



Royal Bank of Canada first quarter 2020 results

All amounts are in Canadian dollars and are based on financial statements prepared in compliance with International Accounting Standard 34 Interim Financial Reporting, unless otherwise noted.

Net Income	Diluted EPS ⁽¹⁾	ROE ⁽²⁾	CET1 Ratio
\$3.5 Billion	\$2.40	17.6%	12.0%
Record earnings	Strong 12% growth YoY	Balanced capital deployment	Robust capital levels

TORONTO, February 21, 2020 — Royal Bank of Canada (RY on TSX and NYSE) today reported net income of \$3,509 million for the quarter ended January 31, 2020, up \$337 million or 11% from the prior year, with strong diluted EPS growth of 12%. Results were driven by record earnings in Cápital Markets, as well as by strong earnings grówth in Personal & Commercial Banking reflecting continued robust volume growth in our Canadian Banking franchise. Solid earnings growth in Wealth Management and Insurance also contributed to the increase. These factors were partially offset by lower results in Investor & Treasury Services.

Compared to last quarter, net income was up \$303 million with higher results in Capital Markets, Investor & Treasury Services, Personal & Q4 2019 results included a gain on the sale of the private debt business of BlueBay (\$134 million after-tax) in Wealth Management, which was largely offset by higher severance and related costs (\$83 million after-tax) associated with the repositioning of our Investor & Treasury Services business, as well as by an unfavourable accounting adjustment (\$41 million after-tax) in Corporate Support.

Results this quarter also reflect lower provisions for credit losses (PCL), with a total PCL on loans ratio of 26 basis points (bps). PCL on impaired loans ratio of 21 bps improved 6 bps from last quarter, due to lower provisions on impaired loans in Personal & Commercial Banking and Wealth Management. Our capital position remained robust, with a Common Equity Tier 1 (CET1) ratio of 12.0%. In addition, today we announced an increase to our quarterly dividend of \$0.03 or 3% to \$1.08 per share.

"We had a strong start to the year with earnings growth of 11% year-over-year. These results reflect the underlying strength of our diversified business mix, our focused strategy, and our colleagues' unwavering commitment to creating more value for clients as we position the bank for the future. In addition to delivering record earnings this quarter, we are pleased to increase our quarterly dividend by three per cent. Against the uncertain macroeconomic backdrop, we remain focused on prudently managing our risks, leveraging our scale and competitive position, and balancing our investments in technology and talent for long-term, sustainable growth.

- Dave McKay, RBC President and Chief Executive Officer

Q1 2020 Compared to Q1 2019	 Net income of \$3,509 million Diluted EPS⁽¹⁾ of \$2.40 ROE⁽²⁾ of 17.6% CET1 ratio of 12.0% 	↑ 11% ↑ 12% ↑ 90 bps ↑ 60 bps
Q1 2020 Compared to Q4 2019	 Net income of \$3,509 million Diluted EPS⁽¹⁾ of \$2.40 ROE⁽²⁾ of 17.6% CET1 ratio of 12.0% 	<pre></pre>

Earnings per share (EPS).

Return on Equity (ROE). This measure does not have a standardized meaning under GAAP. For further information, refer to the Key performance and non-GAAP measures (2)section of this Q1 2020 Report to Shareholders.

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Management's Discussion and Analysis

Management's Discussion and Analysis (MD&A) is provided to enable a reader to assess our results of operations and financial condition for the three month period ended or as at January 31, 2020, compared to the corresponding period in the prior fiscal year and the three month period ended October 31, 2019. This MD&A should be read in conjunction with our unaudited Interim Condensed Consolidated Financial Statements for the quarter ended January 31, 2020 (Condensed Financial Statements) and related notes and our 2019 Annual Report. This MD&A is dated February 20, 2020. All amounts are in Canadian dollars, unless otherwise specified, and are based on financial statements prepared in accordance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB), unless otherwise noted.

Additional information about us, including our 2019 Annual Information Form, is available free of charge on our website at rbc.com/investorrelations, on the Canadian Securities Administrators' website at sedar.com and on the EDGAR section of the United States (U.S.) Securities and Exchange Commission's (SEC) website at sec.gov.

Information contained in or otherwise accessible through the websites mentioned herein does not form part of this report. All references in this report to websites are inactive textual references and are for your information only.

Caution regarding forward-looking statements

From time to time, we make written or oral forward-looking statements within the meaning of certain securities laws, including the "safe harbour" provisions of the *United States Private Securities Litigation Reform Act of 1995* and any applicable Canadian securities legislation. We may make forward-looking statements in this Q1 2020 Report to Shareholders, in other filings with Canadian regulators or the SEC, in other reports to shareholders, and in other communications. Forward-looking statements in this document include, but are not limited to, statements relating to our financial performance objectives, vision and strategic goals, the Economic, market, and regulatory review and outlook for Canadian, U.S., European and global economies, the regulatory environment in which we operate, and the risk environment including our liquidity and funding risk, and includes our President and Chief Executive Officer's statements. The forward-looking information contained in this document is presented for the purpose of assisting the holders of our securities and financial analysts in understanding our financial position and results of operations as at and for the periods ended on the dates presented, as well as our financial performance objectives, vision and strategic goals, and may not be appropriate for other purposes. Forward-looking statements are typically identified by words such as "believe", "expect", "foresee", "forecast", "anticipate", "intend", "estimate", "goal", "plan" and "project" and similar expressions of future or conditional verbs such as "will", "may", "should", "could" or "would".

By their very nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties, which give rise to the possibility that our predictions, forecasts, projections, expectations or conclusions will not prove to be accurate, that our assumptions may not be correct and that our financial performance objectives, vision and strategic goals will not be achieved. We caution readers not to place undue reliance on these statements as a number of risk factors could cause our actual results to differ materially from the expectations expressed in such forward-looking statements. These factors – many of which are beyond our control and the effects of which can be difficult to predict – include: credit, market, liquidity and funding, insurance, operational, regulatory compliance, strategic, reputation, legal and regulatory environment, competitive and systemic risks and other risks discussed in the risk sections of our 2019 Annual Report and the Risk management section of this Q1 2020 Report to Shareholders; including information technology and cyber risk, privacy, data and third party related risks, geopolitical uncertainty, Canadian housing and household indebtedness, regulatory changes, digital disruption and innovation, climate change, the business and economic conditions in the geographic regions in which we operate, the effects of changes in government fiscal, monetary and other policies, tax risk and transparency, and environmental and social risk.

We caution that the foregoing list of risk factors is not exhaustive and other factors could also adversely affect our results. When relying on our forward-looking statements to make decisions with respect to us, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. Material economic assumptions underlying the forward-looking statements contained in this Q1 2020 Report to Shareholders are set out in the Economic, market and regulatory review and outlook section and for each business segment under the Strategic priorities and Outlook headings in our 2019 Annual Report, as updated by the Economic, market and regulatory review and outlook section of this Q1 2020 Report to Shareholders. Except as required by law, we do not undertake to update any forward-looking statement, whether written or oral, that may be made from time to time by us or on our behalf.

Additional information about these and other factors can be found in the risk sections of our 2019 Annual Report and the Risk management section of this Q1 2020 Report to Shareholders.

Overview and outlook

About Royal Bank of Canada

Royal Bank of Canada is a global financial institution with a purpose-driven, principles-led approach to delivering leading performance. Our success comes from the 85,000+ employees who bring our vision, values and strategy to life so we can help our clients thrive and communities prosper. As Canada's biggest bank, and one of the largest in the world based on market capitalization, we have a diversified business model with a focus on innovation and providing exceptional experiences to our 17 million clients in Canada, the U.S. and 34 other countries. Learn more at rbc.com.

Selected financial and other highlights										
		As at or	for th	ne three months	s end	ed	For the three m			is ended
(Millions of Canadian dollars, except per share, number of and percentage amounts) (1)		January 31 2020		October 31 2019		January 31 2019	¢	Q1 2020 vs. Q4 2019	Q	1 2020 vs. Q1 2019
Total revenue Provision for credit losses (PCL) Insurance policyholder benefits, claims and acquisition expense (PBCAE) Non-interest expense Income before income taxes	\$	12,836 419 1,614 6,378 4,425	\$	11,370 499 654 6,319 3,898	\$	11,589 514 1,225 5,912 3,938	\$	1,466 (80) 960 59 527	\$	1,247 (95 389 466 487
Net income	\$	3,509	\$	3,206	\$	3,172	\$	303	\$	337
Segments – net income Personal & Commercial Banking Wealth Management Insurance Investor & Treasury Services Capital Markets Corporate Support Net income	\$	1,686 623 181 143 882 (6) 3,509	\$	1,618 729 282 45 584 (52) 3,206	\$	1,571 597 166 161 653 24 3,172	\$	68 (106) (101) 98 298 46 303	\$	115 26 15 (18 229 (30 337
Selected information		<u> </u>				· ·				
Earnings per share (EPS) – basic – diluted Return on common equity (ROE) (2) (3) Average common equity (2) Net interest margin (NIM) – on average earning assets (4) PCL on loans as a % of average net loans and	\$ \$	2.41 2.40 17.6% 77,850 1.59%	\$ \$	2.19 2.18 16.2% 76,600 1.60%	\$ \$	2.15 2.15 16.7% 73,550 1.60%	\$ \$	0.22 0.22 140 bps 1,250 (1) bps	\$ \$	0.26 0.25 90 bps 4,300 (1) bps
acceptances PCL on performing loans as a % of average net loans and		0.26%		0.32%		0.34%		(6) bps		(8) bps
acceptances PCL on impaired loans as a % of average net loans and		0.05%		0.05%		0.06%		- bps		(1) bps
acceptances Gross impaired loans (GIL) as a % of loans and acceptances		0.21% 0.45%		0.27% 0.46%		0.28% 0.46%		(6) bps (1) bps 200 bps		(7) bps (1) bps
Liquidity coverage ratio (LCR) (5) Capital ratios and Leverage ratio		129%		127%		128%		200 bps		100 bps
Common Equity Tier 1 (CET1) ratio Tier 1 capital ratio Total capital ratio Leverage ratio		12.0% 13.1% 14.9% 4.2%		12.1% 13.2% 15.2% 4.3%		11.4% 12.7% 14.5% 4.3%		(10) bps (10) bps (30) bps (10) bps		60 bps 40 bps 40 bps (10) bps
Selected balance sheet and other information (6) Total assets (7) Securities, net of applicable allowance Loans, net of allowance for loan losses Derivative related assets Deposits (4) Common equity (7) Total capital risk-weighted assets Assets under management (AUM) Assets under administration (AUA) (8)	\$	1,476,304 266,667 629,940 93,982 902,284 78,256 523,725 799,900 5,723,700	\$	1,428,935 249,004 618,856 101,560 886,005 77,816 512,856 762,300 5,678,000	\$	1,366,216 235,832 589,820 84,816 851,679 74,123 508,512 688,000 5,363,900	\$	47,369 17,663 11,084 (7,578) 16,279 440 10,869 37,600 45,700	\$	110,088 30,835 40,120 9,166 50,605 4,133 15,213 111,900 359,800
Common share information Shares outstanding (000s) – average basic – average diluted – end of period Dividends declared per common share Dividend yield (9) Dividend payout ratio Common share price (RY on TSX) (10) Market capitalization (TSX) (10)	\$ \$	1,427,599 1,433,060 1,423,212 1.05 4.0% 44% 104.58 148,840	\$ \$	1,432,685 1,438,257 1,430,096 1.05 4.0% 48% 106.24 151,933	\$ \$	1,437,074 1,443,195 1,435,073 0,98 4,1% 45% 100.02 143,536	\$ \$	(5,086) (5,197) (6,884) - bps (400) bps (1.66) (3,093)	\$ \$	(9,475 (10,135 (11,861 0.07 (10) bps (100) bps 4.56 5,304
Business information (number of) Employees (full-time equivalent) (FTE) Bank branches Automated teller machines (ATMs)		82,491 1,330 4,619		82,801 1,327 4,600		82,108 1,334 4,568		(310) 3 19		383 (4 51
Period average US\$ equivalent of C\$1.00 (11) Period-end US\$ equivalent of C\$1.00	\$ \$	0.760 0.756	\$ \$	0.755 0.759	\$ \$	0.749 0.761	\$ \$	0.005 (0.003)	\$ \$	0.011 (0.005

(1) Effective November 1, 2019, we adopted IFRS 16 Leases. Results from periods prior to November 1, 2019 are reported in accordance with IAS 17 Leases in this Q1 2020 Report to Shareholders. For further details on the impacts of the adoption of IFRS 16 including the description of accounting policies selected, refer to Note 2 of our Condensed Financial Statements.

(2)

(3)

Average amounts are calculated using methods intended to approximate the average of the daily balances for the period. This includes Average common equity used in the calculation of ROE. For further details, refer to the Key performance and non-GAAP measures section. These measures may not have a standardized meaning under generally accepted accounting principles (GAAP) and may not be comparable to similar measures disclosed by other financial institutions. For further details, refer to the Key performance and non-GAAP measures section. Commencing Q4 2019, the interest component and the accrued interest payable recorded on certain deposits carried at Fair Value Through Profit and Loss (FVTPL) previously presented in trading revenue and deposits, respectively, are presented in net interest income and other liabilities, respectively. Comparative amounts have been reclassified to (4) conform with this presentation.

LCR is the average for the three months ended for each respective period and is calculated in accordance with the Office of the Superintendent of Financial Institutions' (OSFI) Liquidity Adequacy Requirements (LAR) guideline. For further details, refer to the Liquidity and funding risk section. (5) Represents period-end spot balances.

(6)(7) Effective Q4 2019, the transition adjustment related to the adoption of IFRS 15 Revenue from Contracts with Customers was revised. The comparative amounts have been

revised from those previously presented. AUA includes \$15.4 billion and \$7.8 billion (October 31, 2019 – \$15.5 billion and \$8.1 billion; January 31, 2019 – \$16.6 billion and \$8.5 billion) of securitized residential mortgages and (8)

credit card loans, respectively. Defined as dividends, respectively. Defined as dividends per common share divided by the average of the high and low share price in the relevant period. Based on TSX closing market price at period-end. Average amounts are calculated using month-end spot rates for the period. (9) (10)

(11)

Economic, market and regulatory review and outlook – data as at February 20, 2020

The predictions and forecasts in this section are based on information and assumptions from sources we consider reliable. If this information or these assumptions are not accurate, actual economic outcomes may differ materially from the outlook presented in this section.

Economic and market review and outlook

Canada

The Canadian economy is expected to have grown by a modest 0.3%¹ in the final calendar quarter of 2019, down from an already below-trend pace of 1.3%¹ in the prior calendar quarter. The slowdown partially reflects transitory factors, including labour and transportation disruptions. However, the underlying pace of growth also appears to have slowed somewhat and job growth was less robust in the last calendar quarter of 2019. While recent indicators suggest global growth has stabilized albeit at a slower pace alongside easing trade tensions, Canada's manufacturing sector continues to soften and business investment is likely to remain modest. Additional transitory factors in the first calendar quarter of 2020, such as reduced rail transportation services, will offset some of the rebound from the previous calendar quarter's transitory factors. Lower mortgage rates and relatively strong population growth continue to support housing, however, elevated household debt levels continue to restrain consumer spending. We expect only a moderate rebound in GDP growth in the first calendar quarter of 2020. The Bank of Canada (BoC) has held its overnight rate steady at 1.75% for fifteen consecutive months but indicated the possibility of a rate cut if growth remains slow.

U.S.

The U.S. economy grew at a healthy 2.1%¹ in the final calendar quarter of 2019, matching the prior calendar quarter's increase. Labour markets and consumer spending remain solid, and housing activity has picked up amid lower interest rates. Although business investment and industrial production have been soft, recent easing in trade tensions, including the phase one trade agreement between the U.S. and China, pending ratification of the Canada-United States-Mexico Agreement (CUSMA), as well as modest improvement in business sentiment, suggest scope for improvement in the coming quarters. We expect U.S. GDP will grow at a trend-like pace in the first calendar quarter of 2020. After cutting its benchmark interest rate three times in calendar 2019, the Federal Reserve (Fed) is expected to hold rates steady throughout calendar 2020.

Europe

Euro area GDP growth slowed to 0.1% in the final calendar quarter of 2019 following a 0.3% increase in the previous calendar quarter. Both the French and Italian economies contracted at the end of calendar 2019 and survey data show some improvement in the manufacturing sector and stabilization in the services industries. GDP growth is expected to return closer to its longer-term trend in calendar 2020, supported by accommodative monetary policy from the European Central Bank that is expected to remain in place throughout the year. The U.K. left the European Union (EU) on January 31, 2020 but will maintain full access to the single market during a transition period that is set to continue until the end of calendar 2020. Less near-term concern about a no-deal Brexit has boosted business sentiment, though U.K. GDP growth remained soft in the final calendar quarter of 2019. The Bank of England held interest rates steady in January, with the expectation that GDP growth will pick up in early 2020.

Financial markets

Concerns about the economic impact of the COVID-19 outbreak have pushed government bond yields lower, weighed on equity markets in Asia and commodity prices have also declined amid demand concerns. Government bond yields are expected to increase when COVID-19 fears fade, but geopolitical risks, ongoing trade tensions and indications that monetary policy will remain stimulative will likely prevent a more substantial increase in yields. The increase in oil prices in early-calendar 2020 due to U.S.-Iran tensions was not sustained.

Regulatory environment

We continue to monitor and prepare for regulatory developments and changes in a manner that seeks to ensure compliance with new requirements while mitigating any adverse business or financial impacts. Such impacts could result from new or amended laws and regulations and the expectations of those who enforce them. A high level summary of the key regulatory changes that have the potential to increase or decrease our costs and the complexity of our operations is included in the Legal and regulatory environment risk section of our 2019 Annual Report, as updated below.

