	0.07%	0.02%	0.12%	0.29%	0.39%	0.29%	0.05%	0.14%	0.12%	0.23%
Business information													
AUA	17,400	17,400	17,200	16,400	16,100	14,900	15,000	14,900	14,600	17,400	16,100	16,400	14,900
Number of employees (full-time equivalent)	7,187	6,520	6,480	6,414	6,649	6,142	6,228	6,258	6,555	7,187	6,649	6,414	6,258

¹ PCL on performing assets represents Stage 1 and 2 PCL on all performing assets, except those classified or designated as FVTPL and equity securities designated as FVOCI. PCL on impaired assets represents Stage 3 PCL. Stage 3 PCL is comprised of lifetime credit losses of all credit-impaired financial assets, except those classified or designated as FVTPL and equity securities designated as FVOCI.

² See 'Glossary' beginning on page 36 for explanation of composition of this measure.

³ Total compensation to revenue ratio is calculated as total human resources non-interest expense / total revenue (teb) for Front Office personnel and for functional support teams (Technology, Operations, and Functions). Total human resources non-interest expense includes salary, benefits, stock based compensation, severance, retention costs, and variable compensation.

CORPORATE SUPPORT (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Income Statement													
Net interest income (teb)	(49)	(69)	(107)	(49)	(85)	(105)	(82)	(81)	(63)	(225)	(272)	(321)	(57)
Non-interest income (teb)	(98)	(34)	50	(12)	32	14	(7)	(22)	27	(82)	39	27	(269)
U.S. wealth accumulation plans gains/(losses) ¹	(22)	(154)	(89)	41	51	134	168	7	156	(265)	353	394	90
Total revenue (teb)	(169)	(257)	(146)	(20)	(2)	43	79	(96)	120	(572)	120	100	(236)
PCL	-	1	-	-	-	-	(1)	-	-	1	(1)	(1)	1
Non-interest expense	17	4	9	17	10	(14)	10	(7)	35	30	6	23	57
U.S. wealth accumulation plans (gains)/losses ¹	(15)	(122)	(71)	42	59	124	157	8	135	(208)	340	382	89
Income taxes	(119)	(287)	(65)	(84)	(59)	(113)	(109)	(110)	(96)	(471)	(281)	(365)	(436)
Net income (loss)	(52)	147	(19)	5	(12)	46	22	13	46	76	56	61	53
Additional information													
teb adjustment	(143)	(145)	(142)	(125)	(130)	(135)	(128)	(127)	(126)	(430)	(393)	(518)	(513)
After-tax effect of amortization of other intangibles	3	-	-	1	1	(1)	1	1	(2)	3	1	2	-
Average balances													
Total assets	57,300	50,800	51,500	48,700	49,800	48,100	44,900	42,000	42,300	53,300	47,600	47,900	42,600
Attributed capital	18,250	18,400	18,850	20,900	17,300	14,550	13,150	11,400	10,550	18,500	14,950	16,450	10,900

¹ Gains (losses) on economic hedges of our U.S. Wealth Management (including City National) share-based compensation plans are included in revenue and related variability driven by changes in the fair value of liabilities relating to these plans is included in share-based compensation expense.

BALANCE SHEETS (Millions of Canadian dollars)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2021	2020
Period-end balances												
ASSETS												
Cash and due from banks		89,110	115,929	131,163	113,846	115,407	114,307	149,588	118,888	119,181	113,846	118,888
Interest-bearing deposits with banks		98,145	68,829	63,420	79,638	80,389	63,438	33,731	39,013	40,640	79,638	39,013
Securities												
Trading		141,986	143,766	149,525	139,240	133,894	125,733	148,023	136,071	145,533	139,240	136,071
Investment, net of applicable allowance		156,809	154,549	153,570	145,484	138,056	129,419	139,459	139,743	144,980	145,484	139,743
		298,795	298,315	303,095	284,724	271,950	255,152	287,482	275,814	290,513	284,724	275,814
Assets purchased under reverse repurchase agreements and securities borrowed		318,565	316,698	312,126	307,903	319,896	308,031	311,033	313,015	308,215	307,903	313,015
Loans												
Retail		538,389	525,183	513,970	503,598	491,890	476,230	464,579	457,976	443,845	503,598	457,976
Wholesale		261,592	252,847	230,108	218,066	210,739	202,427	213,462	208,655	217,605	218,066	208,655
		799,981	778,030	744,078	721,664	702,629	678,657	678,041	666,631	661,450	721,664	666,631
Allowance for loan losses		(3,667)	(3,566)	(4,047)	(4,089)	(4,588)	(5,146)	(5,478)	(5,639)	(5,509)	(4,089)	(5,509)
		796,314	774,464	740,031	717,575	698,041	673,511	672,563	660,992	655,941	717,575	660,992
Segregated fund net assets		2,690	2,659	2,730	2,666	2,526	2,338	2,127	1,922	1,908	2,666	1,922
Other												
Customers' liability under acceptances		17,360	16,529	18,876	19,798	19,325	18,817	18,756	18,507	18,239	19,798	18,507
Derivatives		122,058	156,204	92,319	95,541	102,033	97,236	110,917	113,488	157,378	95,541	113,488
Premises and equipment		7,142	7,225	7,406	7,424	7,576	7,601	7,835	7,934	8,175	7,424	7,934
Goodwill		10,933	10,981	11,010	10,854	10,925	10,816	11,085	11,302	11,356	10,854	11,302
Other intangibles		4,383	4,416	4,459	4,471	4,490	4,497	4,633	4,752	4,640	4,471	4,752
Other assets		76,597	76,323	65,834	61,883	60,982	59,572	61,401	58,921	66,948	61,883	58,921
Total Assets		1,842,092	1,848,572	1,752,469	1,706,323	1,693,540	1,615,316	1,671,151	1,624,548	1,683,134	1,706,323	1,624,548
LIABILITIES AND EQUITY												
Deposits												
Personal		392,267	382,881	375,606	362,488	358,500	348,114	348,304	343,052	337,196	362,488	343,052
Business and government		739,467	724,978	720,089	696,353	680,413	644,283	660,064	624,311	640,284	696,353	624,311
Bank		46,870	43,738	47,147	41,990	45,965	40,926	46,229	44,522	39,678	41,990	44,522
		1,178,604	1,151,597	1,142,842	1,100,831	1,084,878	1,033,323	1,054,597	1,011,885	1,017,158	1,100,831	1,011,885
Segregated fund net liabilities		2,690	2,659	2,730	2,666	2,526	2,338	2,127	1,922	1,908	2,666	1,922
Other												
Acceptances		17,390	16,570	18,959	19,873	19,392	18,942	18,881	18,618	18,348	19,873	18,618
Obligations related to securities sold short		38,504	39,464	41,544	37,841	34,760	31,817	32,569	29,285	36,841	37,841	29,285
Obligations related to assets sold under repurchase agreements and securities loaned		281,149	279,338	265,009	262,201	271,165	257,049	274,907	274,231	273,768	262,201	274,231
Derivatives		119,868	151,541	88,102	91,439	97,150	92,402	106,071	109,927	155,479	91,439	109,927
Insurance claims and policy benefit liabilities		12,033	12,073	12,973	12,816	12,496	12,109	12,754	12,215	12,421	12,816	12,215
Other liabilities		77,745	80,649	67,741	70,301	65,813	65,500	69,810	69,831	70,938	70,301	69,831
Subordinated debentures		10,111	10,276	10,561	9,593	9,050	9,014	9,186	9,867	9,899	9,593	9,867
		1,738,094	1,744,167	1,650,461	1,607,561	1,597,230	1,522,494	1,580,902	1,537,781	1,596,760	1,607,561	1,537,781
Equity attributable to shareholders												
Preferred shares and other equity instruments		7,328	7,298	7,441	6,684	7,416	7,191	7,215	5,945	7,447	6,684	5,945
Common shares		17,092	17,314	17,572	17,655	17,656	17,698	17,638	17,499	17,481	17,655	17,499
Retained earnings		76,466	75,931	73,542	71,795	68,951	66,163	62,751	59,806	57,805	71,795	59,806
Other components of equity		3,012	3,761	3,355	2,533	2,196	1,683	2,545	3,414	3,535	2,533	3,414
		103,898	104,304	101,910	98,667	96,219	92,735	90,149	86,664	86,268	98,667	86,664
Non-controlling interests (NCI)		100	101	98	95	91	87	100	103	106	95	103
		103,998	104,405	102,008	98,762	96,310	92,822	90,249	86,767	86,374	98,762	86,767
Total Liabilities and Equity		1,842,092	1,848,572	1,752,469	1,706,323	1,693,540	1,615,316	1,671,151	1,624,548	1,683,134	1,706,323	1,624,548

SELECTED AVERAGE BALANCE SHEET ITEMS ¹ (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Securities, net of applicable allowance	292,200	302,100	303,500	279,500	263,100	270,400	286,000	275,800	283,800	299,200	273,200	274,800	273,200
Assets purchased under reverse repurchase agreements and securities borrowed	352,800	346,200	379,000	322,800	305,400	319,500	324,400	322,100	360,600	359,500	316,400	318,000	363,400
Total loans, net ²	785,100	754,500	731,800	709,000	683,700	669,600	665,400	656,800	661,900	757,200	673,000	682,000	649,900
Retail ²	532,400	518,600	510,700	498,100	484,100	471,700	462,800	450,300	438,900	520,600	472,900	479,200	438,300
Wholesale ²	256,300	240,000	225,200	215,400	204,700	203,300	208,200	212,000	228,300	240,500	205,400	208,000	215,800
Customers' liability under acceptances	16,900	18,200	20,300	19,600	19,500	19,300	19,200	18,400	19,000	18,500	19,300	19,400	18,500
Average earning assets, net	1,534,600	1,487,800	1,503,100	1,399,400	1,331,100	1,325,900	1,333,600	1,310,000	1,371,600	1,508,700	1,330,300	1,347,700	1,342,500
Derivatives	152,400	133,300	115,800	103,500	104,400	102,000	139,900	122,100	138,300	133,800	115,500	112,500	127,700
Total assets	1,876,300	1,834,400	1,843,400	1,711,500	1,647,600	1,658,900	1,694,100	1,639,800	1,707,100	1,851,600	1,667,000	1,678,200	1,636,700
Deposits	1,163,400	1,150,200	1,141,900	1,098,700	1,056,500	1,047,100	1,033,500	1,010,000	1,009,700	1,151,800	1,045,700	1,059,100	970,600
Common equity	95,750	93,300	92,450	89,500	85,800	83,450	80,750	78,800	79,350	93,850	83,300	84,850	78,800
Total equity	103,200	100,700	100,000	96,500	93,100	90,700	88,000	85,900	85,200	101,300	90,600	92,100	84,900

ASSETS UNDER ADMINISTRATION AND MANAGEMENT ³ (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Assets under administration													
Institutional	4,207,100	4,562,000	4,827,000	4,749,000	4,809,900	4,634,000	4,732,700	4,599,100	4,584,400	4,207,100	4,809,900	4,749,000	4,599,100
Personal	1,347,600	1,356,400	1,405,900	1,385,700	1,351,400	1,279,800	1,214,500	1,120,000	1,115,600	1,347,600	1,351,400	1,385,700	1,120,000
Retail mutual funds	194,200	200,500	213,000	212,600	208,100	197,200	186,400	172,100	172,900	194,200	208,100	212,600	172,100
Total AUA	5,748,900	6,118,900	6,445,900	6,347,300	6,369,400	6,111,000	6,133,600	5,891,200	5,872,900	5,748,900	6,369,400	6,347,300	5,891,200
Assets under management													
Institutional	256,600	265,200	293,100	291,800	289,300	277,400	282,300	275,200	278,200	256,600	289,300	291,800	275,200
Personal	407,300	408,400	426,400	415,500	400,100	374,000	351,600	324,200	319,800	407,300	400,100	415,500	324,200
Retail mutual funds	273,800	284,600	302,000	301,400	294,100	278,400	263,500	244,200	243,200	273,800	294,100	301,400	244,200
Total AUM	937,700	958,200	1,021,500	1,008,700	983,500	929,800	897,400	843,600	841,200	937,700	983,500	1,008,700	843,600

¹ Calculated using methods intended to approximate the average of the daily balances for the period, as applicable.

² Average total loans are reported net of allowance for loan losses. Average retail and wholesale balances are reported on a gross basis (before deducting allowance for loan losses).

³ To be read in conjunction with the Segment pages.

STATEMENTS OF COMPREHENSIVE INCOME (Millions of Canadian dollars)													
	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Net income	3,577	4,253	4,095	3,892	4,296	4,015	3,847	3,246	3,201	11,925	12,158	16,050	11,437
Other comprehensive income (loss), net of taxes													
Items that will be reclassified subsequently to income:													
Net change in unrealized gains (losses) on debt securities and loans at fair value through other comprehensive income													
Net unrealized gains (losses) on debt securities and loans at FVOCI	(247)	(892)	(253)	(183)	70	(79)	369	33	749	(1,392)	360	177	(24)
PCL recognized in profit or loss	(2)	(4)	(7)	(1)	(21)	15	(2)	(9)	(1)	(13)	(8)	(9)	13
Reclassification of net losses (gains) on debt securities and loans at FVOCI to income	(5)	(18)	(11)	(11)	(4)	(66)	(36)	(40)	(48)	(34)	(106)	(117)	(161)
	(254)	(914)	(271)	(195)	45	(130)	331	(16)	700	(1,439)	246	51	(172)
Foreign currency translation adjustments													
Unrealized foreign currency translation gains (losses)	(459)	198	1,474	(613)	931	(2,466)	(2,168)	(426)	(2,112)	1,213	(3,703)	(4,316)	810
Net foreign currency translation gains (losses) from hedging activities	213	137	(507)	280	(367)	1,035	792	191	716	(157)	1,460	1,740	(397)
Reclassification of losses (gains) on foreign currency translation to income	-	-	(18)	(2)	2	(7)	-	-	(21)	(18)	(5)	(7)	(21)
Reclassification of losses (gains) on net investment hedging activities to income	-	-	17	-	(1)	-	-	-	21	17	(1)	(1)	21
	(246)	335	966	(335)	565	(1,438)	(1,376)	(235)	(1,396)	1,055	(2,249)	(2,584)	413
Net change in cash flow hedges													
Net gains (losses) on derivatives designated as cash flow hedges	(296)	869	98	767	(190)	669	127	44	88	671	606	1,373	(1,145)
Reclassification of losses (gains) on derivatives designated as cash flow through profit or loss	46	117	31	99	95	33	45	85	(113)	194	173	272	72
	(250)	986	129	866	(95)	702	172	129	(25)	865	779	1,645	(1,073)
Items that will not be reclassified subsequently to income:													
Remeasurements of employee benefit plans	(319)	765	283	456	76	938	781	498	(554)	729	1,795	2,251	(68)
Net fair value change due to credit risk on financial liabilities designated as at FVTPL	324	853	180	67	24	88	(124)	(152)	(664)	1,357	(12)	55	(263)
Net gains (losses) on equity securities designated at FVOCI	10	4	39	40	(1)	(5)	4	4	3	53	(2)	38	28
	15	1,622	502	563	99	1,021	661	350	(1,215)	2,139	1,781	2,344	(303)
Total other comprehensive income (loss), net of taxes	(735)	2,029	1,326	899	614	155	(212)	228	(1,936)	2,620	557	1,456	(1,135)
Total comprehensive income (loss)	2,842	6,282	5,421	4,791	4,910	4,170	3,635	3,474	1,265	14,545	12,715	17,506	10,302
Total comprehensive income (loss) attributable to:													
Shareholders	2,841	6,278	5,417	4,787	4,904	4,173	3,637	3,476	1,264	14,536	12,714	17,501	10,295
NCI	1	4	4	4	6	(3)	(2)	(2)	1	9	1	5	7
	2,842	6,282	5,421	4,791	4,910	4,170	3,635	3,474	1,265	14,545	12,715	17,506	10,302

STATEMENTS OF CHANGES IN EQUITY (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Preferred shares and other equity instruments													
Balance at beginning of period	7,323	7,473	6,723	7,473	7,198	7,198	5,948	7,448	5,698	6,723	5,948	5,948	5,706
Issued	-	-	750	-	1,000	-	1,250	-	1,750	750	2,250	2,250	1,750
Redeemed	-	(150)	-	(750)	(725)	-	-	(1,500)	-	(150)	(725)	(1,475)	(1,508)
Balance at end of period	7,323	7,323	7,473	6,723	7,473	7,198	7,198	5,948	7,448	7,323	7,473	6,723	5,948
Common shares													
Balance at beginning of period	17,488	17,651	17,728	17,713	17,689	17,664	17,628	17,610	17,592	17,728	17,628	17,628	17,645
Issued	8	8	34	15	24	25	36	18	18	50	85	100	80
Purchased for cancellation	(129)	(171)	(111)	-	-	-	-	-	-	(411)	-	-	(97)
Balance at end of period	17,367	17,488	17,651	17,728	17,713	17,689	17,664	17,628	17,610	17,367	17,713	17,728	17,628
Treasury - preferred shares and other equity instruments													
Balance at beginning of period	(25)	(32)	(39)	(57)	(7)	17	(3)	(1)	1	(39)	(3)	(3)	1
Sales	194	152	156	205	243	153	46	22	25	502	442	647	110
Purchases	(164)	(145)	(149)	(187)	(293)	(177)	(26)	(24)	(27)	(458)	(496)	(683)	(114)
Balance at end of period	5	(25)	(32)	(39)	(57)	(7)	17	(3)	(1)	5	(57)	(39)	(3)
Treasury - common shares													
Balance at beginning of period	(174)	(79)	(73)	(57)	9	(26)	(129)	(129)	(75)	(73)	(129)	(129)	(58)
Sales	1,181	1,191	1,516	994	1,180	1,039	903	658	839	3,888	3,122	4,116	4,668
Purchases	(1,282)	(1,286)	(1,522)	(1,010)	(1,246)	(1,004)	(800)	(658)	(893)	(4,090)	(3,050)	(4,060)	(4,739)
Balance at end of period	(275)	(174)	(79)	(73)	(57)	9	(26)	(129)	(129)	(275)	(57)	(73)	(129)
Retained earnings													
Balance at beginning of period	75,931	73,542	71,795	68,951	66,163	62,751	59,806	57,805	57,466	71,795	59,806	59,806	55,981
Transition adjustment for IFRS 16 ¹	-	-	-	-	-	-	-	-	-	-	-	-	(107)
Net income attributable to shareholders	3,575	4,250	4,093	3,887	4,292	4,014	3,845	3,247	3,197	11,918	12,151	16,038	11,432
Other comprehensive income	15	1,622	502	563	99	1,021	661	350	(1,215)	2,139	1,781	2,344	(303)
Dividends on preferred shares and distributions on other equity instruments	(58)	(68)	(54)	(68)	(55)	(76)	(58)	(74)	(65)	(180)	(189)	(257)	(268)
Common share dividends	(1,784)	(1,686)	(1,702)	(1,540)	(1,539)	(1,540)	(1,539)	(1,539)	(1,538)	(5,172)	(4,618)	(6,158)	(6,111)
Premium paid on common shares purchased for cancellation	(1,209)	(1,721)	(1,103)	-	-	-	-	-	-	(4,033)	-	-	(717)
Premium paid on preferred shares redeemed	-	(5)	-	-	-	-	-	-	-	(5)	-	-	-
Share-based compensation awards	-	-	2	(2)	-	(2)	(2)	(2)	(1)	2	(4)	(6)	(3)
Issuance costs	-	-	(1)	-	(2)	-	(3)	(1)	(4)	(1)	(5)	(5)	(5)
Other	(4)	(3)	10	4	(7)	(5)	41	20	(35)	3	29	33	(93)
Balance at end of period	76,466	75,931	73,542	71,795	68,951	66,163	62,751	59,806	57,805	76,466	68,951	71,795	59,806
Other components of equity													
Unrealized gains and losses on securities and loans at FVOCI	(1,527)	(1,273)	(359)	(88)	107	62	192	(139)	(123)	(1,527)	107	(88)	(139)
Unrealized foreign currency translation gains and losses, net of hedging activities	3,108	3,353	3,019	2,055	2,389	1,826	3,260	4,632	4,866	3,108	2,389	2,055	4,632
Gains and losses on derivatives designated as cash flow hedges	1,431	1,681	695	566	(300)	(205)	(907)	(1,079)	(1,208)	1,431	(300)	566	(1,079)
Balance at end of period	3,012	3,761	3,355	2,533	2,196	1,683	2,545	3,414	3,535	3,012	2,196	2,533	3,414
Total retained earnings and other components of equity	79,478	79,692	76,897	74,328	71,147	67,846	65,296	63,220	61,340	79,478	71,147	74,328	63,220
	103,898	104,304	101,910	98,667	96,219	92,735	90,149	86,664	86,268	103,898	96,219	98,667	86,664
Non-controlling interests													
Balance at beginning of period	101	98	95	91	87	100	103	106	105	95	103	103	102
Dividends	(2)	(1)	(1)	-	(1)	(1)	(1)	(2)	-	(4)	(3)	(3)	(6)
Net income attributable to NCI	2	3	2	5	4	1	2	(1)	4	7	7	12	5
Foreign currency translation adjustments	(1)	1	2	(1)	2	(4)	(4)	(1)	(3)	2	(6)	(7)	2
Other	-	-	-	-	(1)	(9)	-	1	-	-	(10)	(10)	-
Balance at end of period	100	101	98	95	91	87	100	103	106	100	91	95	103
Total equity	103,998	104,405	102,008	98,762	96,310	92,822	90,249	86,767	86,374	103,998	96,310	98,762	86,767

¹ For further details, refer to our 2020 Annual Report.

FLOW STATEMENT OF THE MOVEMENTS IN REGULATORY CAPITAL ¹

(Millions of Canadian dollars)

Common Tier 1 (CET1) capital

Opening amount

New capital issues	
Redeemed capital	
Gross dividends and distribution on other equity instruments, net of tax	
Shares issued in lieu of dividends (add back)	
Profit for the year (attributable to shareholders of parent company)	
Removal of own credit spread (net of tax)	
Movement in other comprehensive income	
Currency translation differences (unrealized foreign currency translation gains/(losses), net of hedging activities)	
Investments (unrealized gains (losses) on Investment securities)	
Other	
Goodwill and other intangible assets (deduction, net of related tax liability)	
Other, including regulatory adjustments and transitional arrangements	
Deferred tax assets that rely on future profitability (excluding those arising from temporary differences)	
Defined benefit pension fund assets (net of related tax liability)	
Investment in common equity of deconsolidated subsidiaries & other significant investments	
Prudential valuation adjustments	
Other ²	

Closing amount

Other 'non-core' Tier 1 (Additional Tier 1) capital

Opening amount

New non-core Tier 1 (additional Tier 1) eligible capital issues	
Redeemed capital	
Other, including regulatory adjustments and transitional arrangements ³	

Closing amount

Total Tier 1 capital

Tier 2 capital

Opening amount

New Tier 2 eligible capital issues	
Redeemed capital	
Amortization adjustments	
Other, including regulatory adjustments and transitional arrangements ⁴	

Closing amount

Total regulatory capital

Q3/22	Q2/22	Q1/22	Q4/21	Q3/21
77,069	77,080	75,583	73,822	70,970
8	8	34	15	24
(129)	(171)	(111)	-	-
(1,842)	(1,754)	(1,756)	(1,608)	(1,594)
-	-	-	-	-
3,575	4,250	4,093	3,887	4,292
(362)	(1,042)	(224)	(83)	(33)
(749)	406	822	337	513
(245)	334	964	(334)	563
(254)	(914)	(271)	(195)	45
(250)	986	129	866	(95)
60	102	(144)	70	(102)
(723)	(1,810)	(1,217)	(857)	(248)
(4)	-	(5)	(49)	(4)
302	(530)	(261)	(353)	(108)
-	-	-	-	-
-	-	-	-	-
(1,021)	(1,280)	(951)	(455)	(136)
76,907	77,069	77,080	75,583	73,822
7,276	7,413	6,663	7,396	7,169
-	-	750	-	1,000
-	(150)	-	(750)	(725)
24	13	-	17	(48)
7,300	7,276	7,413	6,663	7,396
84,207	84,345	84,493	82,246	81,218
9,526	10,009	9,780	9,518	9,497
-	-	1,000	1,750	-
-	-	-	(1,000)	-
3	(9)	(391)	3	(6)
121	(474)	(380)	(491)	27
9,650	9,526	10,009	9,780	9,518
93,857	93,871	94,502	92,026	90,736

¹ Reflects required EDTF format.

² Includes changes in shortfall in allowance, treasury shares, issue costs and other, share-based compensation awards, threshold deduction allocated to loss carry back, derecognition of cash flow hedge reserves, transitional adjustment, premium paid on common shares purchased for cancellation and common equity issued by consolidated subsidiaries to third parties.

³ Includes changes to capital issued by consolidated bank subsidiaries to third parties and non-qualifying capital instruments.

⁴ Includes changes to non-qualifying capital issued by consolidated bank subsidiaries to third parties, non-qualifying capital instruments, regulatory adjustments for TLAC-eligible instruments and eligible collective allowance.