Global uncertainty

Despite easing of trade tensions, trade policy and geopolitical tensions continue to pose risks to the global economic outlook. In January 2020, the International Monetary Fund further lowered its 2020 and 2021 global growth projections amid threats related to global trade and tensions in the Middle East. On January 31, 2020, the U.K. withdrew from the EU and entered into a transition period during which time the two parties will be negotiating their trade and security agreement before the December 31, 2020 deadline. Both the U.S. and Mexico have ratified CUSMA. After its ratification by Canada, CUSMA will help reduce lingering uncertainty about trade within North America. In January 2020, the U.S. and China agreed to a phase one deal which, among other provisions will provide relief on some tariffs; however, remaining tariffs may continue to pressure trade activity and the broader U.S.-China relationship. Concerns about the impact of the COVID-19 outbreak on the global economy amid disruptions in world-wide trades and supply chains has weighed on global markets. The global financial markets are also

vulnerable to rising tensions between the U.S. and the Middle East and could result in increased market volatility and/or higher commodity prices. Our diversified business model, as well as our product and geographic diversification, continue to help mitigate the risk of global uncertainty.

Canadian benchmark rate for qualifying insured mortgages

On February 18, 2020, the Department of Finance Canada announced changes to the minimum qualifying rate for insured mortgages. As a result of a review conducted by the federal financial agencies, it was concluded that the minimum qualifying benchmark rate should be more responsive to changes in market conditions. Effective April 6, 2020, the new benchmark rate will be the weekly median 5-year fixed insured mortgage rate plus 2%, compared to the current benchmark rate of the five-year fixed rate posted by the Domestic Systemically Important Banks (D-SIBs). We are currently assessing the impacts and we will continue to monitor for any further developments, including any future changes to the benchmark rate for uninsured mortgages.

Client focused reforms

The Canadian Securities Administrators (CSA) published amendments to National Instrument 31-103 to implement the Client Focused Reforms (Reforms), which are intended to increase the standard of conduct required for Canadian securities registrants. The Reforms enhance core requirements relating to conflicts of interest, suitability, know-your-product and knowyour-client requirements, and also introduce new requirements relating to relationship disclosure, training and recordkeeping. The changes come into effect in two phases: the first phase relating to conflicts of interest and the related disclosure requirements comes into effect on December 31, 2020, and the second phase relating to the remaining requirements, on December 31, 2021. The requirements will primarily impact our Personal & Commercial Banking and Wealth Management platforms. We do not anticipate any significant challenges in meeting these requirements by the effective dates.

United States regulatory initiatives

Policymakers continue to evaluate and implement reforms to various U.S. financial regulations, which could result in either expansion of or reductions to U.S. regulatory requirements and associated changes in compliance costs. In January 2020, the Fed finalized the *Control and Divestiture Proceedings* rule which is intended to clarify its process for determining when an entity is under control of a bank holding company and is effective on April 1, 2020. The rule is intended to simplify and provide greater transparency for determining control of a banking organization by establishing a comprehensive framework to determine when a company controls a bank or a bank controls a company. We are currently assessing the impacts of the rule and we do not anticipate any significant challenges in meeting these rules by the effective date.

U.K. and European regulatory reform

In addition to the implications from the U.K.'s withdrawal from the EU, other forthcoming regulatory initiatives include the EU's published regulations on Sustainability-Related Disclosures which will require financial services firms to disclose their approaches to considering environmental, social and governance factors as part of their advice and investment decision process. These requirements are effective on March 10, 2021 and we are currently assessing the impact on adoption.

For a discussion on risk factors, including our framework and activities to manage these risks and other regulatory developments which may affect our business and financial results, refer to the Risk management – Top and emerging risks and Legal and regulatory environment risk sections of our 2019 Annual Report and the Risk and Capital management sections of this Q1 2020 Report to Shareholders.

Financial performance

Overview

Q1 2020 vs. Q1 2019

Net income of \$3,509 million was up \$337 million or 11% from a year ago. Diluted earnings per share (EPS) of \$2.40 was up \$0.25 or 12% and return on common equity (ROE) of 17.6% was up 90 bps from 16.7% last year. Our Common Equity Tier 1 (CET1) ratio of 12.0% was up 60 bps from a year ago.

Our results reflected strong earnings growth in Capital Markets and Personal & Commercial Banking, and solid earnings in Wealth Management and Insurance, partially offset by lower results in Investor & Treasury Services.

Capital Markets results increased primarily due to higher revenue in Global Markets and Corporate and Investment Banking, as well as lower PCL. These factors were partially offset by higher compensation on improved results and a higher effective tax rate, largely reflecting changes in earnings mix.

Personal & Commercial Banking earnings were up mainly due to average volume growth of 8% in Canadian Banking and higher balances driving higher mutual fund distribution fees, partially offset by lower spreads and an increase in technology and related costs. The prior year also included a write-down of deferred tax assets resulting from a change in the corporate tax rate in Barbados.

Wealth Management results were up primarily due to an increase in average fee-based client assets and higher transaction volumes. These factors were partially offset by higher variable compensation commensurate with revenue growth, as well as higher technology and staff-related costs. The prior year was also impacted by a favourable accounting adjustment related to Canadian Wealth Management.

Insurance results increased mainly due to new longevity reinsurance contracts, partially offset by the lower impact from reinsurance contract renegotiations.

Investor & Treasury Services earnings decreased primarily due to lower client deposit margins and lower revenue from our asset services business.

For further details on our business segment results and CET1 ratio, refer to the Business segment results and Capital management sections, respectively.

Q1 2020 vs. Q4 2019

Net income of \$3,509 million was up \$303 million or 9% from the prior quarter. Diluted EPS of \$2.40 was up \$0.22 or 10% and ROE of 17.6% was up 140 bps. Our CET1 ratio of 12.0% was down 10 bps.

Our results reflected strong earnings growth in Capital Markets, and higher results in Investor & Treasury Services, Personal & Commercial Banking and Corporate Support, partially offset by lower earnings in Wealth Management and Insurance.

Capital Markets earnings increased primarily due to higher revenue in Global Markets and Corporate and Investment Banking. These factors were partially offset by higher compensation on improved results and a higher effective tax rate, largely reflecting changes in earnings mix.

Investor & Treasury Services earnings increased primarily due to severance and related costs associated with the repositioning of the business in the prior quarter.

Personal & Commercial Banking results were up mainly due to lower PCL and higher card service revenue.

Wealth Management earnings decreased mainly due to the gain on sale of the private debt business of BlueBay in the prior quarter.

Insurance earnings were down primarily due to the impact of lower favourable investment-related experience, new longevity reinsurance contracts and reinsurance contract renegotiations.

Corporate Support net income was \$6 million in the current quarter, largely reflecting residual unallocated costs and net unfavourable tax adjustments, partially offset by asset/liability management activities. Net loss was \$52 million in the prior quarter largely due to the impact of an unfavourable accounting adjustment.

Impact of foreign currency translation

The following table reflects the estimated impact of foreign currency translation on key income statement items:

		For the three n	nonths	ended
(Millions of Canadian dollars, except per share amounts)	Q	1 2020 vs. Q1 2019	Q1	2020 vs. Q4 2019
Increase (decrease):				
Total revenue	\$	(65)	\$	5
PCL		(1)		1
PBCAE		_		-
Non-interest expense		(44)		7
Income taxes		(2)		-
Net income		(18)		(3)
Impact on EPS				
Basic	\$	(0.01)	\$	-
Diluted		(0.01)		-

The relevant average exchange rates that impact our business are shown in the following table:

	For th	e three months	ended
	January 31	2019 0 0.755 0 0.605	January 31
(Average foreign currency equivalent of C\$1.00) (1)	2020	2019	2019
U.S. dollar	0.760	0.755	0.749
British pound	0.579	0.605	0.582
Euro	0.684	0.686	0.656

(1) Average amounts are calculated using month-end spot rates for the period.

	For	the three month	s ended
(Millions of Canadian dollars)	January 31 2020	October 31 2019	January 31 2019
Interest income Interest expense (1)	\$10,238 5,017	\$ 10,442 5,331	\$ 10,149 5,302
Net interest income NIM (1)	\$ 5,221 1.59%	\$ 5,111 1.60%	\$ 4,847 1.60%
Insurance premiums, investment and fee income Trading revenue (1)	\$ 1,994 458	\$ 1,153 116	
Investment management and custodial fees Mutual fund revenue Socurities brokerage commissions	1,535 946 318	1,477 932 323	1,450 873 342
Securities brokerage commissions Service charges Underwriting and other advisory fees	488 627	493 428	342 468 345
Foreign exchange revenue, other than trading Card service revenue	253	242	249
Credit fees	287 360	252 344	
Net gains on investment securities Share of profit in joint ventures and associates Other	11 22 316	16 26 457	46 15 383
Non-interest income	\$ 7,615	\$ 6,259	
Total revenue	\$12,836	\$ 11,370	\$ 11,589
Additional information Total trading revenue			
Net interest income (1) Non-interest income (1)	\$ 700 458	\$ 604 116	\$ 564 395
Total trading revenue	\$ 1,158	\$ 720	\$ 959

(1) Commencing Q4 2019, the interest component of the valuation of certain deposits carried at FVTPL previously presented in trading revenue is presented in net interest income. Comparative amounts have been reclassified to conform with this presentation.

Q1 2020 vs. Q1 2019

Total revenue increased \$1,247 million or 11% from last year, mainly due to an increase in insurance premiums, investment and fee income (insurance revenue) and higher net interest income. Higher underwriting and other advisory fees, as well as investment management and custodial fees also contributed to the increase. These factors were partially offset by the impact of foreign exchange translation which decreased total revenue by \$65 million.

Net interest income increased \$374 million or 8%, largely due to volume growth in Canadian Banking and Wealth Management and higher trading revenue in Capital Markets, as well as higher revenue from our Investor & Treasury Services business, partially offset by lower spreads in Wealth Management and Canadian Banking. The impact associated with higher revenue from our Investor & Treasury Services business was more than offset by lower related gains on non-trading derivatives in Other revenue.

NIM was down 1 bp compared to last year, mainly due to changes in average earning asset mix with volume growth primarily in reverse repos, partially offset by higher revenue from our Investor & Treasury Services business. The impact associated with higher revenue from our Investor & Treasury Services business was more than offset by lower related gains on non-trading derivatives in Other revenue.

Insurance revenue increased \$415 million or 26%, mainly reflecting the change in fair value of investments backing our policyholder liabilities and higher group annuity sales, both of which are largely offset in PBCAE. Business growth in International Insurance also contributed to the increase. These factors were partially offset by the lower impact from reinsurance contract renegotiations.

Investment management and custodial fees increased \$85 million or 6%, primarily due to higher average fee-based client assets reflecting market appreciation and net sales, partially offset by a favourable accounting adjustment in Wealth Management in the prior year.

Underwriting and other advisory fees increased \$282 million or 82%, largely due to higher M&A activity primarily in North America and higher debt origination largely in the U.S. Higher equity origination across all regions also contributed to the increase.

Q1 2020 vs. Q4 2019

Total revenue increased \$1,466 million or 13% from the prior quarter, primarily due to an increase in insurance revenue, trading revenue, and underwriting and other advisory fees. Higher net interest income also contributed to the increase. These factors were partially offset by lower other revenue.

Net interest income was up \$110 million or 2%, largely due to higher trading revenue in Capital Markets, and volume growth, partially offset by lower spreads in Canadian Banking and Wealth Management.

Insurance revenue increased \$841 million or 73%, mainly due to the change in fair value of investments backing our policyholder liabilities, higher group annuity sales and business growth, all of which are largely offset in PBCAE. These factors were partially offset by realized investment gains in the prior quarter and lower favourable reinsurance contract renegotiations.

Trading revenue increased \$342 million or 295%, primarily driven by higher fixed income and equity trading revenue in Capital Markets across most regions.

Underwriting and other advisory fees increased \$199 million or 46%, largely due to higher M&A activity primarily in North America.

Other revenue decreased \$141 million or 31%, mainly driven by the gain on sale of the private debt business of BlueBay in the prior quarter and lower net gains in our non-trading investment portfolios, partially offset by the change in the fair value of the hedges related to our U.S. share-based compensation plans, which was largely offset in Non-interest expense.

Provision for credit losses

Q1 2020 vs. Q1 2019 Total PCL in Q1 2020 was \$419 million.

PCL on loans of \$421 million decreased \$95 million, or 18% from the prior year, primarily due to lower provisions in Capital Markets and Wealth Management. The PCL on loans ratio of 26 bps improved 8 bps.

Q1 2020 vs. Q4 2019

Total PCL decreased \$80 million from the prior quarter.

PCL on loans of \$421 million decreased \$84 million, or 17% from the prior quarter, due to lower provisions in Personal & Commercial Banking and Wealth Management. The PCL on loans ratio improved 6 bps.

For further details on PCL, refer to Credit quality performance in the Credit risk section.

Insurance policyholder benefits, claims and acquisition expense (PBCAE) Q1 2020 vs. Q1 2019

PBCAE increased \$389 million or 32% from a year ago, mainly due to the change in fair value of investments backing our policyholder liabilities, higher group annuity sales, and business growth, primarily in International Insurance, all of which are largely offset in revenue. These factors were partially offset by the favourable impact of new longevity reinsurance contracts.

Q1 2020 vs. Q4 2019

PBCAE increased \$960 million from the prior quarter, mainly due to the change in fair value of investments backing our policyholder liabilities, higher group annuity sales and business growth, all of which are largely offset in revenue. The impact of longevity reinsurance contracts also contributed to the increase. These factors were partially offset by lower favourable investment-related experience.

Non-interest expense

		For the	e three months e	nded
	I	January 31	October 31	January 31
(Millions of Canadian dollars, except percentage amounts)		2020	2019	2019
Salaries	\$	1,652	\$ 1,738	\$ 1,608
Variable compensation		1,646	1,475	1,388
Benefits and retention compensation		541	445	492
Share-based compensation		221	62	155
Human resources	\$	4,060	\$ 3,720	\$ 3,643
Equipment		462	452	431
Occupancy		397	424	397
Communications		250	296	240
Professional fees		284	382	305
Amortization of other intangibles		303	309	290
Other		622	736	606
Non-interest expense	\$	6,378	\$ 6,319	\$ 5,912
Efficiency ratio (1)		49.7%	55.6%	51.0%
Efficiency ratio adjusted (2)		51.6%	55.4%	52.1%

(1) Efficiency ratio is calculated as Non-interest expense divided by Total revenue.

(2) Measures have been adjusted by excluding the change in fair value of investments backing our policyholder liabilities. These are non-GAAP measures. For further details, refer to the Key performance and non-GAAP measures section.

Q1 2020 vs. Q1 2019

Non-interest expense increased \$466 million or 8%, largely due to higher variable compensation commensurate with revenue growth and an increase in technology and related costs, including digital initiatives. The change in the fair value of our U.S. share-based compensation plans, which was largely offset in other revenue, and higher staff-related costs also contributed to the increase. These factors were partially offset by the impact of foreign exchange translation.

Our efficiency ratio of 49.7% decreased 130 bps from 51.0% last year. Excluding the change in fair value of investments backing our policyholder liabilities, our efficiency ratio of 51.6% decreased 50 bps from 52.1% last year.

Q1 2020 vs. Q4 2019

Non-interest expense increased \$59 million or 1%, mainly due to higher variable compensation on improved results and an increase in staff-related costs. The change in the fair value of our U.S. share-based compensation plans, which was largely offset in revenue, also contributed to the increase. These factors were partially offset by severance and related costs associated with the repositioning of our Investor & Treasury Services business in the prior quarter, the impact of an unfavourable accounting adjustment in Corporate Support in the prior quarter and the timing of professional fees.

Our efficiency ratio of 49.7% decreased 590 bps from 55.6% last quarter. Excluding the change in fair value of investments backing our policyholder liabilities, our efficiency ratio of 51.6% decreased 380 bps from 55.4% last quarter.

Efficiency ratio excluding the change in fair value of investments backing our policyholder liabilities is a non-GAAP measure. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section.

Income taxes

	For the t				
(Millions of Canadian dollars, except percentage amounts)	January 31 2020		January 31 2019		
Income taxes	\$ 916	\$ 692	\$ 766		
Income before income taxes	\$ 4,425	\$ 3,898	\$ 3,938		
Effective income tax rate	20.7%	17.8%	19.5%		

Q1 2020 vs. Q1 2019

Income tax expense increased \$150 million or 20% from last year, primarily due to higher income before income taxes.

The effective income tax rate of 20.7% increased 120 bps, mainly due to a decrease in income from lower tax rate jurisdictions in the current quarter and favourable tax adjustments in the prior year. These factors were partially offset by a write-down of deferred tax assets resulting from a change in the corporate tax rate in Barbados in the prior year.

Q1 2020 vs. Q4 2019

Income tax expense increased \$224 million or 32% from last quarter, primarily due to higher income before income taxes in the current quarter and higher favourable tax adjustments in the prior quarter.

The effective income tax rate of 20.7% increased 290 bps, primarily due to higher favourable tax adjustments in the prior guarter and a decrease in income from lower tax rate jurisdictions in the current guarter.

Business segment results

How we measure and report our business segments

The key methodologies and assumptions used in our management reporting framework are periodically reviewed by management to ensure they remain valid. They remain unchanged from October 31, 2019.

For further details on our key methodologies and assumptions used in our management reporting framework, refer to the How we measure and report our business segments section of our 2019 Annual Report.

Key performance and non-GAAP measures

Performance measures

Return on common equity

We measure and evaluate the performance of our consolidated operations and each business segment using a number of financial metrics, such as net income and ROE. We use ROE, at both the consolidated and business segment levels, as a measure of return on total capital invested in our business. Management views the business segment ROE measure as a useful measure for supporting investment and resource allocation decisions because it adjusts for certain items that may affect comparability between business segments and certain competitors. ROE does not have a standardized meaning under GAAP and may not be comparable to similar measures disclosed by other financial institutions. For further details, refer to the Key performance and non-GAAP measures section of our 2019 Annual Report.