TOTAL CAPITAL RISK-WEIGHTED ASSETS BY BUSINESS SEGMENTS (ALL-IN BASIS) (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21
Personal and Commercial Banking							
Canadian Banking	194,753	189,970	188,142	186,524	185,328	192,454	189,533
Caribbean & U.S. Banking	10,674	11,076	10,730	11,837	11,365	11,179	11,998
Wealth Management	113,733	112,160	107,961	100,751	97,172	92,699	93,681
Insurance	14,022	14,438	14,097	13,772	12,963	12,843	12,622
Investor & Treasury Services	24,802	25,329	24,303	21,708	23,132	25,313	26,899
Capital Markets	218,561	221,688	214,518	205,951	201,232	209,178	211,681
Corporate Support	12,505	11,178	9,534	11,998	11,855	11,941	11,105
Total capital RWA	589,050	585,839	569,285	552,541	543,047	555,607	557,519

MOVEMENT OF TOTAL CAPITAL RISK-WEIGHTED ASSETS (RWA) BY RISK TYPE (ALL-IN BASIS) (Millions of Canadian dollars)	Q3/22			Q2/22			Q1/22			Q4/21		
	Non-counterparty credit risk	Counterparty credit risk	Total	Non-counterparty credit risk	Counterparty credit risk	Total	Non-counterparty credit risk	Counterparty credit risk	Total	Non-counterparty credit risk	Counterparty credit risk	Total
Credit risk RWA												
Opening balance of credit risk RWA	419,124	53,392	472,516	404,116	48,581	452,697	390,350	53,792	444,142	384,396	51,674	436,070
Portfolio size ¹	13,558	(3,283)	10,275	14,419	4,155	18,574	11,949	(5,829)	6,120	10,006	2,784	12,790
Portfolio credit quality ²	(1,285)	(460)	(1,745)	(1,119)	(329)	(1,448)	(1,625)	(234)	(1,859)	(2,043)	(17)	(2,060)
Model updates ³	-	-	-	1,212	1,272	2,484	-	-	-	(445)	-	(445)
Methodology and policy ⁴	-	-	-	-	-	-	-	-	-	-	-	-
Acquisitions and dispositions	-	-	-	-	-	-	-	-	-	-	-	-
Foreign exchange movements	(1,315)	(415)	(1,730)	938	(182)	756	3,723	852	4,575	(1,641)	(505)	(2,146)
Other	(630)	-	(630)	(442)	(105)	(547)	(281)	-	(281)	77	(144)	(67)
Closing balance of credit risk RWA	429,452	49,234	478,686	419,124	53,392	472,516	404,116	48,581	452,697	390,350	53,792	444,142
Market risk RWA												
Opening balance of market risk RWA	n.a.	n.a.	37,851	n.a.	n.a.	41,812	n.a.	n.a.	34,806	n.a.	n.a.	34,149
Movement in risk levels ⁵	n.a.	n.a.	(354)	n.a.	n.a.	1,764	n.a.	n.a.	6,045	n.a.	n.a.	1,015
Model updates ³	n.a.	n.a.	(2,870)	n.a.	n.a.	(5,959)	n.a.	n.a.	494	n.a.	n.a.	(309)
Methodology and policy ⁴	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-
Acquisitions and dispositions	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-
Foreign exchange movements	n.a.	n.a.	(76)	n.a.	n.a.	234	n.a.	n.a.	467	n.a.	n.a.	(49)
Other	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-
Closing balance of market risk RWA	n.a.	n.a.	34,551	n.a.	n.a.	37,851	n.a.	n.a.	41,812	n.a.	n.a.	34,806
Operational risk RWA												
Opening balance of operational risk RWA	n.a.	n.a.	75,472	n.a.	n.a.	74,776	n.a.	n.a.	73,593	n.a.	n.a.	72,828
Revenue generation	n.a.	n.a.	341	n.a.	n.a.	696	n.a.	n.a.	1,183	n.a.	n.a.	765
Closing balance of operational risk RWA	n.a.	n.a.	75,813	n.a.	n.a.	75,472	n.a.	n.a.	74,776	n.a.	n.a.	73,593
Regulatory floor adjustment	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-	n.a.	n.a.	-
Total capital RWA	429,452	49,234	589,050	419,124	53,392	585,839	404,116	48,581	569,285	390,350	53,792	552,541

¹ Organic changes in portfolio size and composition (including new business and maturing loans).

² Quality of book changes caused by experience such as underlying customer behaviour or demographics and credit migration.

³ Updates to the model to reflect recent market volatility, model implementation, change in model scope or any change to address model malfunctions including changes through model calibrations/realignments.

⁴ Methodology changes to the calculations driven by regulatory policy changes.

⁵ Change in risk due to position changes and market movements.

LOANS AND ACCEPTANCES (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2021	2020
By portfolio and sector											
Retail											
Residential mortgages	410,184	398,370	390,101	380,332	370,710	358,003	351,932	342,597	330,340	380,332	342,597
HELOC	37,887	37,327	36,784	36,771	36,590	36,764	37,384	38,699	38,772	36,771	38,699
Other personal	58,416	58,741	57,843	56,670	55,594	53,755	53,112	53,312	51,370	56,670	53,312
Total personal	96,303	96,068	94,627	93,441	92,184	90,519	90,496	92,011	90,142	93,441	92,011
Credit cards	19,499	18,668	17,332	17,822	17,353	16,596	16,379	17,626	17,675	17,822	17,626
Small business ¹	12,403	12,077	11,910	12,003	11,643	11,112	5,772	5,742	5,688	12,003	5,742
	538,389	525,183	513,970	503,598	491,890	476,230	464,579	457,976	443,845	503,598	457,976
Wholesale ^{1,2}											
Agriculture	9,960	9,916	9,517	9,250	9,007	8,931	9,862	9,418	9,395	9,250	9,418
Automotive	8,252	8,001	7,296	6,198	6,428	6,795	7,146	8,361	10,432	6,198	8,361
Banking	7,113	8,173	7,524	7,734	8,398	7,912	8,775	8,189	8,122	7,734	8,189
Consumer discretionary	18,567	17,372	15,815	14,806	14,414	13,861	14,858	15,093	16,481	14,806	15,093
Consumer staples	6,379	5,983	6,037	6,142	4,864	4,717	5,294	6,021	5,529	6,142	6,021
Oil and gas	5,162	5,587	5,359	5,283	5,960	6,420	7,371	7,552	8,484	5,283	7,552
Financial services	39,417	37,405	31,950	29,192	25,094	24,393	24,592	22,153	20,984	29,192	22,153
Financing products	12,928	13,552	9,895	10,273	6,950	5,435	7,306	5,827	6,424	10,273	5,827
Forest products	1,118	1,040	1,080	931	976	943	1,101	1,120	1,295	931	1,120
Governments	5,418	5,810	6,278	6,677	7,677	10,986	10,993	10,409	10,849	6,677	10,409
Industrial products	10,521	9,706	9,048	7,193	7,052	7,157	6,869	6,825	8,249	7,193	6,825
Information technology	4,754	4,392	3,511	3,569	5,090	3,495	3,746	4,591	5,623	3,569	4,591
Investments	20,491	20,035	19,360	19,392	18,830	16,869	15,721	15,232	15,143	19,392	15,232
Mining and metals	1,613	1,494	1,093	984	1,094	993	996	1,044	1,883	984	1,044
Public works and infrastructure	2,631	1,996	1,930	1,890	1,837	1,747	1,842	1,868	2,090	1,890	1,868
Real estate and related ³	76,742	72,819	68,770	66,798	64,416	60,988	62,455	61,047	59,740	66,798	61,047
Other services	23,366	23,616	22,062	20,550	21,644	19,570	20,750	21,138	21,278	20,550	21,138
Telecommunication and Media	6,658	6,570	6,596	5,047	5,339	5,142	4,999	4,851	4,999	5,047	4,851
Transportation	6,573	6,069	6,220	6,251	6,183	6,213	7,485	7,662	8,186	6,251	7,662
Utilities	10,427	8,779	8,348	8,699	7,775	7,674	8,331	8,241	9,801	8,699	8,241
Other	892	1,102	1,378	1,080	1,103	1,123	1,847	627	961	1,080	627
	278,982	269,417	249,067	237,939	230,131	221,364	232,339	227,269	235,948	237,939	227,269
Total loans and acceptances	817,371	794,600	763,037	741,537	722,021	697,594	696,918	685,245	679,793	741,537	685,245
ACL - Loans and acceptances	(3,697)	(3,607)	(4,130)	(4,164)	(4,655)	(5,266)	(5,599)	(5,746)	(5,613)	(4,164)	(5,746)
Total loans and acceptances, net of allowance	813,674	790,993	758,907	737,373	717,366	692,328	691,319	679,499	674,180	737,373	679,499
Loans and acceptances by geography ⁴ and portfolio											
Canada											
Residential mortgages	378,279	368,283	361,981	354,169	345,964	334,980	328,994	319,287	307,589	354,169	319,287
HELOC	36,312	35,846	35,326	35,324	35,097	35,293	35,785	37,035	37,073	35,324	37,035
Personal	42,808	43,014	42,857	42,908	42,514	42,257	42,118	42,743	41,547	42,908	42,743
Total personal	79,120	78,860	78,183	78,232	77,611	77,550	77,903	79,778	78,620	78,232	79,778
Credit cards	18,822	17,960	16,673	17,235	16,805	16,063	15,833	17,060	17,127	17,235	17,060
Small business ¹	12,403	12,077	11,910	12,003	11,643	11,112	5,772	5,742	5,688	12,003	5,742
Retail	488,624	477,180	468,747	461,639	452,023	439,705	428,502	421,867	409,024	461,639	421,867
Wholesale ^{1,2}	123,853	116,474	112,043	107,750	105,445	102,458	108,923	106,283	108,006	107,750	106,283
United States											
Retail	43,293	41,481	38,691	35,601	33,599	30,474	29,892	29,721	28,405	35,601	29,721
Wholesale ²	106,224	104,266	93,984	86,041	84,782	83,084	85,656	85,947	89,324	86,041	85,947
	149,517	145,747	132,675	121,642	118,381	113,558	115,548	115,668	117,729	121,642	115,668
Other International											
Retail	6,472	6,522	6,532	6,358	6,268	6,051	6,185	6,388	6,416	6,358	6,388
Wholesale ²	48,905	48,677	43,040	44,148	39,904	35,822	37,760	35,039	38,618	44,148	35,039
	55,377	55,199	49,572	50,506	46,172	41,873	43,945	41,427	45,034	50,506	41,427
Total											
Retail ¹	538,389	525,183	513,970	503,598	491,890	476,230	464,579	457,976	443,845	503,598	457,976
Wholesale ^{1,2}	278,982	269,417	249,067	237,939	230,131	221,364	232,339	227,269	235,948	237,939	227,269
Total loans and acceptances	817,371	794,600	763,037	741,537	722,021	697,594	696,918	685,245	679,793	741,537	685,245

¹ Commencing Q2 2021, certain loans are now classified as Retail - Small business and were previously classified as Wholesale, reflecting an alignment with capital measurement and reporting.

² Total wholesale exposure is comprised of wholesale loans and acceptances across all of our business segments.

³ Wholesale - Real estate and related loans and acceptances in Q3 2022 is comprised of amounts based in Canada of \$41.7 billion, United States of \$23.8 billion and Other International of \$11.2 billion.

⁴ Geographic information is based on residence of borrower.

GROSS IMPAIRED LOANS (Millions of Canadian dollars)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2021	2020
GIL by portfolio and sector												
Retail												
Residential mortgages		537	588	622	645	671	703	678	638	677	645	638
HELOC		52	60	67	72	81	97	107	109	134	72	109
Other personal		124	143	130	125	130	154	135	103	173	125	103
Total personal		176	203	197	197	211	251	242	212	307	197	212
Small business		118	110	107	109	107	116	90	90	98	109	90
		831	901	926	951	989	1,070	1,010	940	1,082	951	940
Wholesale												
Agriculture		13	14	13	11	10	22	62	70	94	11	70
Automotive		12	13	13	8	16	19	22	79	100	8	79
Banking		-	1	(1)	-	-	2	2	4	5	-	4
Consumer discretionary		205	232	219	274	287	315	276	281	380	274	281
Consumer staples		111	78	40	32	74	80	95	112	108	32	112
Oil and gas		64	95	121	131	196	204	333	552	840	131	552
Financial services		83	85	78	77	77	78	77	81	82	77	81
Financing products		-	-	-	-	-	-	-	-	-	-	-
Forest products		4	4	5	4	4	5	12	13	12	4	13
Governments		2	11	15	25	14	13	13	7	19	25	7
Industrial products		65	31	31	35	34	47	57	57	54	35	57
Information technology		6	4	7	5	30	30	7	14	4	5	14
Investments		8	6	7	31	32	33	44	47	167	31	47
Mining and metals		10	4	3	3	3	23	27	30	32	3	30
Public works and infrastructure		18	9	5	6	9	5	5	8	6	6	8
Real estate and related ¹		326	231	255	314	286	382	361	395	405	314	395
Other services		239	243	221	220	303	240	273	251	217	220	251
Telecommunication and Media		12	5	5	6	5	6	6	6	6	6	6
Transportation		12	136	133	137	150	151	142	148	143	137	148
Utilities		-	-	-	-	-	-	-	46	55	-	46
Other		32	28	39	32	36	45	40	45	35	32	45
		1,222	1,230	1,209	1,351	1,566	1,700	1,854	2,246	2,764	1,351	2,246
Acquired credit-impaired loans		6	6	6	6	6	7	8	9	11	6	9
Total GIL		2,059	2,137	2,141	2,308	2,561	2,777	2,872	3,195	3,857	2,308	3,195
GIL by geography ² and portfolio												
Canada												
Residential mortgages		342	379	419	443	459	495	471	425	486	443	425
HELOC		49	57	63	65	73	90	99	102	127	65	102
Other personal		96	114	105	99	101	121	108	75	139	99	75
Total personal		145	171	168	164	174	211	207	177	266	164	177
Small business		118	110	107	109	107	116	90	90	98	109	90
Retail		605	660	694	716	740	822	768	692	850	716	692
Wholesale		396	457	497	555	566	613	708	754	754	555	754
Total - Canada		1,001	1,117	1,191	1,271	1,306	1,435	1,476	1,446	1,604	1,271	1,446
United States												
Retail		35	32	23	23	23	22	27	32	27	23	32
Wholesale		526	484	393	412	585	651	677	1,039	1,570	412	1,039
		561	516	416	435	608	673	704	1,071	1,597	435	1,071
Other International												
Retail		191	209	209	212	226	226	215	216	206	212	216
Wholesale		306	295	325	390	421	443	477	462	450	390	462
		497	504	534	602	647	669	692	678	656	602	678
Total GIL		2,059	2,137	2,141	2,308	2,561	2,777	2,872	3,195	3,857	2,308	3,195

¹ Wholesale - Real estate and related GIL in Q3 2022 is comprised of amounts based in Canada of \$93 million, United States of \$168 million and Other International of \$65 million.

² Geographic information is based on residence of borrower.