The following table provides a summary of our ROE calculations:

				For the t	hree months er	nded			
				January 31				October 31	January 31
				2020				2019	2019
	Personal &			Investor &					
(Millions of Canadian dollars,	Commercial	Wealth		Treasury	Capital	Corporate			
except percentage amounts)	Banking	Management	Insurance	Services	Markets	Support	Total	Total	Total
Net income available to common									
shareholders	\$ 1,663	\$ 610	\$ 179	\$ 140	\$ 863	\$ (16)	\$ 3,439	\$ 3,137	\$ 3,096
Total average common equity (1) (2)	23,350	15,350	2,200	3,100	22,750	11,100	77,850	76,600	73,550
ROE (3)	28.3%	15.8%	32.5%	18.0%	15.1%	n.m.	17.6%	16.2%	16.7%

(1) Total average common equity represents rounded figures.

(2) The amounts for the segments are referred to as attributed capital.

(3) ROE is based on actual balances of average common equity before rounding.

n.m. not meaningful

Non-GAAP measures

We believe that certain non-GAAP measures described below are more reflective of our ongoing operating results and provide readers with a better understanding of management's perspective on our performance. These measures enhance the

comparability of our financial performance for the three months ended January 31, 2020 with the corresponding period in the prior year and the three months ended October 31, 2019. Non-GAAP measures do not have a standardized meaning under GAAP and may not be comparable to similar measures disclosed by other financial institutions.

The following discussion describes the non-GAAP measures we use in evaluating our operating results.

Efficiency ratio excluding the change in fair value of investments in Insurance

Our efficiency ratio is impacted by the change in fair value of investments backing our policyholder liabilities, which is reported in revenue and largely offset in PBCAE.

The following table provides calculations of our consolidated efficiency ratio excluding the change in fair value of investments backing our policyholder liabilities:

			For	the three months ended		
	January 31 2020			October 31 2019		January 31 2019
	Item excluded			Item excluded		Item excluded
(Millions of Canadian dollars, except percentage amounts)	Change in fair value of investments backing As reported policyholder liabilities Au	djusted	- As reported	Change in fair value of investments backing policyholder liabilities Adjusted	As reported	Change in fair value of investments backing policyholder liabilities Adjusted
Total revenue Non-interest expense	\$ 12,836 \$ (468) \$ 6,378 -	12,368 6,378	\$ 11,370 6,319	\$ 28 \$ 11,398 - 6,319	\$ 11,589 5,912	\$ (247) \$ 11,342 - 5,912
Efficiency ratio	49.7%	51.6%	55.6%	55.4%	51.0%	52.1%

Personal & Commercial Banking

	 As at or f	or the	e three month	ns en	ded
	January 31		October 31		January 31
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	2020		2019		2019
Net interest income	\$ 3,226	\$	3,238	\$	3,134
Non-interest income	1,384		1,330		1,284
Total revenue	4,610		4,568		4,418
PCL on performing assets	66		50		35
PCL on impaired assets	276		337		313
PCL	342		387		348
Non-interest expense	1,984		2,007		1,915
Income before income taxes	2,284		2,174		2,155
Net income	\$ 1,686	\$	1,618	\$	1,571
Revenue by business					
Canadian Banking	\$ 4,368	\$	4,321	\$	4,170
Caribbean & U.S. Banking	242		247		248
Selected balance sheet and other information					
ROE	28.3%		27.0%		26.6%
NIM	2.77%		2.82%		2.84%
Efficiency ratio	43.0%		43.9%		43.3%
Operating leverage	0.7%		3.7%		(0.2)%
Average total earning assets, net	\$ 463,400	\$	456,100	\$	437,100
Average loans and acceptances, net	466,800		458,900		438,100
Average deposits	413,700		405,200		382,200
AUA (1)	294,200		283,800		268,500
Average AUA	290,600		281,800		264,000
PCL on impaired loans as a % of average net loans and acceptances	0.24%		0.29%		0.28%
Other selected information – Canadian Banking					
Net income	\$ 1,624	\$	1,555	\$	1,544
NIM	2.72%		2.76%		2.79%
Efficiency ratio	41.3%		42.0%		41.6%
Operating leverage	0.7%		4.3%		(0.2)%

(1) AUA represents period-end spot balances and includes securitized residential mortgages and credit card loans as at January 31, 2020 of \$15.4 billion and \$7.8 billion, respectively (October 31, 2019 – \$15.5 billion and \$8.1 billion; January 31, 2019 – \$16.6 billion and \$8.5 billion).

Financial performance

Q1 2020 vs. Q1 2019

Net income increased \$115 million or 7% from last year, mainly due to average volume growth of 8% in Canadian Banking and higher mutual fund distribution fees, partially offset by lower spreads and an increase in technology and related costs. The prior year also included a write-down of deferred tax assets resulting from a change in the corporate tax rate in Barbados. Total revenue increased \$192 million or 4%.

Canadian Banking revenue increased \$198 million or 5% compared to last year, largely reflecting average volume growth of 7% in loans and 9% in deposits, higher balances driving higher mutual fund distribution fees and higher service charges. These factors were partially offset by lower spreads.

Caribbean & U.S. Banking revenue decreased \$6 million or 2% compared to last year.

Net interest margin was down 7 bps, mainly due to the impact of competitive pricing pressures and changes in product mix.

PCL decreased \$6 million or 2%, largely due to lower PCL on impaired assets, resulting in a decrease of 4 bps in the impaired loans ratio. This was partially offset by higher PCL on performing assets. For further details, refer to Credit quality performance in the Credit risk section.

Non-interest expense increased \$69 million or 4%, primarily attributable to an increase in technology and related costs, including digital initiatives, higher staff-related costs and higher marketing costs.

Q1 2020 vs. Q4 2019

Net income increased \$68 million or 4% from last quarter, mainly due to lower PCL and higher card service revenue.

Total revenue increased \$42 million or 1% from last quarter, mainly driven by average volume growth of 2% in Canadian Banking and higher card service revenue, partially offset by lower spreads.

Net interest margin was down 5 bps, largely due to the impact of competitive pricing pressures.

PCL decreased \$45 million or 12%, largely due to lower PCL on impaired assets, resulting in a decrease of 5 bps in the impaired loans ratio. This was partially offset by higher PCL on performing assets. For further details, refer to Credit quality performance in the Credit risk section.

Non-interest expense decreased \$23 million or 1%, largely reflecting the timing of professional fees and lower marketing costs, partially offset by higher staff-related costs.

Wealth Management

		As at or	or th	e three months	enc	led
(Millions of Canadian dollars, except number of, percentage amounts and as otherwise noted)		January 31 2020		October 31 2019		January 31 2019
Net interest income	4		\$	745	\$	744
Non-interest income						
Fee-based revenue		1,847		1,786		1,714
Transaction and other revenue Total revenue		581 3,166		656 3.187		490 2,948
PCL on performing assets		(1)		(1)		2,948
PCL on impaired assets		(1)		35		11
PCL		(2)		34		26
Non-interest expense		2,370		2,262		2,164
Income before income taxes		798		891		758
Net income	4	\$ 623	\$	729	\$	597
Revenue by business						
Canadian Wealth Management	4	\$ 843	\$	823	\$	842
U.S. Wealth Management (including City National)		1,624		1,556		1,471
U.S. Wealth Management (including City National) (US\$ millions)		1,234		1,175		1,103
Global Asset Management		594		713		543
International Wealth Management	_	105	_	95		92
Selected balance sheet and other information						
ROE		15.8%		19.5%		16.4%
NIM Des teu es serie (a)		3.17%		3.30%		3.67%
Pre-tax margin (1) Number of advisors (2)		25.2% 5,299		28.0% 5,296		25.7% 5,119
Average total earning assets, net	4		\$	89,500	\$	
Average loans and acceptances, net	-	69,600	Ŷ	66,700	Ļ	61,200
Average deposits		105,600		100,700		94,300
AUA (3)		1,106,900		1,062,200		981,400
U.S. Wealth Management (including City National) (3)		578,600		543,300		496,500
U.S. Wealth Management (including City National) (US\$ millions) (3)		437,300		412,600		378,000
AUM (3)		792,900		755,700		682,000
Average AUA		1,097,100		1,055,700		986,800
Average AUM		780,200		753,300		675,100
PCL on impaired loans as a % of average net loans and acceptances		(0.01)%		0.21%		0.07%
Estimated impact of U.S. dollar, British pound and Euro translation on	_	For the three	monl	ths ended	_	
key income statement items		Q1 2020 vs.	Q	1 2020 vs.		
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)		Q1 2019		Q4 2019		
Increase (decrease):						
Total revenue	\$	\$ (27)	\$	(2)		
PCL		-		-		
Non-interest expense		(21)		(3)		
Net income		(4)		-		
Percentage change in average U.S. dollar equivalent of C\$1.00		1%		1%		
Percentage change in average British pound equivalent of C\$1.00		(1)%		(4)%		
Percentage change in average Euro equivalent of C\$1.00	_	4%		-%		

(1) Pre-tax margin is defined as Income before income taxes divided by Total revenue.

(2) Represents client-facing advisors across all our Wealth Management businesses.

(3) Represents period-end spot balances.

Financial performance Q1 2020 vs. Q1 2019

Net income increased \$26 million or 4%, primarily due to an increase in average fee-based client assets and higher transaction volumes. These factors were partially offset by higher variable compensation commensurate with revenue growth, as well as higher technology and staff-related costs. The prior year was also impacted by a favourable accounting adjustment related to Canadian Wealth Management.

Total revenue increased \$218 million or 7%.

Canadian Wealth Management revenue increased \$1 million, primarily due to higher average fee-based client assets reflecting market appreciation and net sales, largely offset by a favourable accounting adjustment in the prior year.

U.S. Wealth Management (including City National) revenue increased \$153 million or 10%. In U.S. dollars, revenue increased \$131 million or 12%, primarily due to higher average fee-based client assets reflecting market appreciation and net sales, the change in the fair value of the hedges related to our U.S. share-based compensation plans, which was largely offset in non-interest expense and higher transaction volumes. Higher net interest income driven by average loan growth of 17%, largely offset by lower spreads, also contributed to the increase.

Global Asset Management revenue increased \$51 million or 9%, largely due to higher average fee-based assets reflecting market appreciation and net sales.

International Wealth Management revenue increased \$13 million or 14%, largely due to higher transaction volumes and increase in net interest income driven by higher spreads.

PCL decreased \$28 million primarily in U.S. Wealth Management (including City National), reflecting lower PCL on performing assets due to unfavourable macroeconomic factors in the prior year. Lower PCL on impaired assets also contributed to the decrease, resulting in an improvement of 8 bps in the impaired loans ratio. For further details, refer to Credit quality performance in the Credit risk section.

Non-interest expense increased \$206 million or 10%, primarily due to higher variable compensation commensurate with revenue growth. The change in the fair value of our U.S. share-based compensation plans, which was largely offset in revenue, higher staff-related costs in support of business growth and higher technology and related costs also contributed to the increase. These factors were partially offset by the impact of foreign exchange translation.

Q1 2020 vs. Q4 2019

Net income decreased \$106 million or 15%, mainly due to the gain on sale of the private debt business of BlueBay in the prior quarter.

Total revenue decreased \$21 million or 1%, as the change in the fair value of the hedges related to our U.S. share-based compensation plans, which was largely offset in non-interest expense, higher average fee-based client assets reflecting market appreciation and net sales, and an increase in transaction volumes were more than offset by the gain on sale of the private debt business of BlueBay in the prior quarter.

PCL decreased \$36 million, reflecting lower provisions on impaired assets in U.S. Wealth Management (including City National) driving a decrease of 22 bps in the impaired loans ratio. For further details, refer to Credit quality performance in the Credit risk section.

Non-interest expense increased \$108 million or 5%, primarily due to higher staff-related costs, and the change in the fair value of our U.S. share-based compensation plans, which was largely offset in revenue.

	As at or for t	he three mon	ths ended
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	January 31 2020	October 31 2019	January 31 2019
Non-interest income			
Net earned premiums	\$ 1,350	\$ 944	\$ 1,162
Investment income (1)	609	168	381
Fee income	35	41	36
Total revenue	1,994	1,153	1,579
Insurance policyholder benefits and claims (1)	1,535	572	1,129
Insurance policyholder acquisition expense	79	82	96
Non-interest expense	153	153	154
Income before income taxes	227	346	200
Net income	\$ 181	\$ 282	\$ 166
Revenue by business			
Canadian Insurance	\$ 1,383	\$ 609	\$ 1,039
International Insurance	611	544	540
Selected balances and other information			
ROE	32.5%	50.3%	34.7%
Premiums and deposits (2)	\$ 1,542	\$ 1,105	\$ 1,314
Fair value changes on investments backing policyholder liabilities (1)	468	(28)	247

(1) Investment income can experience volatility arising from 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 the Consolidated 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.

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

Financial performance Q1 2020 vs. Q1 2019

Insurance

Net income increased \$15 million or 9% from a year ago, mainly due to new longevity reinsurance contracts, partially offset by the lower impact from reinsurance contract renegotiations.

Total revenue increased \$415 million or 26%.

Canadian Insurance revenue increased \$344 million or 33%, primarily due to the change in fair value of investments backing our policyholder liabilities and higher group annuity sales, both of which are largely offset in PBCAE as indicated below.

International Insurance revenue increased \$71 million or 13%, mainly due to business growth, primarily in longevity reinsurance, which is largely offset in PBCAE as indicated below. This factor was, partially offset by the lower impact from reinsurance contract renegotiations.

PBCAE increased \$389 million or 32%, mainly due to the change in fair value of investments backing our policyholder liabilities, higher group annuity sales, and business growth, primarily in International Insurance, partially offset by the favourable impact of new longevity reinsurance contracts.

Non-interest expense decreased \$1 million or 1%.

Q1 2020 vs. Q4 2019

Net income decreased \$101 million or 36%, primarily due to the impact of lower favourable investment-related experience, new longevity reinsurance contracts and reinsurance contract renegotiations.

Total revenue increased \$841 million or 73%, mainly due to the change in fair value of investments backing our policyholder liabilities, higher group annuity sales and business growth, all of which are largely offset in PBCAE as indicated below. These factors were partially offset by realized investment gains in the prior quarter and lower favourable reinsurance contract renegotiations.

PBCAE increased \$960 million, mainly due to the change in fair value of investments backing our policyholder liabilities and higher group annuity sales. Business growth and the impact of new longevity reinsurance contracts also contributed to the increase. These factors were partially offset by lower favourable investment-related experience.

Non-interest expense remained consistent with prior quarter.

Investor & Treasury Services

	As at or	for th	he three months	end	ed
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	January 31 2020		October 31 2019		January 31 2019
Net interest income Non-interest income Total revenue PCL Non-interest expense	\$ 58 539 597 - 402	\$	37 529 566 (1) 508	\$	(31) 662 631 - 418
Net income before income taxes Net income	\$ 195 143	\$	59 45	\$	213 161
Selected balance sheet and other information ROE Average deposits Average client deposits Average wholesale funding deposits AUA (1) Average AUA	18.0% 174,500 57,900 116,600 4,308,200 4,286,200		4.8% 175,200 57,600 117,600 4,318,100 4,296,300	\$	17.3% 171,900 59,200 112,700 4,100,900 4,191,300

Estimated impact of U.S. dollar, British pound	For the three m	onths ended
and Euro translation on key income statement items (Millions of Canadian dollars, except percentage amounts)	Q1 2020 vs. Q1 2019	Q1 2020 vs. Q4 2019
Increase (decrease): Total revenue Non-interest expense	\$ (8) (7)	\$ 3
Net income	(*)	-
Percentage change in average U.S. dollar equivalent of C\$1.00 Percentage change in average British pound equivalent of C\$1.00 Percentage change in average Euro equivalent of C\$1.00	1% (1)% 4%	1% (4)% –%

(1) Represents period-end spot balances.

Financial performance

Q1 2020 vs. Q1 2019

Net income decreased \$18 million or 11%, primarily due to lower client deposit margins and lower revenue from our asset services business.

Total revenue decreased \$34 million or 5%, mainly due to lower client deposit revenue largely driven by margin compression reflecting spread tightening and the impact of foreign exchange translation. Lower revenue from our asset services business due to reduced client activity also contributed to the decrease.

Non-interest expense decreased \$16 million or 4%, primarily driven by the impact of foreign exchange translation and lower staff related costs largely benefitting from investment in technology initiatives.

Q1 2020 vs. Q4 2019

Net income increased \$98 million, primarily due to severance and related costs associated with the repositioning of the business in the prior quarter.

Total revenue increased \$31 million or 5%, mainly due to higher funding and liquidity revenue driven by money market opportunities in the current quarter.

Non-interest expense decreased \$106 million or 21%, largely driven by severance and related costs associated with the repositioning of the business in the prior quarter, partially offset by annual regulatory costs in the current quarter.

	As at or f	or th	e three months	s end	ed
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	January 31 2020		October 31 2019		January 31 2019
Net interest income (1) (2)	\$ 1,161	\$	1,063	\$	969
Non-interest income (1) (2)	1,387		924		1,129
Total revenue (1)	2,548		1,987		2,098
PCL on performing assets	18		18		38
PCL on impaired assets	61		60		102
PCL	79		78		140
Non-interest expense	1,435		1,308		1,230
Net income before income taxes	1,034		601		728
Net income	\$ 882	\$	584	\$	653
Revenue by business					
Corporate and Investment Banking	\$ 1,141	\$	934	\$	927
Global Markets	1,450		1,095		1,227
Other	(43)		(42)		(56)
Selected balance sheet and other information					
ROE	15.1%		10.0%		10.8%
Average total assets	\$ 716,000	\$	696,100	\$	643,700
Average trading securities	115,700		103,800		102,100
Average loans and acceptances, net	99,300		98,100		98,400
Average deposits (2)	76,500		76,800		78,100
PCL on impaired loans as a % of average net loans and acceptances	0.24%		0.24%		0.41%

(1) The taxable equivalent basis (teb) adjustment for the three months ended January 31, 2020 was \$128 million (October 31, 2019 – \$112 million; January 31, 2019 – \$107 million). For further discussion, refer to the How we measure and report our business segments section of our 2019 Annual Report.