GROSS IMPAIRED LOANS <i>continued</i> (Millions of Canadian dollars)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2021	2020
Impaired loans book movements (Change in GIL)												
Balance at beginning of period												
Retail		901	926	951	989	1,070	1,010	940	1,083	1,074	940	1,096
Wholesale		1,236	1,215	1,357	1,572	1,707	1,862	2,255	2,774	2,455	2,255	1,880
		2,137	2,141	2,308	2,561	2,777	2,872	3,195	3,857	3,529	3,195	2,976
Classified as impaired during the period (New impaired) ¹												
Retail		207	221	196	202	168	330	328	135	348	1,028	1,250
Wholesale		251	177	67	96	125	275	202	416	917	698	2,587
		458	398	263	298	293	605	530	551	1,265	1,726	3,837
Transferred to not impaired during the period (Return to performing status) ¹												
Retail		-	(2)	-	1	(1)	(1)	(15)	-	-	(16)	(5)
Wholesale		(99)	(28)	(51)	(144)	(38)	(51)	(193)	(204)	(21)	(426)	(344)
		(99)	(30)	(51)	(143)	(39)	(52)	(208)	(204)	(21)	(442)	(349)
Net repayments ^{1, 2}												
Retail		(29)	(13)	(12)	(19)	(16)	(16)	(20)	(17)	(27)	(71)	(129)
Wholesale		(63)	(90)	(113)	(87)	(108)	(269)	(186)	(543)	(354)	(650)	(1,369)
		(92)	(103)	(125)	(106)	(124)	(285)	(206)	(560)	(381)	(721)	(1,498)
Amounts written off												
Retail		(242)	(234)	(214)	(216)	(234)	(250)	(216)	(256)	(302)	(916)	(1,244)
Wholesale		(48)	(26)	(23)	(70)	(34)	(51)	(98)	(138)	(163)	(253)	(437)
		(290)	(260)	(237)	(286)	(268)	(301)	(314)	(394)	(465)	(1,169)	(1,681)
Disposal of loans (sold) ¹												
Retail		-	-	-	-	-	-	-	-	-	-	-
Wholesale		(1)	(5)	(42)	(2)	(96)	-	(63)	(34)	-	(161)	(34)
		(1)	(5)	(42)	(2)	(96)	-	(63)	(34)	-	(161)	(34)
Exchange and other movements ¹												
Retail		(6)	3	5	(6)	2	(3)	(7)	(5)	(10)	(14)	(28)
Wholesale		(48)	(7)	20	(8)	16	(59)	(55)	(16)	(60)	(106)	(28)
		(54)	(4)	25	(14)	18	(62)	(62)	(21)	(70)	(120)	(56)
Balance at end of period												
Retail		831	901	926	951	989	1,070	1,010	940	1,083	951	940
Wholesale		1,228	1,236	1,215	1,357	1,572	1,707	1,862	2,255	2,774	1,357	2,255
		2,059	2,137	2,141	2,308	2,561	2,777	2,872	3,195	3,857	2,308	3,195

Net impaired loans by geography ³ and portfolio												
Canada												
Residential mortgages		305	340	376	398	405	437	410	372	436	398	372
HELOC		35	42	45	47	52	65	69	72	92	47	72
Other personal		37	59	48	46	47	58	40	27	69	46	27
Total personal		72	101	93	93	99	123	109	99	161	93	99
Small business		78	74	72	75	73	79	54	57	63	75	57
Retail		455	515	541	566	577	639	573	528	660	566	528
Wholesale		215	262	294	373	367	397	493	534	518	373	534
United States												
Retail		33	30	22	20	22	21	26	31	25	20	31
Wholesale		396	319	254	286	442	501	502	772	1,245	286	772
		429	349	276	306	464	522	528	803	1,270	306	803
Other International												
Retail		92	104	104	105	110	114	99	100	88	105	100
Wholesale		196	187	201	261	261	286	285	281	288	261	281
		288	291	305	366	371	400	384	381	376	366	381
Total												
Retail		580	649	667	691	709	774	698	659	773	691	659
Wholesale		807	768	749	920	1,070	1,184	1,280	1,587	2,051	920	1,587
Total net impaired loans		1,387	1,417	1,416	1,611	1,779	1,958	1,978	2,246	2,824	1,611	2,246

¹ Certain GIL movements for Canadian Banking retail and wholesale portfolios are generally allocated to New impaired, as Return to performing status, Net repayments, Sold, and Exchange and other movements amounts are not reasonably determinable.
Certain GIL movements for Caribbean Banking retail and wholesale portfolios are generally allocated to Net repayments and New Impaired, as Return to performing status, Sold, and Exchange and other movements amounts are not reasonably determinable.

² Includes recoveries of loans and advances previously written off.

³ Geographic information is based on residence of borrower, net of allowance for impaired loans.

GROSS IMPAIRED LOANS <i>continued</i> (Millions of Canadian dollars)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2021	2020
Net write-offs by geography ¹ and portfolio												
Canada												
Residential mortgages		2	2	3	5	7	6	5	7	6	23	24
HELOC		1	2	1	2	3	4	3	4	3	12	13
Other personal		58	59	54	49	56	73	59	63	104	237	401
Total personal		59	61	55	51	59	77	62	67	107	249	414
Credit cards		88	80	70	65	78	80	66	90	106	289	472
Small business		5	6	4	8	5	5	5	7	8	23	31
Retail		154	149	132	129	149	168	138	171	227	584	941
Wholesale		13	4	6	20	16	14	26	17	30	76	68
United States												
Retail		1	1	-	2	1	1	-	3	3	4	5
Wholesale		33	(3)	(8)	23	-	22	54	99	26	99	211
		34	(2)	(8)	25	1	23	54	102	29	103	216
Other International												
Retail		6	2	4	3	(2)	3	2	6	6	6	14
Wholesale		(7)	14	8	19	-	-	6	5	95	25	101
		(1)	16	12	22	(2)	3	8	11	101	31	115
Total												
Retail		161	152	136	134	148	172	140	180	236	594	960
Wholesale		39	15	6	62	16	36	86	121	151	200	380
Total net write-offs		200	167	142	196	164	208	226	301	387	794	1,340

¹ Geographic information is based on residence of borrower, net of recoveries.

PROVISION FOR CREDIT LOSSES (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
PCL - loans by portfolio and sector													
Retail	133	(188)	(58)	(210)	(307)	(104)	(63)	60	252	(113)	(474)	(684)	1,071
Wholesale	44	(316)	(22)	(145)	(331)	(156)	(34)	87	28	(294)	(521)	(666)	1,560
PCL on performing loans (Stage 1 and 2)	177	(504)	(80)	(355)	(638)	(260)	(97)	147	280	(407)	(995)	(1,350)	2,631
Retail													
Residential mortgages	2	3	2	(6)	11	10	19	20	13	7	40	34	28
HELOC	2	(1)	2	1	1	(1)	5	-	5	3	5	6	17
Other personal	59	52	57	48	44	67	78	37	84	168	189	237	359
Total personal	61	51	59	49	45	66	83	37	89	171	194	243	376
Credit cards	88	83	71	66	79	82	69	92	111	242	230	296	484
Small business	12	9	6	10	4	8	9	9	14	27	21	31	49
Wholesale	163	146	138	119	139	166	180	158	227	447	485	604	937
Agriculture	(1)	2	-	-	-	(5)	-	-	4	1	(5)	(5)	14
Automotive	(1)	2	3	(2)	(6)	1	2	6	3	4	(3)	(5)	28
Banking	(4)	(1)	-	-	-	-	-	-	-	(5)	-	-	-
Consumer discretionary	5	14	3	(5)	(8)	20	-	18	10	22	12	7	98
Consumer staples	6	12	12	(2)	-	(2)	(10)	6	12	30	(12)	(14)	28
Oil and gas	(15)	11	10	(12)	(3)	(25)	(11)	33	43	6	(39)	(51)	305
Financial services	-	1	-	1	-	-	1	-	-	1	1	2	4
Financing products	-	-	-	-	-	-	-	-	-	-	-	-	-
Forest products	-	-	1	1	-	(7)	1	2	3	1	(6)	(5)	2
Governments	(1)	1	(2)	1	1	-	-	1	1	(2)	1	2	(2)
Industrial products	3	(1)	2	2	1	(2)	1	-	22	4	-	2	31
Information technology	1	(1)	(8)	12	13	(2)	1	-	-	(8)	12	24	(7)
Investments	1	1	1	(1)	-	(2)	-	(14)	14	3	(2)	(3)	7
Mining and metals	1	1	-	-	1	(6)	-	1	1	2	(5)	(5)	9
Public works and infrastructure	5	2	-	-	1	-	1	1	(14)	7	2	2	(9)
Real estate and related ¹	15	2	8	9	(17)	27	11	13	38	25	21	30	54
Other services	(3)	(24)	24	4	19	1	29	18	26	(3)	49	53	89
Telecommunication and Media	1	-	(5)	8	-	1	-	-	1	(4)	1	9	(3)
Transportation	-	1	(11)	2	10	8	12	-	15	(10)	30	32	8
Utilities	(8)	9	-	-	-	-	(1)	2	(6)	1	(1)	(1)	2
Other	2	(4)	4	-	(5)	3	1	6	(2)	2	(1)	(1)	5
	7	28	42	18	7	10	38	93	171	77	55	73	663
Acquired credit-impaired loans	-	-	-	-	-	1	-	-	-	-	1	1	-
Total PCL on impaired loans (Stage 3)	170	174	180	137	146	177	218	251	398	524	541	678	1,600
PCL - Loans	347	(330)	100	(218)	(492)	(83)	121	398	678	117	(454)	(672)	4,231
PCL - Other financial assets ²	(7)	(12)	5	(9)	(48)	(13)	(11)	29	(3)	(14)	(72)	(81)	120
Total PCL	340	(342)	105	(227)	(540)	(96)	110	427	675	103	(526)	(753)	4,351

¹ Wholesale - Real estate and related PCL in Q3 2022 is comprised of losses based in Canada of \$4 million, and United States of \$11 million.

² PCL on other financial assets relates to all other financial assets except for those classified or designated as FVTPL and equity securities designated as FVOCI. For further details refer to our 2021 Annual Report including Notes 4 and 5.

PROVISION FOR CREDIT LOSSES <i>continued</i> (Millions of Canadian dollars)													
	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
PCL on impaired loans (Stage 3) by geography ¹ and portfolio:													
Canada													
Residential mortgages	2	(1)	2	(1)	5	5	15	10	6	3	25	24	35
HELOC	2	(1)	2	1	1	(1)	5	-	4	3	5	6	17
Other personal	61	57	58	49	49	70	80	44	80	176	199	248	378
Total personal	63	56	60	50	50	69	85	44	84	179	204	254	395
Credit cards	87	81	70	65	77	79	67	89	106	238	223	288	471
Small business	12	9	6	10	4	8	9	9	14	27	21	31	49
Retail	164	145	138	124	136	161	176	152	210	447	473	597	950
Wholesale	5	1	37	15	8	29	34	11	70	43	71	86	163
Total Canada	169	146	175	139	144	190	210	163	280	490	544	683	1,113
United States													
Retail	2	1	(1)	4	2	2	(1)	2	3	2	3	7	5
Wholesale	1	26	3	7	(3)	7	(21)	52	92	30	(17)	(10)	377
	3	27	2	11	(1)	9	(22)	54	95	32	(14)	(3)	382
Other International													
Retail	(3)	-	1	(9)	1	3	5	4	14	(2)	9	-	(18)
Wholesale	1	1	2	(4)	2	(25)	25	30	9	4	2	(2)	123
	(2)	1	3	(13)	3	(22)	30	34	23	2	11	(2)	105
PCL (Stage 3) on impaired loans	170	174	180	137	146	177	218	251	398	524	541	678	1,600

¹ Geographic information is based on residence of borrower.

ALLOWANCE FOR CREDIT LOSSES (Millions of Canadian dollars)		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2021	2020
ACL - loans by portfolio and sector												
Retail		2,190	2,053	2,236	2,287	2,495	2,798	2,859	2,932	2,878	2,287	2,932
Wholesale		1,149	1,114	1,428	1,435	1,590	1,908	2,161	2,234	2,154	1,435	2,234
ACL on performing loans (Stage 1 and 2)		3,339	3,167	3,664	3,722	4,085	4,706	5,020	5,166	5,032	3,722	5,166
Retail												
Residential mortgages		127	133	137	138	156	155	158	152	151	138	152
HELOC		15	15	18	18	22	25	30	30	35	18	30
Other personal		69	68	69	70	68	79	88	66	89	70	66
Total personal		84	83	87	88	90	104	118	96	124	88	96
Small business		40	36	35	34	34	37	36	33	35	34	33
Wholesale		251	252	259	260	280	296	312	281	310	260	281
Agriculture		2	3	2	3	3	3	9	10	16	3	10
Automotive		6	7	5	2	7	15	14	14	19	2	14
Banking		(2)	(2)	-	-	-	-	-	-	-	-	-
Consumer discretionary		32	40	26	37	52	62	65	88	79	37	88
Consumer staples		35	31	19	8	11	12	14	26	19	8	26
Oil and gas		82	99	101	91	122	130	175	242	306	91	242
Financial services		23	24	23	22	22	22	23	22	23	22	22
Financing products		-	-	-	-	-	-	-	-	-	-	-
Forest products		1	1	1	1	1	2	9	9	8	1	9
Governments		1	1	1	3	2	2	2	2	2	3	2
Industrial products		12	12	14	13	14	15	17	18	16	13	18
Information technology		1	1	1	1	14	2	2	1	1	1	1
Investments		3	2	1	-	1	-	2	1	17	-	1
Mining and metals		2	1	1	1	1	1	8	9	8	1	9
Public works and infrastructure		9	4	3	2	3	2	3	2	1	2	2
Real estate and related ¹		88	78	79	72	73	98	84	88	81	72	88
Other services		101	109	137	116	119	105	108	99	92	116	99
Telecommunication and Media		4	4	4	9	1	1	-	-	1	9	-
Transportation		6	31	31	42	41	32	26	16	17	42	16
Utilities		-	9	-	-	-	-	-	2	1	-	2
Other		13	11	15	12	13	17	19	17	14	12	17
Acquired credit-impaired loans		419	466	464	435	500	521	580	666	721	435	666
ACL on impaired loans (Stage 3)		2	2	2	2	2	2	2	2	2	2	2
		672	720	725	697	782	819	894	949	1,033	697	949
ACL - loans		4,011	3,887	4,389	4,419	4,867	5,525	5,914	6,115	6,065	4,419	6,115
ACL on other financial assets ²		32	39	53	52	62	114	131	147	118	52	147
Total ACL		4,043	3,926	4,442	4,471	4,929	5,639	6,045	6,262	6,183	4,471	6,262

¹ Wholesale - Real estate and related ACL in Q3 2022 is comprised of allowances based in Canada of \$35 million, United States of \$28 million and Other International of \$25 million.