(2) Commencing Q4 2019, the interest component and the accrued interest payable recorded on certain deposits carried at FVTPL previously presented in trading revenue and deposits, respectively, are presented in net interest income and other liabilities, respectively. Comparative amounts have been reclassified to conform with this presentation.

Financial performance

Q1 2020 vs. Q1 2019

Net income increased \$229 million or 35%, primarily due to higher revenue in Global Markets and Corporate and Investment Banking, as well as lower PCL. These factors were partially offset by higher compensation on improved results and a higher effective tax rate, largely reflecting changes in earnings mix.

Total revenue increased \$450 million or 21%.

Corporate and Investment Banking revenue increased \$214 million or 23%, mainly due to higher M&A activity primarily in North America and higher debt origination largely in the U.S. as the prior year was impacted by challenging market conditions.

Global Markets revenue increased \$223 million or 18%, mainly driven by higher fixed income trading revenue across all regions due to more favourable market conditions in the current quarter and increased client activity, partially offset by lower equity trading revenue primarily in the U.S.

Other revenue increased \$13 million largely reflecting lower residual funding costs.

PCL decreased \$61 million or 44%, largely due to lower PCL on impaired assets. The PCL on impaired loans ratio decreased 17 bps, mainly due to lower provisions taken in the current year. Lower PCL on performing assets also contributed to the decreased for the decr

to the decrease. For further details, refer to Credit quality performance in the Credit risk section.

Non-interest expense increased \$205 million or 17%, mainly due to higher compensation on improved results.

Q1 2020 vs. Q4 2019

Net income increased \$298 million or 51%, primarily due to higher revenue in Global Markets and Corporate and Investment Banking. These factors were partially offset by higher compensation on improved results and a higher effective tax rate, largely reflecting changes in earnings mix.

Total revenue increased \$561 million or 28%, mainly due to higher fixed income trading revenue across most regions and higher M&A activity primarily in North America. Higher equity trading revenue across most regions also contributed to the increase.

PCL increased \$1 million and the PCL on impaired loans ratio remained flat.

Non-interest expense increased \$127 million or 10%, mainly due to higher compensation on improved results.

Corporate Support

	Fo	For the three mon									
	January	31 Octo	ber 31	Jan	nuary 31						
(Millions of Canadian dollars)	202	0	2019		2019						
Net interest income (loss) (1)	\$ 3	8 \$	28	\$	31						
Non-interest income (loss) (1)	(11	7) ((119)		(116)						
Total revenue (1)	(7	9)	(91)		(85)						
PCL		_	1		-						
Non-interest expense	3	4	81		31						
Net income (loss) before income taxes (1)	(11	3) ((173)		(116)						
Income taxes (recoveries) (1)	(10	7) ((121)		(140)						
Net income (loss)	\$ (6) \$	(52)	\$	24						

(1) Teb adjusted.

Due to the nature of activities and consolidation adjustments reported in this segment, we believe that a comparative period analysis is not relevant. The following identifies material items affecting the reported results in each period.

Total revenue and income taxes (recoveries) in each period in Corporate Support include the deduction of the teb adjustments related to the gross-up of income from Canadian taxable corporate dividends and the U.S. tax credit investment business recorded in Capital Markets. The amount deducted from revenue was offset by an equivalent increase in income taxes (recoveries).

The teb amount for the three months ended January 31, 2020 was \$128 million, as compared to \$112 million in the prior quarter and \$107 million last year.

The following identifies the material items, other than the teb impacts noted previously, affecting the reported results in each period.

Q1 2020

Net loss was \$6 million, largely reflecting residual unallocated costs and net unfavourable tax adjustments, partially offset by asset/liability management activities.

Q4 2019

Net loss was \$52 million, largely due to the impact of an unfavourable accounting adjustment.

Q1 2019

Net income was \$24 million, largely reflecting net favourable tax adjustments.

Quarterly results and trend analysis

Our quarterly results are impacted by a number of trends and recurring factors, which include seasonality of certain businesses, general economic and market conditions, and fluctuations in the Canadian dollar relative to other currencies. The following table summarizes our results for the last eight quarters (the period):

Quarterly results (1)

	2020		20)19			 20)18		
(Millions of Canadian dollars, except per share and percentage amounts)	Q1	Q4	Q3		Q2	Q1	 Q4		Q3	Q2
Personal & Commercial Banking Wealth Management Insurance Investor & Treasury Services Capital Markets (2) Corporate Support (2)	\$ 4,610 3,166 1,994 597 2,548 (79)	\$ 4,568 3,187 1,153 566 1,987 (91)	\$ 4,546 3,029 1,463 561 2,034 (89)	\$	4,333 2,979 1,515 587 2,169 (84)	\$ 4,418 2,948 1,579 631 2,098 (85)	\$ 4,364 2,740 1,039 624 2,056 (154)	\$	4,284 2,798 1,290 620 2,157 (124)	\$ 4,103 2,605 806 671 2,010 (141)
Total revenue PCL PBCAE Non-interest expense	\$ 12,836 419 1,614 6,378	\$ 11,370 499 654 6,319	\$ 11,544 425 1,046 5,992	\$	11,499 426 1,160 5,916	\$ 11,589 514 1,225 5,912	\$ 10,669 353 494 5,882	\$	11,025 346 925 5,858	\$ 10,054 274 421 5,482
Income before income taxes Income taxes	\$ 4,425 916	\$ 3,898 692	\$ 4,081 818	\$	3,997 767	\$ 3,938 766	\$ 3,940 690	\$	3,896 787	\$ 3,877 817
Net income	\$ 3,509	\$ 3,206	\$ 3,263	\$	3,230	\$ 3,172	\$ 3,250	\$	3,109	\$ 3,060
EPS – basic – diluted	\$ 2.41 2.40	\$ 2.19 2.18	\$ 2.23 2.22	\$	2.20 2.20	\$ 2.15 2.15	\$ 2.21 2.20	\$	2.10 2.10	\$ 2.06 2.06
Effective income tax rate Period average US\$ equivalent of C\$1.00	\$ 20.7% 0.760	\$ 17.8% 0.755	\$ 20.0% 0.754	\$	19.2% 0.751	\$ 19.5% 0.749	\$ 17.5% 0.767	\$	20.2% 0.767	\$ 21.1% 0.778

(1) Fluctuations in the Canadian dollar relative to other foreign currencies have affected our consolidated results over the period.

(2) Teb adjusted. For further discussion, refer to the How we measure and report our business segments section our 2019 Annual Report.

Seasonality

Seasonal factors may impact our results in certain quarters. The first quarter has historically been stronger for our Capital Markets businesses. The second quarter has fewer days than the other quarters, which generally results in a decrease in net interest income and certain expense items. The third and fourth quarters include the summer months which results in lower client activity and may negatively impact the results of our Capital Markets brokerage business.

Trend analysis

Earnings have generally trended upward over the period. However, results in the first quarter of 2019 were impacted by challenging market conditions throughout the earlier part of the quarter. Quarterly earnings are also affected by the impact of foreign exchange translation.

Personal & Commercial Banking revenue has benefitted from solid volume growth since the beginning of the period. Higher spreads throughout 2018 and the early half of 2019 reflecting higher interest rates have been partially offset by the ongoing impact of competitive pricing pressures. Overall, however, market interest rates have moderated in the latter part of the period.

Wealth Management revenue has generally trended upwards primarily due to growth in average fee-based client assets which benefitted from market appreciation and net sales. Net interest income has also increased throughout the majority of the period largely driven by volume growth across the period and the impact of higher interest rates throughout the earlier part of the period. The impact of the U.S. Fed rate cuts resulted in lower spreads throughout the latter part of the period. A gain on the sale of the private debt business of BlueBay contributed to the increase in the fourth quarter of 2019. The change in the fair value of the hedges related to our U.S. share-based compensation plans, which is largely offset in Non-interest expense, also contributed to fluctuations in revenue over the period.

Insurance revenue fluctuated over the period, primarily due to the impact of changes in the fair value of investments backing our policyholder liabilities. Revenue has benefitted from business growth in Canadian and International Insurance over the majority of the period, with the exception of lower group annuity sales impacting the fourth quarter of 2019.

Investor & Treasury Services revenue has been impacted by fluctuations in market conditions and client activity across the period. The second quarter of 2018 trended higher due to generally higher market volatility, increased client activity and higher client deposit margins. Revenue from our funding and liquidity business was impacted by reduced money market opportunities in the first quarter of 2019. During the first half of 2019 our asset services business was impacted by challenging market conditions. The latter half of the period was impacted by lower client activity and lower client deposit margins.

Capital Markets revenue is influenced, to a large extent, by market conditions that impact client activity in our Corporate and Investment Banking and Global Markets businesses, with the first quarter results generally stronger than the remaining quarters. The second quarter of 2018 experienced lower equity originations driven by lower market activity, decreased fixed income trading across all regions, and lower equity trading revenue in the U.S. The decline experienced in the fourth quarter of 2018 largely resulted from lower fixed income trading revenue. Client activity in 2019 was impacted by challenging market conditions resulting in lower investment banking fee revenues experienced across the industry. The impact of challenging market conditions also resulted in lower equity trading revenue in the second half of 2019. The first quarter of 2020 saw more favourable market conditions and increased client activity resulting in higher fixed income trading revenue and M&A activity.

PCL on performing assets has fluctuated over the period as it is impacted by volume growth, changes in credit quality, model changes and macroeconomic conditions. PCL on impaired assets saw lower provisions and higher recoveries across a few sectors for the majority of 2018, although the fourth quarter was impacted by the restructuring of portfolios in Barbados. After relatively benign credit conditions in 2018, we returned to a more normalized level of credit losses towards the end of 2019, though the first quarter of 2020 saw lower provisions on impaired loans in Personal & Commercial Banking and Wealth Management.

PBCAE has fluctuated quarterly as it includes the changes to the fair value of investments backing our policyholder liabilities and business growth, including the impact of group annuity sales, both of which are largely offset in Revenue. PBCAE has also fluctuated due to investment-related experience and claims costs over the period. Since late 2018, PBCAE has been positively impacted by favourable reinsurance contract renegotiations. Actuarial adjustments, which generally occur in the fourth quarter of each year, also impact PBCAE results.

While we continue to focus on efficiency management activities, Non-interest expense trended upwards over the period. Growth mainly reflects higher costs in support of business growth and our ongoing investments in technology and related costs, including digital initiatives, and higher staff-related costs, including variable compensation. The increase in the fourth quarter of 2019 reflected severance and related costs associated with repositioning of our Investor & Treasury Services business.

Our effective income tax rate has fluctuated over the period, mostly due to various levels of tax adjustments and changes in earnings mix. The first quarter of 2019 included a write-down of deferred tax assets resulting from a change in the corporate tax rate in Barbados.

Financial condition

Condensed balance sheets

	As	at
	January 31	October 31
(Millions of Canadian dollars)	2020	2019
Assets		
Cash and due from banks	\$ 34,120	\$ 26,310
Interest-bearing deposits with banks	31,331	38,345
Securities, net of applicable allowance (1)	266,667	249,004
Assets purchased under reverse repurchase agreements and securities borrowed	324,187	306,961
Loans		
Retail	430,841	426,086
Wholesale	202,238	195,870
Allowance for loan losses	(3,139)	(3,100)
Other – Derivatives	93,982	101,560
– Other (2)	96,077	87,899
Total assets	\$ 1,476,304	\$ 1,428,935
Liabilities		
Deposits	\$ 902,284	\$ 886,005
Other – Derivatives	94,611	98,543
– Other (2)	386,079	350,947
Subordinated debentures	9,269	9,815
Total liabilities	1,392,243	1,345,310
Equity attributable to shareholders	83,955	83,523
Non-controlling interests	106	102
Total equity	84,061	83,625
Total liabilities and equity	\$ 1,476,304	\$ 1,428,935

(1) Securities are comprised of Trading and Investment securities.

(2) Other – Other assets and liabilities include Segregated fund net assets and liabilities, respectively.

Q1 2020 vs. Q4 2019

Total assets increased \$47 billion or 3% from last quarter. Foreign exchange translation increased total assets by \$6 billion. Cash and due from banks was up \$8 billion or 30%, primarily due to higher deposits with central banks, reflecting our short-term cash and liquidity management activities.

Interest-bearing deposits with banks decreased \$7 billion or 18%, due to lower deposits with central banks, reflecting our cash management and liquidity activities.

Securities, net of applicable allowance, were up \$18 billion or 7%, largely due to higher government debt and corporate debt securities, primarily driven by our liquidity management activities. Higher equity trading securities, reflecting favourable market conditions, also contributed to the increase.

Assets purchased under reverse repurchase agreements (reverse repos) and securities borrowed increased \$17 billion or 6%, mainly attributable to increased client activities and lower financial netting, partially offset by our liquidity management activities.

Loans (net of Allowance for loan losses) were up \$11 billion or 2%, primarily due to volume growth, driven by higher residential mortgages and wholesale loans.

Derivative assets were down \$8 billion or 7%, mainly attributable to lower fair values on foreign exchange contracts partially offset by the impact of foreign exchange translation.

Other assets were up \$8 billion or 9%, largely due to an increase in premises and equipment as a result of adopting IFRS 16. Higher customers' liability under acceptances, driven by client demand, also contributed to the increase.

Total liabilities increased \$47 billion or 3%. Foreign exchange translation increased total liabilities by \$6 billion.

Deposits increased \$16 billion or 2%, due to an increase in retail deposits, driven by client activities. Higher issuances of fixed term notes driven by funding requirements also contributed to the increase.

Derivative liabilities were down \$4 billion or 4%, primarily attributable to lower fair values on foreign exchange contracts, partially offset by the impact of foreign exchange translation and higher fair values on commodity derivative contracts.

Other liabilities increased \$35 billion or 10%, mainly due to higher obligations related to repurchase agreements due to increased client activity and lower financial netting. Higher lease liabilities as a result of adopting IFRS 16 also contributed to the increase.

Off-balance sheet arrangements

In the normal course of business, we engage in a variety of financial transactions that, for accounting purposes, are not recorded on our Consolidated Balance Sheets. Off-balance sheet transactions are generally undertaken for risk, capital and funding management purposes which benefit us and our clients. These include transactions with structured entities and may also include the issuance of guarantees. These transactions give rise to, among other risks, varying degrees of market, credit,

and liquidity and funding risk, which are discussed in the Risk management section of this Q1 2020 Report to Shareholders. Our significant off-balance sheet transactions include those described on pages 45 to 47 of our 2019 Annual Report.

Risk management

Credit risk

Credit risk is the risk of loss associated with an obligor's potential inability or unwillingness to fulfill its contractual obligations on a timely basis. Credit risk may arise directly from the risk of default of a primary obligor, indirectly from a secondary obligor, through off-balance sheet exposures, contingent credit risk and/or transactional risk.

Our Credit Risk Framework (CRF) and supporting credit policies are designed to clearly define roles and responsibilities, acceptable practices, limits and key controls. There have been no material changes to our CRF as described in our 2019 Annual Report.

Credit risk exposure by portfolio, sector and geography

The following table presents our credit risk exposures under the Basel regulatory defined classes and reflects exposures at default (EAD). The classification of our sectors aligns with our view of credit risk by industry.

				As at			
				uary 31			October 31
		6 HL 1 (1)	2	020			2019
		Credit risk (1)		Counterparty	credit risk (2)	-	
	On-balance	Off-balance sh		Repo-style		Total	Total
(Millions of Canadian dollars)	sheet amount	Undrawn	Other (4)	transactions	Derivatives	exposure	exposure
Retail							
Residential secured (5)	\$ 319,702	\$ 83,450	\$ -	\$ -	\$ -	\$ 403,152	\$ 380,872
Qualifying revolving (6)	26,763	64,893	_	-	-	91,656	100,364
Other retail	62,431	12,853	69		-	75,353	75,094
Total retail	\$ 408,896	\$161,196	\$ 69	\$ –	\$ –	\$ 570,161	\$ 556,330
Wholesale							
Agriculture	\$ 9,309	\$ 1,755	\$ 49	\$ –	\$ 85	\$ 11,198	\$ 10,953
Automotive	9,948	6,742	288	-	971	17,949	18,215
Banking	36,104	1,963	586	46,870	20,707	106,230	112,425
Consumer discretionary	15,243	8,815	566	-	563	25,187	25,912
Consumer staples	5,509	6,992	516	-	1,110	14,127	15,523
Oil & gas	7,701	10,522	1,422	-	1,516	21,161	21,767
Financial services	28,729	20,529	2,861	121,807	19,355	193,281	188,893
Financing products	2,886	845	518	165	715	5,129	3,258
Forest products	1,592	677	107	-	35	2,411	2,280
Governments	140,065	5,614	1,390	9,768	6,216	163,053	130,005
Industrial products	7,778	7,751	621	-	634	16,784	17,239
Information technology	6,609	5,462	244	22	1,966	14,303	12,901
Investments	17,032	2,785	406	11	287	20,521	19,945
Mining & metals	1,871	3,809	859	-	294	6,833	7,012
Public works & infrastructure	1,581	1,904	367	-	211	4,063	4,096
Real estate & related	64,739	13,048	1,329	-	970	80,086	75,652
Other services	25,501	11,814	988	8	1,592	39,903	40,167
Telecommunication & media	5,071	9,060	95	-	2,250	16,476	16,481
Transportation	5,878	5,652	1,991	-	1,919	15,440	15,932
Utilities	8,696	16,840	4,128	-	4,064	33,728	36,035
Other sectors	1,506	317	2	27	19,927	21,779	21,973
Total wholesale	\$ 403,348	\$142,896	\$19,333	\$178,678	\$85,387	\$ 829,642	\$ 796,664
Total exposure (7)	\$ 812,244	\$304,092	\$19,402	\$178,678	\$ 85,387	\$1,399,803	\$1,352,994
By geography (8)							
Canada	\$ 559,439	\$232,987	\$10,027	\$ 67,920	\$41,801	\$ 912,174	\$ 888,839
U.S.	165,668	52,967	\$10,027	53,249	17,428	297,411	289,330
Еигоре	49,760	15,496	1,140	45,730	21,250	133,376	123,891
Other International	37,377	2,642	136	11,779	4,908	56,842	50,934
		,		· · · · · · · · · · · · · · · · · · ·			
Total exposure (7)	\$ 812,244	\$304,092	\$19,402	\$178,678	\$85,387	\$1,399,803	\$1,352,994

(1) EAD for standardized exposures are reported net of allowance for impaired assets and EAD for internal ratings based exposures are reported gross of all allowance for credit losses and partial write-offs as per regulatory definitions.