² ACL on other financial assets relates to all other financial assets except for those classified or designated as FVTPL and equity securities designated as FVOCI. For further details refer to our 2021 Annual Report including Notes 4 and 5.

ALLOWANCE FOR CREDIT LOSSES <i>continued</i> (Millions of Canadian dollars)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2021	2020
ACL on impaired loans (Stage 3) by geography ¹ and portfolio											
Canada											
Residential mortgages	37	39	43	45	54	58	61	53	50	45	53
HELOC	14	15	18	18	21	25	30	30	35	18	30
Other personal	59	55	57	53	54	63	68	48	70	53	48
Total personal	73	70	75	71	75	88	98	78	105	71	78
Small business	40	36	35	34	34	37	36	33	35	34	33
Retail	150	145	153	150	163	183	195	164	190	150	164
Wholesale	181	195	203	182	199	216	215	220	236	182	220
Canada - Total	331	340	356	332	362	399	410	384	426	332	384
United States											
Retail	2	2	1	3	1	1	1	1	2	3	1
Wholesale	130	165	139	126	143	150	175	267	325	126	267
United States - Total	132	167	140	129	144	151	176	268	327	129	268
Other International											
Retail	99	105	105	107	116	112	116	116	118	107	116
Wholesale	110	108	124	129	160	157	192	181	162	129	181
Other International - Total	209	213	229	236	276	269	308	297	280	236	297
ACL on impaired loans (Stage 3)	672	720	725	697	782	819	894	949	1,033	697	949
Impairment allowance - movements - Loans											
ACL on performing loans (Stage 1 and 2)											
Balance at beginning of period	3,167	3,664	3,722	4,085	4,706	5,020	5,166	5,032	4,793	5,166	2,587
Charge to income statement (PCL)	177	(504)	(80)	(355)	(638)	(260)	(97)	147	280	(1,350)	2,631
Exchange and other movements	(5)	7	22	(8)	17	(54)	(49)	(13)	(41)	(94)	(52)
Balance at the end of the period	3,339	3,167	3,664	3,722	4,085	4,706	5,020	5,166	5,032	3,722	5,166
ACL on impaired loans (Stage 3)											
Balance at beginning of period	720	725	697	782	819	894	949	1,033	1,072	949	832
Amounts written off	(290)	(260)	(237)	(286)	(268)	(301)	(314)	(394)	(465)	(1,169)	(1,681)
Recoveries of amounts written off in previous period	90	93	95	90	104	93	88	93	78	375	341
Charge to income statement (PCL)	170	174	180	137	146	177	218	251	398	678	1,600
Exchange and other movements	(18)	(12)	(10)	(26)	(19)	(44)	(47)	(34)	(50)	(136)	(143)
Balance at the end of the period	672	720	725	697	782	819	894	949	1,033	697	949

¹ Geographic information is based on residence of borrower.

CREDIT QUALITY RATIOS	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Diversification ratios													
Portfolio as a % of Total loans and acceptances													
Retail ¹	66%	66%	67%	68%	68%	68%	67%	67%	65%	66%	68%	68%	67%
Wholesale ¹	34%	34%	33%	32%	32%	32%	33%	33%	35%	34%	32%	32%	33%
Canada	75%	75%	76%	77%	78%	78%	77%	77%	77%	75%	78%	77%	77%
United States	18%	18%	17%	16%	16%	16%	17%	17%	17%	18%	16%	16%	17%
Other International	7%	7%	7%	7%	6%	6%	6%	6%	6%	7%	6%	7%	6%
Condition ratios													
GIL as a % of Related loans and acceptances	0.25%	0.27%	0.28%	0.31%	0.35%	0.40%	0.41%	0.47%	0.57%	0.25%	0.35%	0.31%	0.47%
Retail ¹	0.15%	0.17%	0.18%	0.19%	0.20%	0.22%	0.22%	0.21%	0.24%	0.15%	0.20%	0.19%	0.21%
Wholesale ¹	0.44%	0.46%	0.49%	0.57%	0.68%	0.77%	0.80%	0.99%	1.18%	0.44%	0.68%	0.57%	0.99%
Canada	0.16%	0.19%	0.20%	0.22%	0.23%	0.26%	0.27%	0.27%	0.31%	0.16%	0.23%	0.22%	0.27%
United States	0.37%	0.35%	0.31%	0.36%	0.51%	0.59%	0.61%	0.93%	1.36%	0.37%	0.51%	0.36%	0.93%
Other International	0.90%	0.91%	1.08%	1.19%	1.40%	1.60%	1.57%	1.64%	1.46%	0.90%	1.40%	1.19%	1.64%
Net impaired loans as a % of Related loans and acceptances	0.17%	0.18%	0.19%	0.22%	0.25%	0.28%	0.28%	0.33%	0.42%	0.17%	0.25%	0.22%	0.33%
Retail ¹	0.11%	0.12%	0.13%	0.14%	0.14%	0.16%	0.15%	0.14%	0.17%	0.11%	0.14%	0.14%	0.14%
Wholesale ¹	0.29%	0.28%	0.30%	0.39%	0.46%	0.53%	0.55%	0.70%	0.87%	0.29%	0.46%	0.39%	0.70%
Canada	0.11%	0.13%	0.14%	0.16%	0.17%	0.19%	0.20%	0.20%	0.23%	0.11%	0.17%	0.16%	0.20%
United States	0.29%	0.24%	0.21%	0.25%	0.39%	0.46%	0.46%	0.69%	1.08%	0.29%	0.39%	0.25%	0.69%
Other International	0.52%	0.53%	0.62%	0.72%	0.80%	0.95%	0.87%	0.92%	0.83%	0.52%	0.80%	0.72%	0.92%
PCL on loans as a % of average net loans and acceptances	0.17%	(0.18)%	0.05%	(0.12)%	(0.28)%	(0.05)%	0.07%	0.23%	0.40%	0.02%	(0.09)%	(0.10)%	0.63%
PCL on performing loans (Stage 1 and 2) as a % of average net loans and acceptances	0.09%	(0.27)%	(0.04)%	(0.19)%	(0.36)%	(0.16)%	(0.06)%	0.08%	0.17%	(0.07)%	(0.19)%	(0.20)%	0.39%
PCL on impaired loans (Stage 3) as a % of Related average net loans and acceptances	0.08%	0.09%	0.09%	0.07%	0.08%	0.11%	0.13%	0.15%	0.23%	0.09%	0.10%	0.10%	0.24%
Retail ¹	0.12%	0.12%	0.11%	0.10%	0.11%	0.14%	0.16%	0.14%	0.21%	0.12%	0.14%	0.13%	0.21%
Wholesale ¹	0.01%	0.04%	0.07%	0.03%	0.01%	0.02%	0.07%	0.16%	0.28%	0.04%	0.03%	0.03%	0.29%
Canada	0.11%	0.10%	0.12%	0.10%	0.11%	0.15%	0.16%	0.13%	0.22%	0.11%	0.15%	0.12%	0.22%
United States	0.01%	0.08%	0.01%	0.04%	(0.01)%	0.03%	(0.07)%	0.19%	0.30%	0.03%	(0.02)%	0.00%	0.34%
Other International	(0.02)%	0.01%	0.02%	(0.11)%	0.03%	(0.21)%	0.29%	0.31%	0.21%	0.01%	0.05%	0.00%	0.24%
Coverage ratios													
ACL on loans and acceptances as a % of Total loans and acceptances	0.49%	0.49%	0.58%	0.60%	0.67%	0.79%	0.85%	0.89%	0.89%	0.49%	0.67%	0.60%	0.89%
ACL against impaired loans (Stage 3) as a % of Total loans and acceptances	0.08%	0.09%	0.10%	0.09%	0.11%	0.12%	0.13%	0.14%	0.15%	0.08%	0.11%	0.09%	0.14%
Retail ¹	0.03%	0.03%	0.04%	0.03%	0.04%	0.05%	0.05%	0.04%	0.04%	0.03%	0.04%	0.03%	0.04%
Wholesale ¹	0.05%	0.06%	0.06%	0.06%	0.07%	0.07%	0.08%	0.10%	0.11%	0.05%	0.07%	0.06%	0.10%
ACL against impaired loans (Stage 3) as a % of GIL	32.64%	33.71%	33.87%	30.21%	30.56%	29.51%	31.14%	29.71%	26.78%	32.64%	30.56%	30.21%	29.71%
Retail	30.14%	27.95%	27.99%	27.37%	28.37%	27.69%	30.91%	29.88%	28.66%	30.14%	28.37%	27.37%	29.88%
Wholesale	34.33%	37.90%	38.36%	32.21%	31.93%	30.64%	31.27%	29.63%	26.05%	34.33%	31.93%	32.21%	29.63%
Total net write-offs as a % of Related average net loans and acceptances	0.10%	0.09%	0.08%	0.11%	0.09%	0.12%	0.13%	0.18%	0.23%	0.09%	0.12%	0.11%	0.20%
Retail ¹	0.12%	0.12%	0.11%	0.11%	0.12%	0.15%	0.12%	0.16%	0.21%	0.12%	0.13%	0.12%	0.22%
Wholesale ¹	0.06%	0.02%	0.01%	0.11%	0.03%	0.07%	0.15%	0.21%	0.25%	0.03%	0.08%	0.09%	0.16%
Canada	0.11%	0.11%	0.09%	0.11%	0.12%	0.14%	0.12%	0.14%	0.20%	0.10%	0.13%	0.12%	0.20%
United States	0.09%	0.00%	(0.02)%	0.08%	0.00%	0.09%	0.19%	0.35%	0.09%	0.02%	0.15%	0.09%	0.19%
Other International	(0.01)%	0.12%	0.10%	0.17%	(0.02)%	0.03%	0.08%	0.10%	0.89%	0.07%	0.06%	0.08%	0.26%

¹ Commencing Q2 2021, certain loans are now classified as Retail - Small business and were previously classified as Wholesale, reflecting an alignment with capital measurement and reporting.

CREDIT RISK EXPOSURE BY GEOGRAPHY AND PORTFOLIO (Millions of Canadian dollars)	Credit Risk ¹			Counterparty credit risk ²		Q3/22	Q2/22	Q1/22	Q4/21	Q3/21
	On-balance sheet	Off-balance sheet amount ³		Repo-style		Total	Total	Total	Total	Total
	Amount	Undrawn	Other ⁴	transactions	Derivatives					
Credit risk exposure by geography ⁵ and portfolio										
Canada										
Residential secured ⁶	346,087	104,338	-	-	-	450,425	441,899	435,984	426,119	419,097
Qualifying revolving ⁷	31,284	93,295	-	-	-	124,579	122,882	121,092	120,244	119,914
Other Retail ⁸	89,509	19,161	124	-	-	108,794	105,724	104,042	99,759	96,415
Total Canada retail	466,880	216,794	124	-	-	683,798	670,505	661,118	646,122	635,426
Corporate ⁸	131,406	55,193	8,236	9,298	16,870	221,003	215,934	210,491	206,021	205,394
Sovereign	84,530	8,024	579	5,587	5,309	104,029	127,145	150,745	149,269	148,547
Bank	12,221	237	84	74,775	4,813	92,130	84,524	83,214	82,638	76,688
Total Canada wholesale	228,157	63,454	8,899	89,660	26,992	417,162	427,603	444,450	437,928	430,629
Total Canada	695,037	280,248	9,023	89,660	26,992	1,100,960	1,098,108	1,105,568	1,084,050	1,066,055
United States										
Residential secured ⁶	28,613	180	-	-	-	28,793	26,889	24,940	23,190	21,789
Qualifying revolving ⁷	67	377	-	-	-	444	441	431	432	438
Other retail	4,577	440	4	-	-	5,021	5,077	4,711	4,388	4,136
Total United States retail	33,257	997	4	-	-	34,258	32,407	30,082	28,010	26,363
Corporate	106,190	69,966	7,661	45,169	21,899	250,885	249,284	230,008	220,226	208,574
Sovereign	159,524	2,483	1,312	317	1,616	165,252	132,368	129,169	135,138	130,456
Bank	5,967	1,191	225	6,982	5,284	19,649	23,910	21,941	21,603	18,458
Total United States wholesale	271,681	73,640	9,198	52,468	28,799	435,786	405,562	381,118	376,967	357,488
Total United States	304,938	74,637	9,202	52,468	28,799	470,044	437,969	411,200	404,977	383,851
Other International										
Retail										
Residential secured ⁶	12,176	812	-	-	-	12,988	11,699	9,747	10,093	9,198
Qualifying revolving ⁷	52	302	-	-	-	354	354	347	336	337
Other retail	1,331	13	9	-	-	1,353	870	533	783	806
Total other international retail	13,559	1,127	9	-	-	14,695	12,923	10,627	11,212	10,341
Corporate	42,425	27,782	3,568	18,006	20,235	112,016	117,727	103,897	101,902	101,691
Sovereign	72,219	758	29	17,100	7,283	97,389	111,305	100,499	76,948	87,038
Bank	10,723	493	429	31,881	11,305	54,831	56,888	55,180	54,057	54,466
Total other international wholesale	125,367	29,033	4,026	66,987	38,823	264,236	285,920	259,576	232,907	243,195
Total Other International	138,926	30,160	4,035	66,987	38,823	278,931	298,843	270,203	244,119	253,536
Total exposure ⁹	1,138,901	385,045	22,260	209,115	94,614	1,849,935	1,834,920	1,786,971	1,733,146	1,703,442

¹ EAD for Standardized exposures are reported net of Stage 3 allowances and EAD for IRB exposures are reported gross of all allowances for credit loss and partial write-off as per regulatory definitions.