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.
 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) Includes residential mortgages and home equity lines of credit.

(6) Includes credit cards, unsecured lines of credit and overdraft protection products.

(7) Excludes securitization, banking book equities and other assets not subject to the standardized or internal ratings based approach.

(8) Geographic profile is based on the country of residence of the borrower.

Q1 2020 vs. Q4 2019

Total credit risk exposure increased \$47 billion or 3% from the prior quarter, largely due to an increase in securities and volume growth in loans and acceptances.

Retail exposure increased \$14 billion or 2%, driven by volume growth in the residential secured portfolio, partially offset by a decrease in the qualifying revolving portfolio.

Wholesale exposure increased \$33 billion or 4%, primarily due to an increase in securities, higher repo-style transactions and derivatives.

The geographic mix of our credit risk exposure remained largely consistent to the prior quarter. Our exposure in Canada, the U.S., Europe and Other International was 65%, 21%, 10% and 4%, respectively (October 31, 2019 – 66%, 21%, 9% and 4%, respectively).

Net European exposure by country, asset type and client type (1), (2)

	As at												
							January					October 31	
							2020	0				2019	
			Asset	type					Client type		_		
	Loans		(2)		o-style					C 1	-	T . 1	
(Millions of Canadian dollars)	Outstanding							Financials	0	Corporate	Total	Total	
U.K.	\$ 9,183		15,131	\$	402	\$	4,313	\$13,181	. ,	. ,	\$29,029	\$ 23,487	
Germany	2,273		5,967		3		349	4,491	1,338	2,763	8,592	7,227	
France	1,097		9,225		33		204	1,400	8,340	819	10,559	9,211	
Total U.K., Germany, France	\$ 12,553	\$	30,323	\$	438	\$	4,866	\$19,072	\$16,508	\$12,600	\$48,180	\$ 39,925	
Ireland	\$ 775	\$	50	\$	492	\$	51	\$ 759	\$ 1	\$ 608	\$ 1,368	\$ 1,467	
Italy	106		384		-		7	68	353	76	497	821	
Portugal	-		13		35		-	48	_	_	48	67	
Spain	305		174		1		45	156	-	369	525	520	
Total peripheral	\$ 1,186	\$	621	\$	528	\$	103	\$ 1,031	\$ 354	\$ 1,053	\$ 2,438	\$ 2,875	
Luxembourg	\$ 2,702	\$	8,004	\$	94	\$	44	\$ 1,703	\$ 7,520	\$ 1,621	\$10,844	\$ 11,723	
Netherlands	1,191		1,010		49		400	981	_	1,669	2,650	2,250	
Norway	133		1,985		27		40	1,872	119	194	2,185	2,553	
Sweden	281		2,714		17		36	1,593	1,100	355	3,048	2,225	
Switzerland	990		3,083		123		185	719	2,701	961	4,381	5,308	
Other	1,809		2,331		196		162	1,567	1,312	1,619	4,498	4,818	
Total other Europe	\$ 7,106	\$	19,127	\$	506	\$	867	\$ 8,435	\$12,752	\$ 6,419	\$27,606	\$ 28,877	
Net exposure to Europe (4), (5)	\$ 20,845	\$	50,071	\$ 1	1,472	\$	5,836	\$28,538	\$29,614	\$20,072	\$78,224	\$ 71,677	

(1) Geographic profile is based on country of risk, which reflects our assessment of the geographic risk associated with a given exposure. Typically, this is the residence of the borrower.

(2) Exposures are calculated on a fair value basis and net of collateral, which includes \$157.6 billion against repo-style transactions (October 31, 2019 – \$120.5 billion) and \$10.2 billion against derivatives (October 31, 2019 – \$11.4 billion).

(3) Securities include \$8.7 billion of trading securities (October 31, 2019 – \$9.4 billion), \$27.6 billion of deposits (October 31, 2019 – \$22.5 billion), and \$13.7 billion of debt securities carried at fair value through other comprehensive income (FVOCI) (October 31, 2019 – \$12.9 billion).

(4) Excludes \$2.5 billion (October 31, 2019 - \$1.5 billion) of exposures to supranational agencies, predominantly in Luxembourg.

(5) Reflects \$2.6 billion of mitigation through credit default swaps, which are largely used to hedge single name exposures and market risk (October 31, 2019 – \$1.0 billion).

Q1 2020 vs. Q4 2019

Net credit risk exposure to Europe increased \$6.5 billion from last quarter, mainly driven by higher deposits with central banks, largely in the United Kingdom and France.

Our European corporate loan book is managed on a global basis with underwriting standards reflecting the same approach to the use of our balance sheet as we have applied in both Canada and the U.S. PCL on loans during the quarter was \$23 million. The gross impaired loans ratio of this loan book was 61 bps, up 17 bps from last quarter, mainly in the oil & gas sector.

Residential mortgages and home equity lines of credit (insured vs. uninsured)

Residential mortgages and home equity lines of credit are secured by residential properties. The following table presents a breakdown by geographic region.

				As at Januar	y 31, 2020		
(Millions of Canadian dollars,			ome equity es of credit				
except percentage amounts)	Ins	ured (1)		Unins	ured	Total	Total
Region (2) Canada							
Atlantic provinces	\$ 7,658	51%	\$	7,352	49%	\$ 15,010	\$ 1,795
Quebec	12,120	35		22,894	65	35,014	3,387
Ontario	35,339	27		97,354	73	132,693	16,173
Alberta	20,474	53		18,452	47	38,926	6,152
Saskatchewan and Manitoba	8,842	49		9,335	51	18,177	2,286
B.C. and territories	14,370	27		38,972	73	53,342	8,018
Total Canada (3)	\$ 98,803	34%	\$ 1	194,359	66%	\$ 293,162	\$ 37,811
U.S. (4)	-	-		18,098	100	18,098	1,644
Other International (4)	6	-		2,938	100	2,944	1,366
Total International	\$ 6	-%	\$	21,036	100%	\$ 21,042	\$ 3,010
Total	\$ 98,809	31%	\$ 2	215,395	69%	\$ 314,204	\$ 40,821

				As at Octobe	er 31, 2019			
(Millions of Canadian dollars,			ome equity es of credit					
except percentage amounts)		Insured	d (1)	Uninsured			Total	Total
Region (2) Canada								
Atlantic provinces	\$	7,715	52%	\$ 7,169	48%	\$	14,884	\$ 1,838
Quebec		12,385	36	22,091	64		34,476	3,512
Ontario		36,195	28	92,947	72		129,142	16,585
Alberta		20,688	53	18,143	47		38,831	6,324
Saskatchewan and Manitoba		8,951	49	9,238	51		18,189	2,363
B.C. and territories		14,711	28	37,534	72		52,245	8,267
Total Canada (3)	\$	100,645	35% \$	\$ 187,122	65%	\$	287,767	\$ 38,889
U.S. (4)		1	-	17,011	100		17,012	1,652
Other International (4)		5	-	3,307	100		3,312	1,373
Total International	\$	6	-% \$	\$ 20,318	100%	\$	20,324	\$ 3,025
Total	\$	100,651	33% \$	\$ 207,440	67%	\$	308,091	\$ 41,914

(1) Insured residential mortgages are mortgages whereby our exposure to default is mitigated by insurance through the Canada Mortgage and Housing

(2)

Corporation (CMHC) or other private mortgages whereby our exposure to default is mitigated by insurance through the Canada Mortgage and Housing Corporation (CMHC) or other private mortgage default insurers. Region is based upon address of the property mortgaged. The Atlantic provinces are comprised of Newfoundland and Labrador, Prince Edward Island, Nova Scotia and New Brunswick, and B.C. and territories are comprised of British Columbia, Nunavut, Northwest Territories and Yukon. Total consolidated residential mortgages in Canada of \$293 billion (October 31, 2019 – \$288 billion) was largely comprised of \$268 billion (October 31, 2019 – \$263 billion) of mortgages and \$7 billion (October 31, 2019 – \$7 billion) of mortgages with commercial clients, of which \$4 billion (3) (October 31, 2019 - \$4 billion) are insured mortgages, both in Canadian Banking, and \$18 billion (October 31, 2019 - \$18 billion) of residential mortgages in Capital Markets held for securitization purposes.

Home equity lines of credit include term loans collateralized by residential mortgages. (4)

Home equity lines of credit are uninsured and reported within the personal loan category. As at January 31, 2020, home equity lines of credit in Canadian Banking were \$38 billion (October 31, 2019 – \$39 billion).

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Residential mortgages portfolio by amortization period

The following table provides a summary of the percentage of residential mortgages that fall within the remaining amortization periods based upon current customer payment amounts, which incorporate payments larger than the minimum contractual amount and/or higher frequency of payments.

			As c	ıt						
	Jo	anuary 31		October 31						
		2020			2019					
	U.S.	and other		U.S.	and other					
	Canada Int	ernational	Total	Canada Int	ernational	Total				
Amortization period										
≤ 25 years	72%	36%	69%	72%	38%	70%				
> 25 years ≤ 30 years	24	64	27	24	62	26				
> 30 years ≤ 35 years	3	-	3	3	-	3				
> 35 years	1	-	1	1	-	1				
Total	100%	100%	100%	100%	100%	100%				

Average loan-to-value (LTV) ratios

The following table provides a summary of our average LTV ratio for newly originated and acquired uninsured residential mortgages and Homeline products by geographic region.

		For the three i	months ended	
	Janua 20:	•	Octob 20	
	Unin	sured	Unin	sured
	Residential mortgages (1)	Homeline products (2)	Residential mortgages (1)	Homeline products (2)
Region (3)				
Atlantic provinces	74%	74%	74%	74%
Quebec	72	73	72	73
Ontario	71	67	71	68
Alberta	72	71	73	72
Saskatchewan and Manitoba	74	75	74	75
B.C. and territories	68	65	69	65
U.S.	73	n.m.	74	n.m.
Other International	71	n.m.	71	n.m.
Average of newly originated and acquired for the period (4) (5)	71%	68%	71%	69%
Total Canadian Banking residential mortgages portfolio (6)	58%	50%	57%	50%

(1) Residential mortgages exclude residential mortgages within the Homeline products.

Homeline products are comprised of both residential mortgages and home equity lines of credit. (2)

(3) Region is based upon address of the property mortgaged. The Atlantic provinces are comprised of Newfoundland and Labrador, Prince Edward Island, Nova Scotia and New Brunswick, and B.C. and territories are comprised of British Columbia, Nunavut, Northwest Territories and Yukon.

The average LTV ratio for newly originated and acquired uninsured residential mortgages and Homeline products is calculated on a weighted basis (4) by mortgage amounts at origination.

For newly originated mortgages and Homeline products, LTV is calculated based on the total facility amount for the residential mortgage and (5) Homeline product divided by the value of the related residential property. Weighted by mortgage balances and adjusted for property values based on the Teranet – National Bank National Composite House Price Index.

(6) n.m. not meaningful

Credit quality performance

The following credit quality performance tables and analysis provide information on loans, which represents loans, acceptances and commitments, and other financial assets.

Provision for credit losses

		For th	ne three	months end	ded	
	Je	anuary 31	00	tober 31	Jo	inuary 31
(Millions of Canadian dollars, except percentage amounts)		2020		2019		2019
Personal & Commercial Banking	\$	343	\$	393	\$	347
Wealth Management Capital Markets		(2) 80		34 78		26 143
Corporate Support and other		-		-		-
PCL – Loans	\$	421	\$	505	\$	516
PCL – Other financial assets		(2)		(6)		(2)
Total PCL	\$	419	\$	499	\$	514
PCL on loans is comprised of:						
Retail	\$	34	\$	47	\$	33
Wholesale		49		24		60
PCL on performing loans	\$	83	\$	71	\$	93
Retail Wholesale	\$	271 67	\$	290 144	\$	269 154
PCL on impaired loans	\$	338	\$	434	\$	423
PCL – Loans	\$	421	\$	505	\$	516
PCL on loans as a % of average net loans and acceptances		0.26%		0.32%		0.34%
PCL on impaired loans as a % of average net loans and acceptances		0.21%		0.27%		0.28%
· · · · · · · · · · · · · · · · · · ·						
Additional information by geography (1)						
Canada Decidential martagene	\$	10	Ś	9	Ś	10
Residential mortgages Personal	Ş	129	Ş	133	Ş	121
Credit cards		137		139		116
Small business		12		11		5
Retail		288		292		252
Wholesale		6		76		41
PCL on impaired loans	\$	294	\$	368	\$	293
U.S.		(0)		_		2
Retail Wholesale	\$	(2) 55	\$	5 49	\$	2 110
PCL on impaired loans	\$	53	Ś	54	Ś	112
	\$	55	Ş	54	ڊ -	112
Other International Retail	\$	(15)	\$	(7)	\$	15
Wholesale	÷.	6	Ŷ	19	Ŷ	3
PCL on impaired loans	\$	(9)	\$	12	\$	18
PCL on impaired loans	\$	338	\$	434	\$	423

(1) Geographic information is based on residence of borrower.

Q1 2020 vs. Q1 2019

Total PCL was \$419 million. PCL on loans of \$421 million decreased \$95 million, or 18% from the prior year, primarily due to lower provisions in Capital Markets and Wealth Management. The PCL on loans ratio of 26 bps decreased 8 bps.

PCL on performing loans of \$83 million decreased \$10 million, reflecting lower provisions in Capital Markets and Wealth Management, largely offset by higher provisions in Personal & Commercial Banking.

PCL on impaired loans of \$338 million decreased \$85 million, due to lower provisions in Capital Markets, Personal & Commercial Banking and Wealth Management.

PCL on loans in Personal & Commercial Banking decreased \$4 million or 1%, reflecting lower provisions on impaired loans in our Caribbean Banking and Canadian Banking commercial portfolios, partially offset by higher provisions on impaired loans in our Canadian Banking retail portfolios. This was mainly offset by higher provisions on performing loans, largely due to unfavourable changes in credit quality, mainly in our Canadian Banking portfolios.

PCL on loans in Wealth Management decreased \$28 million, primarily in U.S. Wealth Management (including City National), reflecting lower provisions on performing loans due to unfavourable macroeconomic factors in the prior year. Lower provisions on impaired loans also contributed to the decrease, mainly due to a provision taken in the consumer discretionary sector in the prior year and higher recoveries in the current quarter.

PCL on loans in Capital Markets decreased \$63 million or 44%, largely driven by lower provisions on impaired loans mainly due to a provision taken in the utilities sector in the prior year, partially offset by provisions on impaired loans taken in

the current year, mainly in the oil & gas sector. Lower provisions on performing loans also contributed to the decrease, as the current year reflected a lower impact from unfavourable macroeconomic factors compared to the prior year.

Q1 2020 vs. Q4 2019

PCL on loans of \$421 million decreased \$84 million, or 17% from the prior quarter, due to lower provisions in Personal & Commercial Banking and Wealth Management. The PCL on loans ratio decreased 6 bps.

PCL on performing loans of \$83 million increased \$12 million, reflecting higher provisions in Personal & Commercial Banking.

PCL on impaired loans of \$338 million decreased \$96 million, reflecting lower provisions in Personal & Commercial Banking and Wealth Management.

PCL on loans in Personal & Commercial Banking decreased \$50 million or 13%, largely reflecting lower provisions on impaired loans in our Canadian Banking commercial and Caribbean Banking portfolios, partially offset by higher provisions on performing loans in Canadian Banking. The increase in provisions on performing loans in Canadian Banking was driven by unfavourable changes in macroeconomic factors and the impact of a favourable model update in the prior quarter, partially offset by lower unfavourable changes in credit quality.

PCL on loans in Wealth Management decreased \$36 million, reflecting lower provisions on impaired loans in U.S. Wealth Management (including City National), mainly due to provisions taken in the consumer discretionary sector in the prior quarter and higher recoveries in the current quarter.