² Counterparty credit risk EAD reflects exposure amounts after netting. Collateral is included in EAD for repo-style transactions to the extent allowed by regulatory guidelines.

³ EAD for undrawn credit commitments and other off-balance sheet amounts are reported after the application of credit conversion factors.

⁴ Includes other off-balance sheet exposures such as letters of credit and guarantees.

⁵ Geographic profile is based on the country of residence of the borrower.

⁶ Includes residential mortgages and home equity lines of credit.

⁷ Includes credit cards, unsecured lines of credit and overdraft protection products.

⁸ Commencing Q2 2021, certain loans have been prospectively reclassified from our Corporate to Other retail portfolio reflecting an alignment with capital measurement and reporting.

⁹ Excludes securitization, banking book equities and other assets not subject to the standardized or Internal Ratings Based (IRB) approach as well as exposures from the Paycheck Protection Program instituted by the U.S. government in Q2 2020.

ACTUAL LOSSES VS. ESTIMATED LOSSES (Millions of Canadian dollars, except percentage and per share amounts)	Q3/22		Q2/22		Q1/22		Q4/21		
	Actual loss rate ¹	Estimated loss rate ²	Actual loss rate ¹	Estimated loss rate ²	Actual loss rate ¹	Estimated loss rate ²	Actual loss rate ¹	Estimated loss rate ²	Average historical actual loss rate ³
Residential mortgages	0.00%	0.06%	0.00%	0.07%	0.00%	0.07%	0.01%	0.07%	0.02%
Personal	0.23%	1.09%	0.22%	1.09%	0.24%	1.10%	0.27%	1.04%	0.57%
Credit cards	1.68%	3.34%	1.68%	3.44%	1.72%	3.69%	1.74%	3.65%	2.88%
Small business	0.31%	2.11%	0.24%	2.23%	0.24%	2.41%	0.31%	2.49%	1.26%
Retail	0.11%	0.44%	0.11%	0.45%	0.11%	0.48%	0.12%	0.39%	0.32%
Wholesale	0.04%	0.27%	0.04%	0.38%	0.03%	0.38%	0.03%	0.44%	0.30%

¹ Actual loss reflects internal credit loss experience realized over a given period. Actual loss rate is the sum of PCL on impaired loans divided by average of loans and acceptances period end outstanding for the current and prior 3-quarter period.

² Estimated loss represents the expected loss calculated using the Basel III "through the cycle" parameters of PD x LGD x EAD, which is estimated based on available historical loss data for Advanced Internal Ratings Based (AIRB) exposures as of the prior 12 month period. Estimated loss rate represents the expected loss as a proportion of drawn EAD.

³ Average annual actual loss rate from fiscal 2003 through to the most recent full year. The information is updated on an annual basis and is based on consolidated results. The Average historical actual loss rate on a continuing operations basis is 0.31%.

BASEL PILLAR 3 BACK-TESTING (INTERNAL RATINGS BASED) ^{4,5}	Q3 2022					
	Average probability of default (PD)		Average loss given default (LGD)		Average Exposure at Default (EAD) ⁶	
	Actual %	Estimated %	Actual %	Estimated %	Actual %	Estimated %
Retail						
Residential mortgages						
Uninsured	0.12%	0.40%	5.56%	16.04%	100.00%	100.00%
Insured	0.31%	0.99%	n.a.	n.a.	100.00%	100.00%
Personal	0.29%	0.51%	32.41%	46.12%	66.05%	93.25%
Credit cards	0.49%	0.75%	90.53%	94.91%	64.59%	84.33%
Small business	0.90%	2.72%	20.16%	65.42%	83.96%	96.10%
Wholesale						
Corporate	0.23%	1.36%	21.78%	40.61%	28.41%	48.03%
Sovereign	0.13%	0.30%	n.a.	18.89%	n.a.	50.01%
Bank	0.13%	0.54%	n.a.	26.61%	n.a.	44.79%

BASEL PILLAR 3 BACK-TESTING (INTERNAL RATINGS BASED) ^{4,5}	Q2 2022					
	Average probability of default (PD)		Average loss given default (LGD)		Average Exposure at Default (EAD) ⁶	
	Actual %	Estimated %	Actual %	Estimated % ⁷	Actual %	Estimated % ⁷
Retail						
Residential mortgages						
Uninsured	0.12%	0.39%	6.07%	16.07%	100.00%	100.00%
Insured	0.32%	1.01%	n.a.	n.a.	100.00%	100.00%
Personal	0.27%	0.50%	32.23%	46.04%	66.20%	93.26%
Credit cards	0.49%	0.74%	90.67%	94.91%	61.40%	84.18%
Small business	0.76%	2.65%	24.24%	65.39%	82.27%	96.13%
Wholesale						
Corporate	0.22%	1.44%	25.40%	40.75%	38.13%	48.10%
Sovereign	0.04%	0.30%	n.a.	18.79%	n.a.	50.06%
Bank	n.a.	0.50%	n.a.	26.92%	n.a.	45.72%

⁴ Back-testing is performed to check the effectiveness of the models used to measure PD, LGD and EAD. Actual and Estimated percentages for Retail are as of the reporting quarter. Actual and Estimated percentages for Wholesale are reported on a one quarter lag.

⁵ There are several key differences under current Basel and IFRS 9 reporting rules which could lead to significantly different expected loss estimates for PD and LGD. Basel parameters reflect historical experience adjusted for periods of downturn whereas IFRS 9 parameters are based on forward-looking macroeconomic scenarios. For further information refer to our 2021 Annual Report.

⁶ For Retail, EAD rate represents the utilization of the authorized credit limit. For Wholesale, EAD rate represents the utilization of the undrawn amount.

⁷ Wholesale figures have been revised from those previously presented.

FAIR VALUE OF DERIVATIVE INSTRUMENTS (Millions of Canadian dollars)	Q3/22		Q2/22		Q1/22		Q4/21		Q3/21		Q2/21	
	Fair value		Fair value		Fair value		Fair value		Fair value		Fair value	
	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative
Held or issued for trading purposes	122,710	113,526	157,097	146,986	91,902	86,193	93,953	89,577	99,959	95,792	94,645	90,842
Held or issued for other than trading purposes	2,520	8,402	3,393	7,863	2,067	2,628	2,712	2,149	3,301	1,747	3,951	2,093
Total gross fair values before netting ¹	125,230	121,928	160,490	154,849	93,969	88,821	96,665	91,726	103,260	97,539	98,596	92,935
Impact of netting agreements	(1,286)	(1,286)	(2,783)	(2,783)	(716)	(716)	(314)	(314)	(440)	(440)	(594)	(594)
that qualify for balance sheet offset ²	123,944	120,642	157,707	152,066	93,253	88,105	96,351	91,412	102,820	97,099	98,002	92,341
Total												

DERIVATIVES - NOTIONAL AMOUNTS ^{3,4} (Millions of Canadian dollars)	Q3/22						Q2/22						Q1/22					
	Trading						Trading						Trading					
	Over the counter		Exchange traded	Total	Non-trading		Over the counter		Exchange traded	Total	Non-trading		Over the counter		Exchange traded	Total	Non-trading	
	Centrally cleared	Non Centrally cleared					Centrally cleared	Non Centrally cleared					Centrally cleared	Non Centrally cleared				
Interest rate contracts																		
Forward rate agreements	531,088	278,499	-	809,587	3,691	813,278	638,882	307,521	-	946,403	2,570	948,973	535,078	407,820	-	942,898	3,812	946,710
Swaps	14,223,159	1,012,031	-	15,235,190	639,543	15,874,733	14,875,740	1,028,899	-	15,904,639	652,766	16,557,405	15,310,020	1,107,906	-	16,417,926	593,747	17,011,673
Options purchased	-	753,473	47,428	800,901	-	800,901	-	792,751	41,306	834,057	-	834,057	-	772,367	36,158	808,525	-	808,525
Options written	-	746,121	24,891	771,012	-	771,012	-	804,865	35,692	840,557	-	840,557	-	759,199	22,418	781,617	-	781,617
Futures	-	-	500,008	500,008	105	500,113	-	-	484,580	484,580	-	484,580	-	-	467,555	467,555	1,429	468,984
	14,754,247	2,790,124	572,327	18,116,698	643,339	18,760,037	15,514,622	2,934,036	561,578	19,010,236	655,336	19,665,572	15,845,098	3,047,292	526,131	19,418,521	598,988	20,017,509
Foreign exchange contracts																		
Forward contracts	-	2,060,404	-	2,060,404	38,946	2,099,350	-	2,108,128	-	2,108,128	37,189	2,145,317	-	1,948,714	-	1,948,714	20,551	1,969,265
Cross currency swaps	-	192,792	-	192,792	3,979	196,771	-	210,749	-	210,749	4,216	214,965	-	211,353	-	211,353	7,277	218,630
Cross-currency interest rate swaps	-	2,680,715	-	2,680,715	47,818	2,728,533	-	2,649,964	-	2,649,964	41,618	2,691,582	-	2,535,501	-	2,535,501	40,284	2,575,785
Options purchased	-	74,588	-	74,588	-	74,588	-	72,290	-	72,290	-	72,290	-	77,086	-	77,086	-	77,086
Options written	-	77,906	-	77,906	-	77,906	-	77,583	-	77,583	-	77,583	-	86,740	-	86,740	-	86,740
Futures	-	-	119	119	-	119	-	-	141	141	-	141	-	-	137	137	-	137
	-	5,086,405	119	5,086,524	90,743	5,177,267	-	5,118,714	141	5,118,855	83,023	5,201,878	-	4,859,394	137	4,859,531	68,112	4,927,643
Credit derivatives	32,004	11,458	-	43,462	580	44,042	25,918	7,905	-	33,823	582	34,405	30,435	8,307	-	38,742	576	39,318
Other contracts ⁵	645	361,323	710,294	1,072,262	13,721	1,085,983	760	318,291	585,419	904,470	13,028	917,498	260	305,439	503,808	809,507	13,179	822,686
Total	14,786,896	8,249,310	1,282,740	24,318,946	748,383	25,067,329	15,541,300	8,378,946	1,147,138	25,067,384	751,969	25,819,353	15,875,793	8,220,432	1,030,076	25,126,301	680,855	25,807,156

DERIVATIVES - NOTIONAL AMOUNTS ^{3,4} (Millions of Canadian dollars)	Q4/21						Q3/21						Q2/21					
	Trading						Trading						Trading					
	Over the counter		Exchange traded	Total	Non-trading		Over the counter		Exchange traded	Total	Non-trading		Over the counter		Exchange traded	Total	Non-trading	
	Centrally cleared	Non Centrally cleared					Centrally cleared	Non Centrally cleared					Centrally cleared	Non Centrally cleared				
Interest rate contracts																		
Forward rate agreements	661,731	353,532	-	1,015,263	13,434	1,028,697	1,306,371	433,738	-	1,740,109	12,478	1,752,587	1,833,105	493,545	-	2,326,650	2,704	2,329,354
Swaps	13,093,343	1,166,414	-	14,259,757	504,156	14,763,913	13,786,671	1,139,359	-	14,926,030	449,194	15,375,224	13,502,555	1,175,529	-	14,678,084	415,190	15,093,274
Options purchased	-	764,494	43,321	807,815	-	807,815	-	894,818	41,990	936,808	102	936,910	-	859,371	41,058	900,429	101	900,530
Options written	-	784,205	23,572	807,777	-	807,777	-	860,697	36,986	897,683	-	897,683	-	946,242	31,699	977,941	-	977,941
Futures	-	-	526,149	526,149	3,260	529,409	-	-	541,089	541,089	2,961	544,050	-	-	507,305	507,305	788	508,093
	13,755,074	3,068,645	593,042	17,416,761	520,850	17,937,611	15,093,042	3,328,612	620,065	19,041,719	464,735	19,506,454	15,335,660	3,474,687	580,062	19,390,409	418,783	19,809,192
Foreign exchange contracts																		
Forward contracts	-	1,753,075	-	1,753,075	36,463	1,789,538	-	1,483,556	-	1,483,556	26,804	1,510,360	-	1,693,616	-	1,693,616	29,656	1,723,272
Cross currency swaps	-	204,789	-	204,789	8,359	213,148	-	200,691	-	200,691	5,978	206,669	-	187,137	-	187,137	6,555	193,692
Cross-currency interest rate swaps	-	2,376,225	-	2,376,225	32,675	2,408,900	-	2,366,157	-	2,366,157	30,265	2,396,422	-	2,277,820	-	2,277,820	33,311	2,311,131
Options purchased	-	65,216	-	65,216	-	65,216	-	73,770	-	73,770	-	73,770	-	55,093	-	55,093	-	55,093
Options written	-	72,524	-	72,524	-	72,524	-	79,696	-	79,696	-	79,696	-	60,725	-	60,725	-	60,725
Futures	-	-	129	129	-	129	-	-	167	167	-	167	-	-	226	226	-	226
	-	4,471,829	129	4,471,958	77,497	4,549,455	-	4,203,870	167	4,204,037	63,047	4,267,084	-	4,274,391	226	4,274,617	69,522	4,344,139
Credit derivatives	35,561	6,867	-	42,428	483	42,911	41,301	6,301	-	47,602	486	48,088	41,696	3,565	-	45,261	479	45,740
Other contracts ⁵	-	325,226	476,649	801,875	12,651	814,526	-	307,485	434,243	741,728	11,936	753,664	214	299,277	187,527	487,018	11,450	498,468
Total	13,790,635	7,872,567	1,069,820	22,733,022	611,481	23,344,503	15,134,343	7,846,268	1,054,475	24,035,086	540,204	24,575,290	15,377,570	8,051,920	767,815	24,197,305	500,234	24,697,539

¹ As at Q3 2022, positive and negative fair values exclude market and credit valuation adjustments of \$1,886 million and \$774 million respectively that are determined on a pooled basis.