Gross impaired loans

				As at		
	J	anuary 31	0	ctober 31	Jo	anuary 31
(Millions of Canadian dollars, except percentage amounts)		2020		2019		2019
Personal & Commercial Banking	\$	1,689	\$	1,712	\$	1,653
Wealth Management		344		266		223
Capital Markets		903		998		906
Corporate Support and other		-		-		-
Total GIL	\$	2,936	\$	2,976	\$	2,782
Canada (1)						
Retail	\$	816	\$	788	\$	749
Wholesale		709		678		407
GIL		1,525		1,466		1,156
U.S. (1)						
Retail	\$	31	\$	36	\$	30
Wholesale		793		869		949
GIL		824		905		979
Other International (1)						
Retail	\$	235	\$	272	\$	331
Wholesale		352		333		316
GIL		587		605		647
Total GIL	\$	2,936	\$	2,976	\$	2,782
Impaired loans, beginning balance	\$	2,976	\$	2,990	\$	2,183
Classified as impaired during the period (new impaired) (2)		713		768		1,133
Net repayments (2)		(304)		(206)		(99)
Amounts written off		(399)		(461)		(377)
Other (2) (3)		(50)		(115)		(58)
Impaired loans, balance at end of period	\$	2,936	\$	2,976	\$	2,782
GIL as a % of related loans and acceptances						
Total GIL as a % of related loans and acceptances		0.45%		0.46%		0.46%
Personal & Commercial Banking		0.36%		0.37%		0.37%
Canadian Banking		0.29%		0.29%		0.26%
Caribbean Banking		4.46%		5.05%		6.54%
Wealth Management		0.48%		0.39%		0.37%
Capital Markets		0.89%		1.02%		0.90%

(1) Geographic information is based on residence of the borrower.

(2) 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 foreign exchange translation 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 foreign exchange translation and other movements amounts are not reasonably determinable.

(3) Includes return to performing status during the period, recoveries of loans and advances previously written off, sold, and foreign exchange translation and other movements.

Q1 2020 vs. Q1 2019

Total GIL of \$2,936 million increased \$154 million or 6% from the prior year, reflecting higher impaired loans in Wealth Management and Personal & Commercial Banking. The total GIL ratio of 45 bps improved 1 bp.

GIL in Personal & Commercial Banking increased \$36 million or 2%, due to higher impaired loans in our Canadian Banking commercial and retail portfolios, partially offset by lower impaired loans in our Caribbean Banking portfolios.

GIL in Wealth Management increased \$121 million or 54%, primarily reflecting higher impaired loans in U.S. Wealth Management (including City National), mainly in the consumer staples and consumer discretionary sectors.

Q1 2020 vs. Q4 2019

Total GIL of \$2,936 million decreased \$40 million or 1% from the prior quarter, and the total GIL ratio of 45 bps improved 1 bp, reflecting lower impaired loans in Capital Markets and Personal & Commercial Banking, partially offset by higher impaired loans in Wealth Management.

GIL in Personal & Commercial Banking decreased \$23 million or 1%, due to lower impaired loans in Caribbean Banking, partially offset by higher impaired loans in our Canadian Banking portfolios.

GIL in Wealth Management increased \$78 million or 29%, primarily reflecting higher impaired loans in U.S. Wealth Management (including City National), mainly in the consumer staples and consumer discretionary sectors.

GIL in Capital Markets decreased \$95 million or 10%, mainly due to repayments, largely in the oil and gas sector, partially offset by new impaired loans, across a few sectors.

Allowance for credit losses (ACL)

(Millions of Canadian dollars)	Jo	anuary 31 2020	00	2019 2019	Jo	inuary 31 2019
Personal & Commercial Banking Wealth Management Capital Markets Corporate Support and other	\$	2,714 254 501 2	\$	2,710 252 455 2	\$	2,604 202 464 3
ACL on loans ACL on other financial assets	\$	3,471 43	\$	3,419 45	\$	3,273 69
Total ACL	\$	3,514	\$	3,464	\$	3,342
ACL on loans is comprised of: Retail Wholesale	\$	1,910 746	\$	1,886 701	\$	1,785 693
ACL on performing loans ACL on impaired loans	\$	2,656 815	\$	2,587 832	\$	2,478 795
Additional information by geography (1)						
Canada Retail Wholesale	\$	200 153	\$	187 172	\$	176 111
ACL on impaired loans	\$	353	\$	359	\$	287
U.S. Retail Wholesale	\$	2 159	\$	1 141	\$	2 226
ACL on impaired loans	\$	161	\$	142	\$	228
Other International Retail Wholesale	\$	129 172	\$	156 175	\$	169 111
ACL on impaired loans	\$	301	\$	331	\$	280
ACL on impaired loans	\$	815	\$	832	\$	795

(1) Geographic information is based on residence of the borrower.

Q1 2020 vs. Q1 2019

Total ACL of \$3,514 million increased \$172 million or 5% from the prior year, largely reflecting an increase of \$198 million in ACL on loans.

ACL on performing loans of \$2,656 million increased \$178 million from the prior year, largely reflecting higher ACL in Personal & Commercial Banking and Wealth Management, mainly driven by volume growth and unfavourable changes in credit quality, partially offset by favourable changes in macroeconomic factors.

ACL on impaired loans of \$815 million increased \$20 million from the prior year, due to higher ACL in Wealth Management and Capital Markets, partially offset by lower ACL in Personal and Commercial Banking.

Q1 2020 vs. Q4 2019

Total ACL of \$3,514 million increased \$50 million or 1% from the prior quarter, reflecting an increase of \$52 million in ACL on loans.

ACL on performing loans of \$2,656 million increased \$69 million from the prior quarter, reflecting higher ACL in Personal & Commercial Banking and Capital Markets, mainly driven by volume growth and unfavourable changes in macroeconomic factors.

ACL on impaired loans of \$815 million decreased \$17 million from the prior quarter, primarily due to lower ACL in Personal & Commercial Banking, partially offset by higher ACL in Capital Markets.

For further details, refer to Note 5 of our Condensed Financial Statements.

Market risk

Market risk is defined to be the impact of market prices upon our financial condition. This includes potential gains or losses due to changes in market determined variables such as interest rates, credit spreads, equity prices, commodity prices, foreign exchange rates and implied volatilities. There have been no material changes to our Market Risk Framework from the framework described in our 2019 Annual Report. We continue to manage the controls and governance procedures that ensure that our market risk exposure is consistent with risk appetite constraints set by the Board of Directors. These controls include limits on probabilistic measures of potential loss in trading positions, such as Value-at-Risk (VaR) and Stressed Value-at-Risk (SVaR).

Market risk controls are also in place to manage structural interest rate risk (SIRR) arising from traditional banking products. Factors contributing to SIRR include the mismatch between future asset and liability repricing dates, relative changes in asset and liability rates, and product features that could affect the expected timing of cash flows, such as options to pre-pay loans or redeem term deposits prior to contractual maturity. To monitor and control SIRR, we assess two primary financial metrics, Net Interest Income (NII) risk and Economic Value of Equity (EVE) risk, under a range of market shocks and scenarios. For further details of our approach to the management of market risk, refer to the Market risk section of our 2019 Annual Report. There has been no material change to the SIRR measurement methodology, controls, or limits from those described in our 2019 Annual Report.

Market risk measures – FVTPL positions

VaR and SVaR

The following table presents our Market risk VaR and Market risk SVaR figures.

	January 31, 2020						October 31, 2019				January 31, 2019				
					the three ths ended						he three hs ended				the three ths ended
(Millions of Canadian dollars)	As at		Average		High		Low		As at		Average		As at		Average
Equity	\$ 22	\$	20	\$	33	\$	14	\$	22	\$	21	\$	20	\$	22
Foreign exchange	3		2		4		1		3		3		4		6
Commodities	1		2		3		1		2		2		2		3
Interest rate (1)	13		13		19		11		13		15		14		16
Credit specific (2)	6		5		6		4		5		5		5		5
Diversification (3)	(18)		(17))	n.m.		n.m.		(17)		(17)		(15)		(18)
Market risk VaR	\$ 27	\$	25	\$	35	\$	18	\$	28	\$	29	\$	30	\$	34
Market risk Stressed VaR	\$ 95	\$	84	\$	105	\$	72	\$	85	\$	100	\$	113	\$	123

(1) General credit spread risk and funding spread risk associated with uncollateralized derivatives are included under interest rate VaR.

(2) Credit specific risk captures issuer-specific credit spread volatility.

(3) Market risk VaR is less than the sum of the individual risk factor VaR results due to portfolio diversification.

n.m. not meaningful

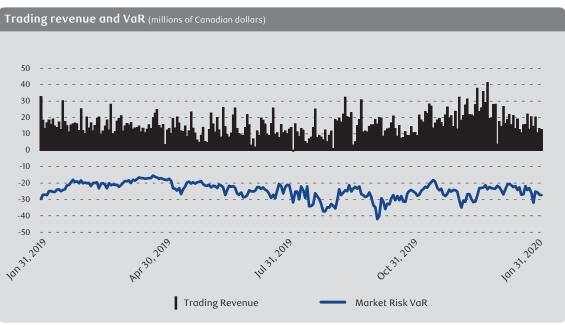
Q1 2020 vs. Q1 2019

Average market risk VaR of \$25 million decreased \$9 million and average SVaR of \$84 million decreased \$39 million from the prior year, mainly due to the impact of lower overall market volatility and a reduction in average inventory levels in our fixed income portfolios in the current quarter.

Q1 2020 vs. Q4 2019

Average market risk VaR of \$25 million decreased \$4 million and average SVaR of \$84 million decreased \$16 million from the prior quarter, mainly driven by lower overall market volatility and lower average inventory levels in our fixed income portfolios in the current quarter.

The following chart displays a bar graph of our daily trading profit and loss and a line graph of our daily market risk VaR. We incurred no net trading losses in the three months ended January 31, 2020 and 1 day of losses totaling \$0.4 million in the three months ended October 31, 2019, which did not exceed VaR on that day.



Market risk measures for assets and liabilities of RBC Insurance®

We offer a range of insurance products to clients and hold investments to meet the future obligations to policyholders. 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 the Consolidated 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. As at January 31, 2020, we held assets in support of \$12.3 billion liabilities with respect to insurance obligations (October 31, 2019 – \$11.4 billion).

Market risk measures – Structural Interest Rate Sensitivities

The following table shows the potential before-tax impact of an immediate and sustained 100 bps increase or decrease in interest rates on projected 12-month NII and EVE for our structural balance sheet, assuming no subsequent hedging. Rate floors are applied within the declining rates scenarios, with floor levels set based on rate changes experienced globally. Interest rate risk measures are based upon interest rate exposures at a specific time and continuously change as a result of business activities and management actions.

			January 2020	Octob 20		Janua 20	ary 31 1 9			
		EVE risk			NII risk (1)					
(Millions of Canadian dollars)	Canadian dollar impact	U.S. dollar impact (2)	Total	Canadian dollar impact	U.S. dollar impact (2)	Total	EVE risk	NII risk (1)	EVE risk	NII risk (1)
Before-tax impact of: 100 bps increase in rates 100 bps decrease in rates	\$ (1,334) 1,243	\$ (230) (100)	\$ (1,564) 1,143	\$ 377 (508)	\$91 (119)	\$ 468 (627)	\$(1,356) 920	\$ 479 (637)	\$ (1,019) 549	\$ 487 (617)

(1) Represents the 12-month NII exposure to an instantaneous and sustained shift in interest rates.

(2) Represents the impact on the SIRR portfolios held in our City National and U.S. banking operations.

As at January 31, 2020, an immediate and sustained -100 bps shock would have had a negative impact to our NII of \$627 million, down from \$637 million last quarter. An immediate and sustained +100 bps shock at the end of January 31, 2020 would have had a negative impact to the bank's EVE of \$1,564 million, up from \$1,356 million reported last quarter. The quarter-over-quarter change in NII sensitivity was stable, while the quarter-over-quarter change in EVE sensitivity is mainly attributed to growth in the structural balance sheet. During the first quarter of 2020, SIRR NII and EVE risks remained well within approved limits.

Market risk measures for other material non-trading portfolios

Investment securities carried at FVOCI

We held \$77.5 billion of investment securities carried at FVOCI as at January 31, 2020, compared to \$57.7 billion in the prior quarter. We hold debt securities carried at FVOCI primarily as investments, as well as to manage liquidity risk and hedge interest rate risk in our non-trading banking balance sheet. As at January 31, 2020, our portfolio of investment securities carried at FVOCI is interest rate sensitive and would impact OCI by a pre-tax change in value of \$8 million as measured by the change in the value of the securities for a one basis point parallel increase in yields. The portfolio also exposes us to credit spread risk of a pre-tax change in value of \$22 million, as measured by the change in value for a one basis point widening of credit spreads. The value of the investment securities carried at FVOCI included in our SIRR measure as at January 31, 2020 was \$11.5 billion. Our investment securities carried at FVOCI also include equity exposures of \$0.5 billion as at January 31, 2020, compared to \$0.4 billion in the prior quarter.

Non-trading foreign exchange rate risk

Foreign exchange rate risk is the potential adverse impact on earnings and economic value due to changes in foreign currency rates. Our revenue, expenses and income denominated in currencies other than the Canadian dollar are subject to fluctuations as a result of changes in the value of the average Canadian dollar relative to the average value of those currencies. Our most significant exposure is to the U.S. dollar, due to our operations in the U.S. and other activities conducted in U.S. dollars. Other significant exposures are to the British pound and the Euro, due to our activities conducted internationally in these currencies. A strengthening or weakening of the Canadian dollar compared to the U.S. dollar, British pound and the Euro could reduce or increase, as applicable, the translated value of our foreign currency denominated revenue, expenses and earnings and could have a significant effect on the results of our operations. We are also exposed to foreign exchange rate risk arising from our investments in foreign operations. For unhedged equity investments, when the Canadian dollar appreciates against other currencies, the unrealized translation losses on net foreign investments decreases our shareholders' equity through the other components of equity and decreases the translated value of the Risk-weighted Assets (RWA) of the foreign currency-denominated asset. The reverse is true when the Canadian dollar depreciates against other consider these impacts in selecting an appropriate level of our investments in foreign operations to be hedged.

Derivatives related to non-trading activity

Derivatives are also used to hedge market risk exposure unrelated to our trading activity. Hedge accounting is elected where applicable. These derivatives are included in our SIRR measure and other internal non-trading market risk measures. We use interest rate swaps to manage our SIRR, funding and investment activities. Interest rate swaps are also used to hedge changes in the fair value of certain fixed-rate instruments. We also use foreign exchange derivatives to manage our exposure to equity investments in subsidiaries that are denominated in foreign currencies, particularly the U.S. dollar, British Pound, and Euro.

For further details on the application of hedge accounting and the use of derivatives for hedging activities, refer to Notes 2 and 8 of our 2019 Annual Consolidated Financial Statements.

Linkage of market risk to selected balance sheet items

The following table provides the linkages between selected balance sheet items with positions included in our trading market risk and non-trading market risk disclosures, which illustrates how we manage market risk for our assets and liabilities through different risk measures:

			As at January	/ 31, 2020
		Market risl	k measure	
(Millions of Canadian dollars)	Balance sheet amount	Traded risk (1)	Non-traded risk (2)	Non-traded risk primary risk sensitivity
Assets subject to market risk	diniodite	indice hisk (i)	1151(2)	
Cash and due from banks	\$ 34,120	\$ -	\$ 34,120	Interest rate
Interest-bearing deposits with banks	31,331	19,166	12,165	Interest rate
Securities	51,551	19,100	12,105	interestrute
Trading	145,015	134,046	10,969	Interest rate, credit spread
Investment, net of applicable allowance	121,652	-	121,652	Interest rate, credit spread, equity
Assets purchased under reverse repurchase				······································
agreements and securities borrowed	324,187	261,216	62,971	Interest rate
Loans	,	,	,	
Retail	430,841	7,285	423,556	Interest rate
Wholesale	202,238	8,901	193,337	Interest rate
Allowance for loan losses	(3,139)	-	(3,139)	Interest rate
Segregated fund net assets	1,788	-	1,788	Interest rate
Other				
Derivatives	93,982	91,622	2,360	Interest rate, foreign exchange
Other assets	82,679	5,315	77,364	Interest rate
Assets not subject to market risk (3)	11,610			
Total assets	\$ 1,476,304	\$ 527,551	\$ 937,143	
Liabilities subject to market risk				
Deposits	\$ 902,284	\$ 95,918	\$ 806,366	Interest rate
Segregated fund liabilities	1,788	-	1,788	Interest rate
Other				
Obligations related to securities sold short	35,624	35,624	-	
Obligations related to assets sold				
under repurchase agreements and				
securities loaned	254,391	247,170	7,221	Interest rate
Derivatives	94,611	92,527	2,084	Interest rate, foreign exchange
Other liabilities	81,258	9,107	72,151	Interest rate
Subordinated debentures	9,269	-	9,269	Interest rate
Liabilities not subject to market risk (4)	13,018			
Total liabilities	\$ 1,392,243	\$ 480,346	\$ 898,879	
Total equity	\$ 84,061			
Total liabilities and equity	\$ 1,476,304	-		

Traded risk includes positions that are classified or designated as FVTPL and positions whose revaluation gains and losses are reported in revenue. Market risk measures of (1) VaR and SVaR and stress testing are used as risk controls for traded risk.