² Impact of offsetting derivative assets and liabilities on contracts where we have both (a) unconditional and legally enforceable netting agreement in place and (b) we intend to settle the contracts on either a net basis or simultaneously. The right of setoff is considered unconditional if its exercise is not contingent upon the occurrence of a future event; it is considered conditional if it becomes exercisable only upon the occurrence of a future event, such as bankruptcy, insolvency, default, or change in control.

³ Notional amounts do not represent assets or liabilities and therefore are not recorded in our Consolidated Balance Sheet.

⁴ The majority of non-centrally cleared over the counter derivative activity is conducted with other professional market counterparties, under bilateral collateral arrangements with very low unsecured thresholds and daily collateral valuations. These collateral arrangements take the form of Credit Support Annex, to the International Swaps and Derivatives Association master agreement.

⁵ Comprises precious metal, commodity, stable value and equity-linked derivative contracts and excludes loan-related commitment derivatives of \$8 billion which are not classified as derivatives under CAR guidelines.

DERIVATIVE - RELATED CREDIT RISK ^{1,2} (Millions of Canadian dollars)	Q3/22				Q2/22				Q1/22				Q4/21			
	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³
Over-the-counter contracts																
Interest rate contracts																
Forward rate agreements	813,278	73	116	7	948,973	26	66	12	946,710	12	68	16	1,028,697	9	64	20
Swaps	15,874,733	4,883	15,964	4,243	16,557,405	5,525	16,715	4,305	17,011,673	4,475	16,512	4,364	14,763,913	4,519	16,203	4,569
Options purchased	753,473	91	423	116	792,751	82	377	115	772,367	111	384	147	764,494	113	403	187
Options written	746,121	-	398	124	804,865	18	456	156	759,199	8	401	128	784,205	23	415	141
Foreign exchange contracts																
Forward contracts	2,099,350	4,721	24,466	4,965	2,145,317	8,342	27,618	5,734	1,969,265	3,486	22,013	4,838	1,789,538	3,085	19,097	4,232
Swaps	2,925,304	4,536	19,276	4,202	2,906,547	4,261	18,044	3,979	2,794,415	2,873	16,947	4,087	2,622,048	2,621	16,484	4,092
Options purchased	74,588	252	665	220	72,290	321	749	256	77,086	249	664	186	65,216	177	510	145
Options written	77,906	2	278	75	77,583	1	244	69	86,740	1	232	59	72,524	2	196	43
Credit derivatives	44,042	809	2,240	255	34,405	451	1,440	183	39,318	652	1,833	220	42,911	913	2,234	213
Other contracts	375,689	7,472	24,357	9,716	332,079	9,253	27,923	11,684	318,878	5,693	23,175	7,896	337,877	7,668	26,567	10,480
Exchange traded contracts	1,282,845	1,749	6,430	129	1,147,138	2,120	6,101	122	1,031,505	1,528	6,609	132	1,073,080	1,814	6,218	124
Total derivatives	25,067,329	24,588	94,613	24,052	25,819,353	30,400	99,733	26,615	25,807,156	19,088	88,838	22,073	23,344,503	20,944	88,391	24,246

DERIVATIVE - RELATED CREDIT RISK ^{1,2} (Millions of Canadian dollars)	Q3/21				Q2/21				Q1/21				Q4/20			
	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³	Notional amount	Replacement cost	Credit equivalent amount	Risk-weighted equivalent ³
Over-the-counter contracts																
Interest rate contracts																
Forward rate agreements	1,752,587	14	83	29	2,329,354	7	567	215	3,326,533	32	238	140	3,210,251	30	191	79
Swaps	15,375,224	5,386	15,469	5,430	15,093,274	5,045	14,901	5,704	15,406,093	5,817	15,876	6,659	13,154,831	7,112	17,324	7,359
Options purchased	894,920	126	380	195	859,472	108	362	233	891,720	147	401	265	876,286	142	392	285
Options written	860,697	1	330	127	946,242	10	335	128	1,051,616	3	302	126	911,806	4	307	136
Foreign exchange contracts																
Forward contracts	1,510,360	3,263	18,313	3,934	1,723,272	2,987	17,848	4,864	1,679,050	2,425	17,005	4,629	1,725,341	2,796	17,641	4,537
Swaps	2,603,091	2,530	16,340	3,772	2,504,823	2,831	16,307	4,547	2,455,154	2,447	16,211	4,444	2,363,413	2,392	15,349	3,997
Options purchased	73,770	235	628	163	55,093	190	525	180	57,741	318	707	226	64,031	465	923	292
Options written	79,696	2	192	43	60,725	7	162	56	64,574	23	169	82	66,916	1	155	59
Credit derivatives	48,088	1,147	2,792	231	45,740	1,106	2,526	111	45,261	1,342	2,970	131	48,763	429	1,839	81
Other contracts	319,420	6,419	24,034	8,923	310,941	4,972	21,780	10,127	269,138	4,053	18,763	8,831	291,724	3,577	16,455	7,719
Exchange traded contracts	1,057,437	1,463	5,834	117	768,603	1,924	6,724	134	952,634	1,772	6,640	133	1,018,864	3,137	8,842	177
Total derivatives	24,575,290	20,586	84,395	22,964	24,697,539	19,187	82,037	26,299	26,199,514	18,379	79,282	25,666	23,732,226	20,085	79,418	24,721

¹ The amounts presented are net of master netting agreements in accordance with CAR guidelines.

² Replacement cost, credit equivalent amount and risk-weighted equivalent are determined using the standardized approach for measuring counterparty credit risk (SA-CCR) in accordance with the Capital Adequacy Requirements (CAR).

³ The risk-weighted balances are calculated in accordance with CAR guidelines and excludes CVA of \$15 billion (April 30, 2022 - \$16 billion).

CALCULATION OF ROE ¹ AND RETURN ON RISK CAPITAL (RORC) ¹ (Millions of Canadian dollars, except percentage and per share amounts)	Q3/22	Q2/22	Q1/22	Q4/21	Q3/21	Q2/21	Q1/21	Q4/20	Q3/20	2022 9 months	2021 9 months	2021	2020
Personal & Commercial Banking													
Net income available to common shareholders	2,005	2,211	1,957	2,009	2,093	1,885	1,774	1,482	1,345	6,173	5,752	7,761	5,006
Average risk capital	22,850	21,950	21,650	20,100	20,300	19,800	18,900	18,250	18,300	22,150	19,650	19,750	18,550
Add: Average goodwill and other intangibles	4,400	4,450	4,450	4,450	4,450	4,450	4,450	4,450	4,550	4,450	4,450	4,450	4,550
Average attributed capital	27,250	26,400	26,100	24,550	24,750	24,250	23,350	22,700	22,850	26,600	24,100	24,200	23,100
ROE ²	29.2%	34.4%	29.8%	32.5%	33.6%	31.8%	30.1%	26.0%	23.4%	31.0%	31.9%	32.0%	21.7%
Return on risk capital (RORC)	34.8%	41.3%	35.9%	39.7%	40.9%	39.1%	37.3%	32.3%	29.3%	37.3%	39.1%	39.3%	27.0%
Canadian Banking													
Net income available to common shareholders	1,957	2,123	1,900	1,953	2,010	1,852	1,739	1,456	1,314	5,980	5,601	7,554	5,009
Average risk capital	21,650	20,850	20,500	19,000	19,250	18,650	17,800	17,150	17,150	21,000	18,600	18,700	17,450
Add: Average goodwill and other intangibles	2,750	2,750	2,750	2,750	2,800	2,800	2,750	2,700	2,700	2,750	2,750	2,750	2,700
Average attributed capital	24,400	23,600	23,250	21,750	22,050	21,450	20,550	19,850	19,850	23,750	21,350	21,450	20,150
ROE ²	31.8%	36.9%	32.4%	35.6%	36.2%	35.4%	33.6%	29.1%	26.3%	33.7%	35.1%	35.2%	24.9%
RORC	35.8%	41.7%	36.7%	40.8%	41.4%	40.7%	38.8%	33.7%	30.5%	38.0%	40.3%	40.4%	28.7%
Wealth Management													
Net income available to common shareholders	765	737	785	546	734	668	629	531	534	2,287	2,031	2,577	2,100
Average risk capital	12,100	11,150	10,650	9,650	9,050	9,050	9,000	8,850	8,950	11,300	9,050	9,200	8,550
Add: Average goodwill and other intangibles	6,850	6,950	6,950	6,900	6,900	7,050	7,200	7,350	7,500	6,900	7,050	7,000	7,500
Average attributed capital	18,950	18,100	17,600	16,550	15,950	16,100	16,200	16,200	16,450	18,200	16,100	16,200	16,050
ROE ²	16.0%	16.7%	17.7%	13.1%	18.3%	17.0%	15.4%	13.0%	12.9%	16.8%	16.9%	15.9%	13.1%
RORC	25.1%	27.1%	29.2%	22.5%	32.2%	30.3%	27.8%	23.9%	23.7%	27.0%	30.1%	28.1%	24.5%
Insurance													
Net income available to common shareholders	185	204	196	265	233	185	199	252	214	585	617	882	823
Average risk capital	2,000	2,200	2,150	2,200	2,100	2,150	2,050	2,150	2,150	2,100	2,100	2,150	2,050
Add: Average goodwill and other intangibles	250	200	250	250	250	200	250	200	250	250	250	200	250
Average attributed capital	2,250	2,400	2,400	2,450	2,350	2,350	2,300	2,350	2,400	2,350	2,350	2,350	2,300
ROE ²	32.3%	34.6%	32.4%	42.8%	39.5%	32.1%	34.5%	42.5%	35.9%	33.1%	35.4%	37.4%	36.1%
RORC	36.2%	38.3%	36.0%	47.3%	43.9%	35.6%	38.4%	47.0%	39.6%	36.8%	39.3%	41.4%	39.9%
Investor & Treasury Services													
Net income available to common shareholders	162	119	116	107	86	117	121	89	72	397	324	431	523
Average risk capital	2,650	2,450	2,400	2,200	2,500	2,750	2,500	2,850	2,800	2,500	2,600	2,500	2,700
Add: Average goodwill and other intangibles	550	550	550	550	550	600	650	600	650	550	600	600	600
Average attributed capital	3,200	3,000	2,950	2,750	3,050	3,350	3,150	3,450	3,450	3,050	3,200	3,100	3,300
ROE ²	20.2%	16.1%	15.7%	15.2%	11.1%	14.3%	15.3%	10.1%	8.4%	17.4%	13.6%	14.0%	15.9%
RORC	24.2%	19.7%	19.5%	19.3%	13.7%	17.4%	19.0%	12.3%	10.1%	21.2%	16.7%	17.3%	19.5%
Capital Markets													
Net income available to common shareholders	463	778	1,015	904	1,114	1,050	1,051	819	930	2,256	3,215	4,119	2,698
Average risk capital	24,000	23,150	22,750	20,550	20,650	21,100	20,800	20,900	21,850	23,300	20,850	20,750	21,350
Add: Average goodwill and other intangibles	1,850	1,850	1,800	1,750	1,750	1,750	1,800	1,800	1,800	1,850	1,750	1,800	1,800
Average attributed capital	25,850	25,000	24,550	22,300	22,400	22,850	22,600	22,700	23,650	25,150	22,600	22,550	23,150
ROE ²	7.1%	12.8%	16.4%	16.1%	19.7%	18.9%	18.5%	14.4%	15.7%	12.0%	19.0%	18.3%	11.7%
RORC	7.7%	13.8%	17.7%	17.5%	21.4%	20.4%	20.0%	15.6%	16.9%	12.9%	20.6%	19.8%	12.6%
Corporate Support ³													
Net income available to common shareholders	(63)	133	(30)	(12)	(23)	33	13	-	37	40	23	11	14
Average risk capital and other	3,500	2,900	2,750	2,850	2,800	2,600	2,750	2,850	1,950	3,050	2,700	2,750	2,200
Add: Average under/(over) attribution of capital	14,750	15,500	16,100	18,050	14,500	11,950	10,400	8,550	8,600	15,450	12,250	13,700	8,700
Average attributed capital	18,250	18,400	18,850	20,900	17,300	14,550	13,150	11,400	10,550	18,500	14,950	16,450	10,900
RBC													
Net income	3,577	4,253	4,095	3,892	4,296	4,015	3,847	3,246	3,201	11,925	12,158	16,050	11,437
Net income available to common shareholders	3,517	4,182	4,039	3,819	4,237	3,938	3,787	3,173	3,132	11,738	11,962	15,781	11,164
Average risk capital	65,700	62,400	60,850	56,000	55,950	56,000	54,600	54,400	54,650	63,000	55,500	55,650	54,100
Average common equity	95,750	93,300	92,450	89,500	85,800	83,450	80,750	78,800	79,350	93,850	83,300	84,850	78,800
ROE	14.6%	18.4%	17.3%	16.9%	19.6%	19.4%	18.6%	16.0%	15.7%	16.7%	19.2%	18.6%	14.2%
RORC	21.2%	27.5%	26.3%	27.1%	30.1%	28.8%	27.5%	23.2%	22.8%	24.9%	28.8%	28.4%	20.6%

¹ See 'Glossary' beginning on page 36 for explanation of composition.