Non-traded risk includes positions used in the management of the SIRR and other non-trading portfolios. Other material non-trading portfolios include positions from RBC Insurance® and investment securities, net of applicable allowance, not included in SIRR. Assets not subject to market risk include \$11,610 million of physical and other assets. (2)

(3)

Liabilities not subject to market risk include \$13,018 million of payroll related and other liabilities. (4)

		As at October 31	, 2019
	Market ri	sk measure	
Balance shee		Non-traded	Non-traded risk
amour	nt Traded risk (1)	risk (2)	primary risk sensitivity
. ,		. ,	Interest rate
38,34	5 22,287	16,058	Interest rate
,	,	,	Interest rate, credit spread
102,470	0 –	102,470	Interest rate, credit spread, equity
306,96	1 246,068	60,893	Interest rate
			Interest rate
,	,	,	Interest rate
· · ·	/	· · · /	Interest rate
1,663	3 –	1,663	Interest rate
			Interest rate, foreign exchange
,	,	75,154	Interest rate
6,434	4		
\$ 1,428,93	5 \$ 526,917	\$ 895,584	
\$ 886,00	5 \$ 99,137	\$ 786,868	Interest rate
1,66	3 –	1,663	Interest rate
35,06	9 35,069	-	
226,58	6 218,612	7,974	Interest rate
98,543		2,031	Interest rate, foreign exchange
79,040	0 8,918	70,122	Interest rate
,		9,815	Interest rate
8,58	9		
\$ 1,345,31	0 \$ 458,248	\$ 878,473	
\$ 83,62	5		
\$ 1,428,93	5		
	\$ 26,31 38,34 146,53 102,47 306,96 426,08 195,87 (3,10 1,66 79,80 6,43 \$ 1,428,933 \$ 886,00 1,66 35,06 226,58 98,54 79,04 9,81 8,58 \$ 1,345,31 \$ 83,62	Balance sheet amount Traded risk (1) \$ 26,310 38,345 \$ - 22,287 146,534 102,470 136,609 102,470 - 306,961 246,068 426,086 10,876 195,870 7,111 (3,100) - 101,560 99,318 79,802 4,648 6,434 \$ 526,917 \$ 886,005 \$ 99,137 1,663 - 35,069 35,069 226,586 218,612 98,543 96,512 79,040 8,918 9,815 - 8,589 -	Market risk measureMarket risk measureNon-traded risk (1)\$ 26,310\$ -\$ 26,31038,34522,28716,058146,534136,6099,925102,470-102,470306,961246,06860,893426,08610,876415,210195,8707,111188,759(3,100)-(3,100)1,663-1,663101,56099,3182,24279,8024,64875,154\$ 1,428,935\$ 526,917\$ 895,584\$ 886,005\$ 99,137\$ 786,8681,663-1,66335,069-1,66335,069-1,663226,586218,6127,97498,54396,5122,03179,0408,91870,1229,815-9,8158,589-9,815\$ 1,345,310\$ 458,248\$ 878,473

(1) Traded risk includes positions that are classified or designated as FVTPL and positions whose revaluation gains and losses are reported in revenue. Market risk measures of VaR and SVaR and stress testing are used as risk controls for traded risk.

(2) Non-traded risk includes positions used in the management of the SIRR and other non-trading portfolios. Other material non-trading portfolios include positions from RBC Insurance® and investment securities, net of applicable allowance, not included in SIRR.

3) Assets not subject to market risk include \$6,434 million of physical and other assets.

(4) Liabilities not subject to market risk include \$8,589 million of payroll related and other liabilities.

Liquidity and funding risk

Liquidity and funding risk (liquidity risk) is the risk that we may be unable to generate sufficient cash or its equivalents in a timely and cost-effective manner to meet our commitments as they come due. Liquidity risk arises from mismatches in the timing and value of on-balance sheet and off-balance sheet cash flows.

Our Liquidity Risk Management Framework (LRMF) is designed to ensure that we have sufficient liquidity to satisfy current and prospective commitments in both normal and stressed conditions. There have been no material changes to our LRMF as described in our 2019 Annual Report.

We continue to maintain liquidity and funding that is appropriate for the execution of our strategy. Liquidity risk remains well within our risk appetite.

On January 1, 2020, the OSFI regulatory minimum for the Net Stable Funding Ratio (NSFR) of 100% became effective, in accordance with the revised LAR guidelines. The NSFR is determined based on the liquidity characteristics and maturity profile of our assets, liabilities and off-balance sheet exposures and is intended to reduce structural funding risk by requiring banks to maintain a surplus of available stable funding over the required stable funding. We do not anticipate any challenges in meeting this requirement. The requirement to disclose consolidated NSFR and its major components will become effective for Canadian D-SIBs on January 31, 2021.

Liquidity reserve

Our liquidity reserve consists of available unencumbered liquid assets as well as uncommitted and undrawn central bank borrowing facilities that could be accessed under extraordinary circumstances subject to satisfying certain preconditions as set by various Central Banks (e.g., BoC, the Fed, Bank of England, and Bank of France).

To varying degrees, unencumbered liquid assets represent a ready source of funding. Unencumbered assets are the difference between total and encumbered assets from both on- and off-balance sheet sources. Encumbered assets, in turn, are not considered a source of liquidity in measures of liquidity risk.

Although unused wholesale funding capacity, which is regularly assessed, could be another potential source of liquidity to mitigate stressed conditions, it is excluded in the determination of the liquidity reserve.

			As at January 31, 202	0	
(Millions of Canadian dollars)	Bank-owned liquid assets	Securities received as collateral from securities financing and derivative transactions	Total liquid assets	Encumbered liquid assets	Unencumbered liquid assets
Cash and due from banks	\$ 34,120	\$ –	\$ 34,120	\$ 2.899	\$ 31,221
Interest-bearing deposits with banks Securities issued or guaranteed by sovereigns, central	31,331	- -	31,331	331	31,000
banks or multilateral development banks (1)	221,047	327,977	549,024	381,064	167,960
Other securities	97,168	116,376	213,544	93,188	120,356
Undrawn credit lines granted by central banks (2)	7,679	-	7,679	-	7,679
Other assets eligible as collateral for discount (3)	107,727	-	107,727	-	107,727
Other liquid assets (4)	21,955	-	21,955	20,993	962
Total liquid assets	\$ 521,027	\$ 444,353	\$ 965,380	\$ 498,475	\$ 466,905

					As at O	ctober 31, 2019)			
(Millions of Canadian dollars)	Bank-owned liquid assets			Securities received as collateral from securities financing and derivative transactions		Total liquid assets		Encumbered liquid assets		ncumbered quid assets
Cash and due from banks	\$	26,310	\$	-	\$	26,310	\$	2,860	\$	23,450
Interest-bearing deposits with banks		38,345		-		38,345		329		38,016
Securities issued or guaranteed by sovereigns, central										
banks or multilateral development banks (1)		206,960		311,019		517,979	1	345,753		172,226
Other securities		90,026		115,261		205,287		96,184		109,103
Undrawn credit lines granted by central banks (2)		9,534		_		9,534		-		9,534
Other assets eligible as collateral for discount (3)		109,327		_		109,327		-		109,327
Other liquid assets (4)		21,732		-		21,732		21,316		416
Total liquid assets	\$	502,234	\$	426,280	\$	928,514	\$ 4	466,442	\$	462,072

	As at							
(Millions of Canadian dollars)	January 31 2020	October 31 2019						
Royal Bank of Canada Foreign branches Subsidiaries	\$ 232,799 64,856 169,250	\$ 224,063 71,062 166,947						
Total unencumbered liquid assets	\$ 466,905	\$ 462,072						

(1) Includes liquid securities issued by provincial governments and U.S. government-sponsored entities working under U.S. Federal government's conservatorship (e.g., Federal National Mortgage Association and Federal Home Loan Mortgage Corporation).

(2) Includes loans that qualify as eligible collateral for the discount window facility available to us at the Federal Reserve Bank of New York (FRBNY). Amounts are face value and would be subject to collateral margin requirements applied by the FRBNY to determine collateral value/borrowing capacity. Access to the discount window borrowing program is conditional on meeting requirements set by the FRBNY and borrowings are typically expected to be infrequent and due to uncommon occurrences requiring temporary accommodation.

(3) Represents our unencumbered Canadian dollar non-mortgage loan book (at face value) that could, subject to satisfying conditions precedent to borrowing and application of prescribed collateral margin requirements, be pledged to the BoC for advances under its Emergency Lending Assistance (ELA) program. ELA is not considered a source of available liquidity in our normal liquidity risk profile but could in extraordinary circumstances, where normal market liquidity is seriously impaired, allow us and other banks to monetize assets eligible as collateral to meet requirements and mitigate further market liquidity disruption. The balance also includes our unencumbered mortgage loans that qualify as eligible collateral at Federal Home Loan Bank (FHLB).

(4) Encumbered liquid assets amount represents cash collateral and margin deposit amounts pledged related to over-the-counter (OTC) and exchange-traded derivative transactions.

The liquidity reserve is typically most affected by routine flows of client banking activity where liquid asset portfolios adjust to the change in cash balances, and additionally from capital markets activities where business strategies and client flows may also affect the addition or subtraction of liquid assets in the overall calculation of the liquidity reserve. Corporate Treasury also affects liquidity reserves through the management of funding issuances where reserves absorb timing mismatches between debt issuances and deployment into business activities.

Q1 2020 vs. Q4 2019

Total liquid assets increased \$37 billion or 4%, primarily due to increase in on-balance sheet securities and securities received as collateral under reverse repurchase agreements and collateral swap transactions. However, the increase in collateral received was offset with a corresponding increase in collateral pledged under encumbered liquid assets due to repurchase transactions and collateral swap transactions.

Asset encumbrance

The table below provides a summary of our on- and off-balance sheet amounts for cash, securities and other assets, distinguishing between those that are encumbered or available for sale or use as collateral in secured funding transactions. Other assets, such as mortgages and credit card receivables, can also be monetized, albeit over longer timeframes than those required for marketable securities. As at January 31, 2020, our unencumbered assets available as collateral comprised 28% of total assets (October 31, 2019 – 29%).

Asset encumbrance

					As	at						
			January 31					October 31				
			2020			2019						
	Encumb	ered	Unencur		Encumb	pered	Unencum					
	Pledged as		Available as			Pledged as		Available as				
(Millions of Canadian dollars)	collateral	Other (1)	collateral (2)	Other (3)	Total	collateral	Other (1)	collateral (2)	Other (3)	Total		
Cash and due from banks	\$ –	\$ 2,899	\$ 31,221	\$ -	\$ 34,120	\$ -	\$ 2,860	\$ 23,450 \$	\$ - \$	26,310		
Interest-bearing deposits												
with banks	-	331	31,000	-	31,331	-	329	38,016	-	38,345		
Securities												
Trading	44,278	-	98,240	2,497	145,015	44,431	-	99,420	2,683	146,534		
Investment, net of												
applicable allowance	16,481	-	105,122	49	121,652	16,376	-	86,045	49	102,470		
Assets purchased under reverse												
repurchase agreements and												
securities borrowed (4)	432,249	23,468	34,221	5,578	495,516	399,013	22,793	49,325	5,214	476,345		
Loans												
Retail												
Mortgage securities	30,834	-	41,281	-	72,115	31,345	-	40,401	-	71,746		
Mortgage loans	49,997	-	21,210	170,882	242,089	42,103	-	22,598	171,644	236,345		
Non-mortgage loans	7,129	-	59,583	49,925	116,637	7,094	-	62,204	48,697	117,995		
Wholesale	-	-	35,226	167,012	202,238	-	-	34,882	160,988	195,870		
Allowance for loan losses	-	-	-	(3,139)	· · · · · ·	-	-	-	(3,100)	(3,100)		
Segregated fund net assets	-	-	-	1,788	1,788	-	-	-	1,663	1,663		
Other												
Derivatives	-	-	-	93,982	93,982	-	-	-	101,560	101,560		
Others (5)	20,993	-	962	72,334	94,289	21,316	-	416	64,504	86,236		
Total assets	\$ 601,961	\$ 26,698	\$ 458,066	\$ 560,908	\$ 1,647,633	\$ 561,678	\$ 25,982	\$ 456,757 \$	\$ 553,902 \$	1,598,319		

(1) Includes assets restricted from use to generate secured funding due to legal or other constraints.

(2) Includes loans that could be used to collateralize central bank advances. Our unencumbered Canadian dollar non-mortgage loan book (at face value) could, subject to satisfying conditions for borrowing and application of prescribed collateral margin requirements, be pledged to the BoC for advances under its ELA program. It also includes our unencumbered mortgage loans that qualify as eligible collateral at FHLB. We also lodge loans that qualify as eligible collateral for the discount window facility available to us at the FRBNY. ELA and other central bank facilities are not considered sources of available liquidity in our normal liquidity risk profile. However, banks could monetize assets meeting collateral criteria during periods of extraordinary and severe disruption to market-wide liquidity.

(3) Other unencumbered assets are not subject to any restrictions on their use to secure funding or as collateral but would not be considered readily available since they may not be acceptable at central banks or for other lending programs.

(4) Includes bank-owned liquid assets and securities received as collateral from off-balance sheet securities financing, derivative transactions, and margin lending. Includes \$23.5 billion (October 31, 2019 – \$22.8 billion) of collateral received through reverse repurchase transactions that cannot be rehypothecated in its current legal form.

(5) The Pledged as collateral amount represents cash collateral and margin deposit amounts pledged related to OTC and exchange-traded derivative transactions

Funding

Funding strategy

Core funding, comprising capital, longer-term wholesale liabilities and a diversified pool of personal and, to a lesser extent, commercial and institutional deposits, is the foundation of our structural liquidity position.

Deposit and funding profile

As at January 31, 2020, relationship-based deposits, which are the primary source of funding for retail loans and mortgages, were \$601 billion or 50% of our total funding (October 31, 2019 – \$594 billion or 51%). The remaining portion is comprised of short- and long-term wholesale funding.

Funding for highly liquid assets consists primarily of short-term wholesale funding that reflects the monetization period of those assets. Long-term wholesale funding is used mostly to fund less liquid wholesale assets and to support liquidity asset buffers.

On April 18, 2018, the Department of Finance published bail-in regulations under the Canada Deposit Insurance Corporation (CDIC) Act and the Bank Act, which became effective September 23, 2018. Senior long-term debt issued by the bank on or after September 23, 2018, that has an original term greater than 400 days and is marketable, subject to certain exceptions, is subject to the Canadian Bank Recapitalization (Bail-in) regime. Under the Bail-in regime, in circumstances when the Superintendent of Financial Institutions has determined that a bank may no longer be viable, the Governor in Council may, upon a recommendation of the Minister of Finance that he or she is of the opinion that it is in the public interest to do so, grant an order directing the CDIC to convert all or a portion of certain shares and liabilities of that bank into common shares. As at January 31, 2020, the notional value of issued and outstanding long-term debt subject to conversion under the Bail-in regime was \$26,684 million (October 31, 2019 – \$20,320 million).

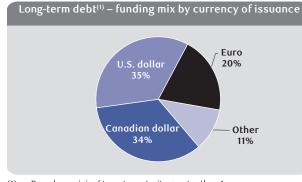
For further details on our wholesale funding, refer to the Composition of wholesale funding tables below.

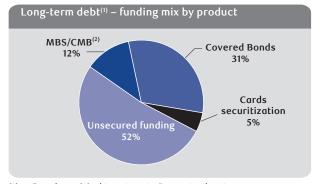
Long-term debt issuance

Our wholesale funding activities are well-diversified by geography, investor segment, instrument, currency, structure and maturity. We maintain an ongoing presence in different funding markets, which allows us to continuously monitor market developments and trends, identify opportunities and risks, and take appropriate and timely actions. We operate long-term debt issuance registered programs. The following table summarizes these programs with their authorized limits by geography.

Programs by geography		
Canada	U.S.	Europe/Asia
• Canadian Shelf Program – \$25 billion	• U.S. Shelf Program – US\$40 billion	 European Debt Issuance Program – US\$40 billion Global Covered Bond Program – €32 billion
		• Japanese Issuance Programs – ¥1 trillion

We also raise long-term funding using Canadian Senior Notes, Canadian National Housing Act MBS, Canada Mortgage Bonds, credit card receivable-backed securities, Kangaroo Bonds (issued in the Australian domestic market by foreign firms) and Yankee Certificates of Deposit (issued in the U.S. domestic market by foreign firms). We continuously evaluate opportunities to expand into new markets and untapped investor segments since diversification expands our wholesale funding flexibility, minimizes funding concentration and dependency, and generally reduces financing costs. As presented in the following charts, our current long-term debt profile is well-diversified by both currency and product. Maintaining competitive credit ratings is also critical to cost-effective funding.





(1) Based on original term to maturity greater than 1 year

Based on original term to maturity greater than 1 year
 Mortgage-backed securities and Canada Mortgage Bonds

The following table provides our composition of wholesale funding based on remaining term to maturity:

Composition of wholesale funding (1)

		As at January 31, 2020									
	Less than 1	1 to 3	3 to 6	6 to 12	Less than 1	1 year	2 years and				
(Millions of Canadian dollars)	month	months	months	months	year sub-total	to 2 years	greater	Total			
Deposits from banks (2)	\$ 5,476	\$ 44	\$ –	\$ 33	\$ 5,553	\$ -	\$ -	\$ 5,553			
Certificates of deposit and commercial paper	3,331	17,696	17,345	16,815	55,187	544	-	55,731			
Asset-backed commercial paper (3)	5,120	4,846	3,719	3,169	16,854	-	-	16,854			
Senior unsecured medium-term notes (4)	1,626	5,323	4,982	13,682	25,613	14,993	37,389	77,995			
Senior unsecured structured notes (5)	34	140	598	1,179	1,951	2,077	5,065	9,093			
Mortgage securitization	-	1,795	371	1,517	3,683	2,720	11,162	17,565			
Covered bonds/asset-backed securities (6)	2,647	3,656	-	8,822	15,125	11,731	24,497	51,353			
Subordinated liabilities	-	-	935	1,476	2,411	1,000	5,780	9,191			
Other (7)	8,973	2,431	3,133	375	14,912	-	10,400	25,312			
Total	\$ 27,207	\$ 35,931	\$ 31,083	\$ 47,068	\$ 141,289	\$ 33,065	\$ 94,293	\$ 268,647			
Of which:											
– Secured	\$ 15,438	\$ 11,838	\$ 5,546	\$ 13,508	\$ 46,330	\$ 14,451	\$ 35,659	\$ 96,440			
– Unsecured	11,769	24,093	25,537	33,560	94,959	18,614	58,634	172,207			

		As at October 31, 2019									
	L	ess than 1	1 to 3	3 to 6	6 to 12	Less than 1	1 year	2 years ai	nd		
(Millions of Canadian dollars)		month	months	months	months	year sub-total	to 2 years	great	er	Total	
Deposits from banks (2)	\$	4,087 \$	- \$	388 \$	33 9	\$ 4,508 \$	-	\$	- \$	4,508	
Certificates of deposit and commercial paper		2,917	12,037	17,390	22,038	54,382	132		-	54,514	
Asset-backed commercial paper (3)		2,542	3,188	6,543	3,905	16,178	-		-	16,178	
Senior unsecured medium-term notes (4)		11	2,293	9,183	14,188	25,675	18,856	29,75	6	74,287	
Senior unsecured structured notes (5)		847	676	171	1,342	3,036	1,810	5,04	-7	9,893	
Mortgage securitization		-	524	1,796	727	3,047	3,523	11,01	5	17,585	
Covered bonds/asset-backed securities (6)		-	-	6,282	2,305	8,587	14,337	23,42	6	46,350	
Subordinated liabilities		-	2,000	-	998	2,998	2,500	4,29	0	9,788	
Other (7)		9,489	1,224	157	1,663	12,533	141	9,97	6	22,650	
Total	\$	19,893 \$	21,942 \$	41,910 \$	47,199 \$	\$ 130,944 \$	41,299	\$ 83,51	0 \$	255,753	
Of which:											
– Secured	\$	10,339 \$	3,929 \$	14,621 \$	6,937 \$	\$ 35,826 \$	17,860	\$ 34,44	1 \$	88,127	
– Unsecured		9,554	18,013	27,289	40,262	95,118	23,439	49,06	9	167,626	

(1) Excludes bankers' acceptances and repos.