² Business segment ROE is based on Average attributed capital. Under/(over) attribution of capital is reported in Corporate Support.

³ We do not report ROE and RORC for Corporate Support as they are considered not meaningful.

Non-GAAP financial measures and non-GAAP ratios

Management measures and evaluates the performance of our consolidated operations and each of our segments based on variety of financial measures. In addition to generally accepted accounting principles (GAAP) prescribed measures, we use certain non-GAAP measures and key performance measures. We believe these measures provide useful information to investors regarding our financial condition and result of operations:

- Providing EPS excluding the dilutive impact of exchangeable shares enhances comparability as some institutions do not utilize such structures.
- The adjusted efficiency ratio is a useful measure as changes in the fair value of investments backing policyholder liabilities can lead to volatility in total revenue that could obscure trends in underlying business performance and reduce comparability with prior periods.
- Teb adjusted amounts are useful to illustrate the impact of tax-advantaged revenue sources in our Capital Markets business on our effective tax rate.
- Measures which exclude the impact of the amortization or impairment of intangibles (excluding software) and goodwill enhances comparability as transaction specific intangible assets and/or goodwill can differ widely between organizations and impairments can give rise to volatility in a particular period.

For details, refer to the "How we measure and report our business segments" section of our Report to Shareholders. Readers are cautioned that non-GAAP measures do not have any standardized meanings prescribed by GAAP and therefore are unlikely to be comparable to similar measures disclosed by other companies.

Adjusted basis measures

Adjusted basis measures such as adjusted net income available to common shareholders, adjusted diluted earnings per share (EPS) and adjusted ROE are calculated by adding back to net income the after-tax amount of amortization of intangibles (excluding amortization of software), any goodwill impairment, the dilutive impact of exchangeable shares, and other significant non-recurring items.

Adjusted efficiency ratio, operating leverage, Non-interest expense growth and revenue growth

The ratio and calculations are adjusted to exclude specified items and the change in fair value backing our policyholder liabilities from revenue (adjusted total revenue) and revenue growth. Refer to 'Glossary' for the definition of the efficiency ratio, operating leverage, Non-interest expense growth and revenue growth. For further details on adjusted total revenue and adjusted efficiency ratio see our Report to Shareholders.

Effective tax rate (teb)

Effective tax rate (teb) is calculated using the income tax expense for the period adjusted for the teb amount divided by the net income before tax for the period also adjusted for the teb amount. For teb, refer to Glossary section, following.

Net income available to common shareholders excluding the after-tax effect of amortization of other intangibles

Net income available to common shareholders with the after-tax effect of amortization of other intangibles added back.

Return on Tangible Common Equity (ROTCE)

Net income available to shareholders excluding the after-tax impact of amortization and write down of other intangibles (excluding software) and goodwill divided by average tangible common equity. ROTCE is based on actual balances of average tangible common equity before rounding.

Tangible common equity

Common equity excluding goodwill and other intangibles (excluding software) net of deferred tax.

Glossary

Assets under administration (AUA)

Assets administered by us, which are beneficially owned by clients. Services provided in respect of assets under administration are of an administrative nature, including safekeeping, collecting investment income, settling purchase and sale transactions, and record keeping.

Assets under management (AUM)

Assets managed by us, which are beneficially owned by clients. Services provided in respect of assets under management include the selection of investments and the provision of investment advice. We have assets under management that are also administered by us and included in assets under administration.

Attributed capital

We attributed capital based on the Basel III regulatory capital requirements and economic capital.

Average Balances (assets, loans and acceptances, deposits, risk capital etc)

Calculated using methods intended to approximate the average of the daily balances for the period, as applicable.

Average common equity

Calculated using methods intended to approximate the average of the daily balances for the period. For the business segments, calculated using methods intended to approximate the average of the daily attributed capital for the period.

Average earning assets, net

Average earning assets include interest-bearing deposits with other banks, securities, net of applicable allowance, assets purchased under reverse repurchase agreements and securities borrowed, loans, net of allowance, cash collateral and margin deposits. Insurance assets, and all other assets not specified are excluded. The averages are based on the daily balances for the period.

Book value per share

Common equity divided by Common shares outstanding.

Capital charge

Calculated by multiplying the cost of capital by the amount of average common equity. The cost of capital is a proxy for the after-tax return that we estimate to be required by shareholders for the use of their capital.

Capital ratios

Capital ratios are calculated using OSFI's CAR guideline.

Common equity

Common equity includes common shares, common treasury shares, retained earnings and other components of equity.

Common Equity Tier 1 ratio

Common Equity Tier 1 (CET1) capital mainly consists of common shares, retained earnings and other components of equity and other items. Regulatory adjustments include deductions of goodwill and other intangibles, certain deferred tax assets, defined benefit pension fund assets, investments in banking, financial and insurance entities, the shortfall of provisions to expected losses and other deductions. CET1 ratio is calculated by dividing CET1 capital by risk-weighted assets, in accordance with OSFI's CAR guideline.

Diluted EPS

Diluted EPS is net income attributable to common shareholders divided by the average diluted shares outstanding. Both net income and number of shares outstanding have been adjusted for the impact of exchangeable shares.

Dividend payout ratio

Common dividends as a percentage of net income available to common shareholders.

Dividend yield

Dividends per common share divided by the average of the high and low share prices in the relevant period.

Efficiency ratio

Non-interest expense as a percentage of total revenue. For adjusted efficiency ratio refer to the Non-GAAP measures on page 36.

Goodwill and intangibles

Goodwill represents the excess of the price paid for the business acquired over the fair value of the net identifiable assets acquired. An intangible asset is an identifiable non-monetary asset without physical substance.

Insurance Assets

Comprised of all assets related to the Insurance business.

Market capitalization

End of period common shares outstanding multiplied by the closing common share price on the Toronto Stock Exchange.

Market price to book value

Closing share price divided by book value per share.

Net impaired loans and acceptances

Gross impaired loans and acceptances less the associated allowance for credit losses on impaired loans by portfolio.

Net interest margin (NIM) (average assets)

Net interest income as a percentage of total average assets.

Net interest margin (NIM) (average earning assets, net)

Net interest income as a percentage of total average earning assets, net.

NIM (total average assets) excluding trading assets, trading net interest income and insurance assets

Net Interest Income less trading net interest income divided by total average assets less average trading and insurance assets.

Net write-offs

Gross write-offs less recoveries of amounts previously written off.

Non-interest expense Growth

The growth rate is calculated based on Non-interest expense in the same period a year ago. For adjusted Non-interest expense growth refer to the Non-GAAP measures on page 36.

Operating leverage

The difference between our revenue growth rate and non-interest expense growth rate. For adjusted operating leverage ratio, refer to the Non-GAAP measures on page 36.

Related loans and acceptances

Loans gross of ACL plus acceptances gross of ACL.

Return on assets (ROA)

Net income as a percentage of average assets.

Return on common equity (ROE)

Business segment return on equity is calculated as net income available to common shareholders divided by Average attributed capital for the period and using methods that are intended to approximate the average of the daily balances for the period. Corporate Support also includes average unattributed capital. ROE is based on actual balances of average common equity before rounding.

Return on risk capital (RORC)

Net income available to common shareholders divided by average risk capital. Business segment RORC is calculated as net income available to common shareholders divided by average risk capital for the period. RORC is based on actual balances of average common equity before rounding.

Return on risk-weighted assets

Net income as a percentage of average risk-weighted assets.

Revenue Growth

The growth rate is calculated based on revenue in the same period a year ago. For adjusted revenue growth, refer to the Non-GAAP measures on page 36.

Risk capital

Risk capital is attributed capital excluding goodwill and other intangibles.

Risk-weighted assets (RWA)

RWA represents assets adjusted by a regulatory risk-weight factor to reflect the riskiness of on and off-balance sheet exposures. Certain assets are not risk-weighted, but deducted from capital. RWA calculation is defined by OSFI CAR guidelines. While the majority of our credit risk exposures are reported under the Basel III IRB Approach for regulatory capital purposes, certain portfolios continue to use the Basel III Standardized Approach (SA) for credit risk. For market risk RWA, we use both Internal Models-based and Standardized Approaches. We use the Standardized Approach for operational risk RWA.

Taxable equivalent basis (teb)

Income from certain specified tax-advantaged sources is increased to a level that would make it comparable to income from taxable sources. There is an offsetting adjustment in the tax provision, thereby generating the same after-tax net income. We record teb adjustments in Capital Markets and record elimination adjustments in Corporate Support.

Total trading revenue

Total trading revenue is comprised of trading related revenue recorded in Net interest income and Non-interest income.

Trading Assets

Include Trading securities, Assets purchased under reverse repurchase agreements and securities borrowed and Derivatives.

Unattributed capital

Unattributed capital represents common equity in excess of common equity attributed to our business segments and is reported in the Corporate Support segment.

n.a.

Not applicable.

Sector definitions

Agriculture

This sector group consists of: i) Agricultural Services and Wholesale, and ii) Farming (livestock, fishing, crops).

Automotive

This sector group consists of: i) Automotive Captive Finance, ii) Automotive Manufacturers and Suppliers, and iii) Automotive Wholesale, Sales and Services.

Banking

This sector group consists of: i) Personal and commercial banking institutions, ii) Credit unions, iii) Brokers and Dealers, iv) Consumer and Commercial Finance, and v) Credit intermediation activities.

Consumer discretionary

This sector group consists of: i) Durable Consumer Goods, ii) Hotels, iii) Recreation, iv) Restaurants, v) Retail, and vi) Textiles & Apparel.

Consumer staples

This sector group consists of: i) Food and Beverage, ii) Medical Equipment, iii) Pharmaceuticals, and iv) Tobacco.

Oil and gas

This sector group consists of: i) Oil & Gas - Drilling and Services, ii) Oil & Gas - Exploration and Production, iii) Oil and Gas – Integrated, and iv) Oil & Gas - Refining, Marketing and Distribution.

Financial services

This sector group is comprised of: i) Funds and Trusts, ii) Hedge Funds, and iii) Insurance.

Financing products

This sector group consists of: i) Asset Backed Securities for Consumer Products (such as auto, cards, student loan and others) and Commercial products (such as trade receivables), ii) Mortgage Backed Securities, iii) Collateralized Obligations, and iv) Other.

This sector includes liquidity lines and other exposures to RBC sponsored conduits issued by third parties.

Forest products

This sector group consists of: i) Pulp, Paper and Sawmills, and ii) Wholesale Lumber and Construction Material.

Governments

This sector group consists of: i) Federal Governments, ii) Central Banks, iii) Provincial Governments, iv) Municipal Governments, and v) Other Government Affiliated Entities.

Industrial products

This sector group consists of: i) Building Materials, ii) Chemicals, iii) Glass, Rubber, and Plastics, iv) Heavy and Farm Equipment, v) Machinery and Equipment, vi) Metal Products, and vii) Paper and Packaging.

Information technology

This sector group is consists of: i) Computer Hardware and Software, and ii) Communication Equipment and Semiconductors.

Investments

This sector group consists of: i) High Net Worth Individuals, ii) Holding Companies, and iii) Conglomerates.

Mining and metals

This sector group consists of: companies that mine metals such as i) Steel, ii) Gold, iii) Base Metals, and iv) Other mined commodities.

Public works and infrastructure

This sector group consists of: i) Companies that build infrastructure which includes highways, bridges, tunnels, pipes, and sewer construction, and ii) Project Engineering Services Firms.

Real estate and related

This sector group consists of: i) Agents and Services, ii) Commercial Real Estate, and iii) Contractors.

Other services

This sector group consists of: i) Health Services, ii) Business Services, iii) Educational Services, iv) General Services, v) Non-Profit Organizations, and vi) Social Services.

Telecommunication and Media

This sector group consists of: i) Media (radio, film, TV), ii) Publishing, and iii) Telecommunication and Cable.

Transportation

This sector group consists of: i) Air Transport, ii) Ground Transport, iii) Marine Transport, and iv) Rail Transport.

Utilities

This sector group consists of: i) Electric Utilities, ii) Midstream, iii) Natural Gas Distribution, and iv) Pipelines.

Other

The Not Elsewhere Classified sector group includes i) Not Elsewhere Classified, and ii) Other.