(2) Excludes deposits associated with services we provide to banks (e.g., custody, cash management).

(3) Only includes consolidated liabilities, including our collateralized commercial paper program.

Includes deposit notes.

(5) Includes notes where the payout is tied to movements in foreign exchange, commodities and equities.

(6) Includes credit card and mortgage loans.

(7) Includes tender option bonds (secured) of \$7,889 million (October 31, 2019 – \$8,014 million), bearer deposit notes (unsecured) of \$4,399 million (October 31, 2019 – \$4,813 million), other long-term structured deposits (unsecured) of \$10,245 million (October 31, 2019 – \$9,823 million), and FHLB advances (secured) of \$2,779 million (October 31, 2019 - \$nil).

Credit ratings

Our ability to access unsecured funding markets and to engage in certain collateralized business activities on a cost-effective basis are primarily dependent upon maintaining competitive credit ratings. Credit ratings and outlooks provided by rating agencies reflect their views and methodologies. Ratings are subject to change, based on a number of factors including, but not limited to, our financial strength, competitive position, liquidity and other factors not completely within our control.

Other than as noted below, there have been no changes to our major credit ratings as disclosed in our 2019 Annual Report.

Credit ratings(1)

		As at February	20, 2020	
	Short-term debt	Legacy senior long-term debt (2)	Senior long- term debt (3)	Outlook
Moody's (4)	P-1	Aa2	A2	stable
Standard & Poor's (5)	A-1+	AA-	A	stable
Fitch Ratings (6)	F1+	AA	AA	stable
DBRS (7)	R-1(high)	AA (high)	AA	stable

(1) Credit ratings are not recommendations to purchase, sell or hold a financial obligation inasmuch as they do not comment on market price or suitability for a particular investor. Ratings are determined by the rating agencies based on criteria established from time to time by them, and are subject to revision or withdrawal at any time by the rating organization.

(2) Includes senior long-term debt issued prior to September 23, 2018 and senior long-term debt issued on or after September 23, 2018 which is excluded from the Bail-in regime.

(3) Includes senior long-term debt issued on or after September 23, 2018 which is subject to conversion under the Bail-in regime.

(4) On August 1, 2019, Moody's affirmed our ratings with a stable outlook.

(5) On June 24, 2019, Standard & Poor's affirmed our ratings with a stable outlook.

(6) On January 17, 2020, Fitch Ratings affirmed our ratings with a stable outlook.

(7) On June 18, 2019, DBRS revised our outlook to stable from positive, upgraded our legacy senior long-term debt rating to AA (high) from AA and upgraded our senior long-term debt rating to AA from AA (low).

Additional contractual obligations for rating downgrades

We are required to deliver collateral to certain counterparties in the event of a downgrade to our current credit rating. The following table provides the additional collateral obligations required at the reporting date in the event of a one-, two- or three-notch downgrade to our credit ratings. These additional collateral obligations are incremental requirements for each successive downgrade and do not represent the cumulative impact of multiple downgrades. The amounts reported change periodically as a result of several factors, including the transfer of trading activity to centrally cleared financial market infrastructures and exchanges, the expiration of transactions with downgrade triggers, the imposition of internal limitations on new agreements to exclude downgrade triggers, as well as normal course mark-to-market. There is no outstanding senior debt issued in the market that contains rating triggers that would lead to early prepayment of principal.

Additional contractual obligations for rating downgrades

	As at											
				uary 31 020						ober 31 2019		
(Millions of Canadian dollars)	One-notc downgrad			o-notch ngrade		ee-notch wngrade		e-notch vngrade		o-notch ngrade	Three-notch downgrade	
Contractual derivatives funding or margin requirements Other contractual funding or margin requirements (1)	\$ 194 205	-	\$	65 45	\$	135 9	\$	165 180	\$	64 176	\$	124

(1) Includes Guaranteed Investment Certificates (GICs) issued by our municipal markets business out of New York.

Liquidity Coverage Ratio (LCR)

The LCR is a Basel III metric that measures the sufficiency of high-quality liquid assets (HQLA) available to meet liquidity needs over a 30-day period in an acute stress scenario. The Basel Committee on Banking Supervision (BCBS) and OSFI regulatory minimum coverage level for LCR is currently 100%.

OSFI requires Canadian banks to disclose the LCR using the standard Basel disclosure template and calculated using the average of daily LCR positions during the quarter.

Liquidity coverage ratio common disclosure template (1)

	For the three months ended									
		Januar	•			Octob 201				
		202	-							
(Millions of Canadian dollars, success accessing, amounts)		Total unweighted value (average) (2)		otal weighted ue (average)				otal weighted lue (average)		
(Millions of Canadian dollars, except percentage amounts)	va	ide (dverdge) (2)	vu	ue (uverage)	vulue (uveruge) (2)	vu	iue (uveruge)		
High-quality liquid assets								224 625		
Total high-quality liquid assets (HQLA)		n.a.	\$	249,762		n.a.	Ş	234,605		
Cash outflows										
Retail deposits and deposits from small business customers, of which:	\$	271,090		21,973	\$	266,868		20,417		
Stable deposits (3)		96,833		2,905		89,565		2,687		
Less stable deposits		174,257		19,068		177,303		17,730		
Unsecured wholesale funding, of which:		308,718		142,391		303,129		137,946		
Operational deposits (all counterparties) and deposits in										
networks of cooperative banks (4)		135,265		32,379		133,484		31,907		
Non-operational deposits		144,506		81,065		145,888		82,282		
Unsecured debt		28,947		28,947		23,757		23,757		
Secured wholesale funding		n.a.		30,074		n.a.		33,904		
Additional requirements, of which:		239,573		52,559		265,287		72,268		
Outflows related to derivative exposures and other										
collateral requirements		34,796		15,092		57,869		33,108		
Outflows related to loss of funding on debt products		7,633		7,633		7,761		7,761		
Credit and liquidity facilities		197,144		29,834		199,657		31,399		
Other contractual funding obligations (5)		20,196		20,196		19,108		19,108		
Other contingent funding obligations (6)		460,167		8,091		441,413		7,999		
Total cash outflows		n.a.	\$	275,284		n.a.	\$	291,642		
Cash inflows										
Secured lending (e.g., reverse repos)	\$	281,430	\$	46,792	\$	313,698	\$	52,469		
Inflows from fully performing exposures		14,151		9,708		15,692		11,154		
Other cash inflows		25,039		25,039		43,442		43,442		
Total cash inflows		n.a.	\$	81,539		n.a.	\$	107,065		
			Т	otal adjusted value		Total adjust				
			ć		-		<i>.</i>	value		
Total HQLA Total net cash outflows			\$	249,762			\$	234,605		
				193,745				184,577		
Liquidity coverage ratio				129%				127%		

The LCR is calculated in accordance with OSFI's LAR guideline, which, in turn, reflects liquidity-related requirements issued by the BCBS. The LCR for the quarter ended (1) January 31, 2020 is calculated as an average of 62 daily positions.

(2) With the exception of other contingent funding obligations, unweighted inflow and outflow amounts are items maturing or callable in 30 days or less. Other contingent funding obligations also include debt securities with remaining maturity greater than 30 days.

(3)As defined by the BCBS, stable deposits from retail and small business customers are deposits that are insured and are either held in transactional accounts or the bank has an established relationship with the client making the withdrawal unlikely. Operational deposits from customers other than retail and small and medium-sized enterprises (SMEs), are deposits which clients need to keep with the bank in order to

(4)

facilitate their access and ability to use payment and settlement systems primarily for clearing, custody and cash management activities. Other contractual funding obligations primarily include outflows from unsettled securities trades and outflows from obligations related to securities sold short. (5)

Other contingent funding obligations include outflows related to other off-balance sheet facilities that carry low LCR runoff factors (0% - 5%). (6)

not applicable

We manage our LCR position within a target range that reflects our liquidity risk tolerance and takes into account business mix, asset composition and funding capabilities. The range is subject to periodic review in light of changes to internal requirements and external developments.

We maintain HQLAs in major currencies with dependable market depth and breadth. Our treasury management practices ensure that the levels of HQLA are actively managed to meet target LCR objectives. Our Level 1 assets, as calculated according to OSFI LAR and the BCBS LCR requirements, represent 81% of total HQLA. These assets consist of cash, placements with central banks and highly rated securities issued or guaranteed by governments, central banks and supranational entities.

LCR captures cash flows from on- and off-balance sheet activities that are either expected or could potentially occur within 30 days in an acute stress scenario. Cash outflows result from the application of withdrawal and non-renewal factors to demand and term deposits, differentiated by client type (wholesale, retail and small- and medium-sized enterprises). Cash outflows also arise from business activities that create contingent funding and collateral requirements, such as repo funding, derivatives, short sales of securities and the extension of credit and liquidity commitments to clients. Cash inflows arise primarily from maturing secured loans, interbank loans and non-HQLA securities.

LCR does not reflect any market funding capacity that we believe would be available in a stress situation. All maturing wholesale debt is assigned 100% outflow in the LCR calculation.

Q1 2020 vs. Q4 2019

The average LCR for the quarter ended January 31, 2020 was 129%, which translates into a surplus of approximately \$56 billion, compared to 127% in the prior quarter. The increase in the LCR surplus from the previous quarter is primarily due to a change in funding and business mix.

Contractual maturities of financial assets, financial liabilities and off-balance sheet items

The following tables provide remaining contractual maturity profiles of all our assets, liabilities, and off-balance sheet items at their carrying value (e.g., amortized cost or fair value) at the balance sheet date. Off-balance sheet items are allocated based on the expiry date of the contract.

Details of contractual maturities and commitments to extend funds are a source of information for the management of liquidity risk. Among other purposes, these details form a basis for modelling a behavioural balance sheet with effective maturities to calculate liquidity risk measures. For further details, refer to the Risk measurement section within the Liquidity and funding risk section of our 2019 Annual Report.

	As at January 31, 2020										
(Millions of Canadian dollars)	Less than 1 month	1 to 3 months	3 to 6 months	6 to 9 months	9 to 12 months	1 year to 2 years	2 years to 5 years	5 years and greater	With no specific maturity	Total	
Assets Cash and deposits with banks	\$ 62,994	\$ 1	\$ -	\$	\$ _	\$ -	\$ _	\$ -	\$ 2,456	\$ 65,451	
Securities Trading (1)	90,235	22	. 69	21	. 19	. 96	108	9,557	44,888	145,015	
Investment, net of	,							,	,	,	
applicable allowance Assets purchased under reverse repurchase agreements and	2,080	9,158	4,099	3,377	4,767	27,704	22,850	47,118	499	121,652	
securities borrowed	177,395	80,269	25,806	13,439	14,467	127	-	-	12,684	324,187	
Loans, net of applicable allowance Other Customers' liability	23,953	18,689	28,999	26,978	28,199	118,544	243,370	52,401	88,807	629,940	
under acceptances Derivatives	13,112	5,595 6,115	129 4,012	-	4	-	- 16,171	- 47,169	(39)	18,801	
Other financial assets	4,718 27,883	1,633	1,833	3,510 127	3,731 109	8,555 208	303	1,922	1 2,333	93,982 36,351	
Total financial assets Other non-financial assets	\$402,370 3,974	\$121,482 2,189	\$64,947 120	\$47,452 191	\$51,296 415	\$155,234 1,320	\$282,802 1,812	\$ 158,167 6,416	\$151,629 24,488	\$1,435,379 40,925	
Total assets	\$406,344	\$123,671	\$65,067	\$47,643	\$51,711	\$156,554	\$284,614	\$ 164,583	\$176,117	\$1,476,304	
Liabilities and equity Deposits (2)											
Unsecured borrowing Secured borrowing	\$ 52,623 2,671	\$ 47,214 9,551	\$43,686 6,087	\$45,994 3,868	\$29,521 5,363	\$ 24,937 7,476	\$ 58,240 19,525	\$ 17,557 5,897	\$477,175	\$ 796,947 60,438	
Covered bonds Other	2,646	2,199	-	5,261	1,848	9,909	12,501	10,535	-	44,899	
Acceptances Obligations related to securities	13,116	5,594	129	-	4	-	-	-	1	18,844	
sold short Obligations related to assets sold under repurchase agreements and	35,624	-	-	-	-	-	-	-	-	35,624	
securities loaned	214,377	30,867	2,064	354	5	-	-	-	6,724	254,391	
Derivatives Other financial liabilities	5,416 25,633	5,933 2,724	4,336 3,518	3,708 543	4,033 760	8,038 796	16,185 2,177	46,919 11,478	43 499	94,611 48,128	
Subordinated debentures	25,055	2,724	5,518	- 545	/60	/90	2,177	8,953	499	48,128 9,269	
Total financial liabilities					· · · · ·		\$108,944			\$1,363,151	
Other non-financial liabilities Equity	1,417	946	225	975 -	2,079	835	757	11,999 -	9,859 84,061	29,092 84,061	
Total liabilities and equity	\$353,523	\$105,028	\$60,045	\$60,703	\$43,613	\$ 51,991	\$109,701	\$ 113,338	\$578,362	\$1,476,304	
Off-balance sheet items Financial guarantees Commitments to extend credit	\$ 666 2,385	\$ 1,775 6,563	\$ 2,854 9,146	\$ 2,452 7,772	\$ 2,498 12,032	\$ 844 40,296	\$ 5,207 165,908	\$ 48 16,415	\$	\$ 16,395 261,860	
Other credit-related commitments Other commitments	729 83	1,069 12	1,915 18	1,388 18	1,317 18	239 97	524 224	8 395	90,838 491	98,027 1,356	
Total off-balance sheet items	\$ 3,863	\$ 9,419	\$13,933	\$11,630	\$15,865	\$ 41,476	\$171,863	\$ 16,866	\$ 92,723	\$ 377,638	

Trading debt securities classified as FVTPL have been included in the less than 1 month category as there is no expectation to hold these assets to their contractual maturity.
 A major portion of relationship-based deposits are repayable on demand or at short notice on a contractual basis while, in practice, these customer balances form a core base

for our operations and liquidity needs, as explained in the preceding Deposit and funding profile section.

										As at O	cto	ber 31, 2019)							
(Millions of Canadian dollars)		Less than 1 month		1 to 3 months		3 to 6 months		6 to 9 months	12	9 to 2 months		1 year to 2 years		2 years to 5 years	a	5 years nd greater		With no specific maturity		Total
Assets																				
Cash and deposits with banks	\$	62,095	Ş	3	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,557	\$	64,655
Securities Trading (1)		96,229		14		45		10		21		64		97		8,601		41,453		146,534
Investment, net of		90,229		14		43		10		21		04		97		8,001		41,435		140,554
applicable allowance		3,069		3,960		3,857		2,886		3,511		16,203		24,638		43,907		439		102,470
Assets purchased under reverse		5,005		5,500		5,057		2,000		5,511		10,205		21,000		15,507		155		102,170
repurchase agreements and																				
securities borrowed		164,870		62,971		41,569		10,985		14,993		133		-		-		11,440		306,961
Loans, net of applicable allowance		23,097		17,145		25,854		28,796		29,533		120,524		232,364		51,049		90,494		618,856
Other																				
Customers' liability																				
under acceptances		12,940		5,119		27												(24)		18,062
Derivatives		5,668		8,635		4,265		3,227		3,547		9,815		18,753		47,649		1		101,560
Other financial assets		28,296		1,400		1,193		48		61		169		277		1,861		2,164		35,469
Total financial assets	\$	396,264	\$	99,247	\$	76,810	\$	45,952	\$	51,666	\$	146,908	\$	276,129	\$	153,067	\$	148,524	\$	1,394,567
Other non-financial assets		2,907		1,475		108		865		109		1,373		1,507		1,696		24,328		34,368
Total assets	\$	399,171	\$	100,722	\$	76,918	\$	46,817	\$	51,775	\$	148,281	\$	277,636	\$	154,763	\$	172,852	\$	1,428,935
Liabilities and equity																				
Deposits (2)																				
Unsecured borrowing	\$	50,872	\$,	\$,	\$	38,376	\$,	\$	28,886	\$	51,557	\$,	\$	470,027	\$	786,391
Secured borrowing		2,588		4,874		10,679		3,596		2,395		10,351		19,535		5,755		-		59,773
Covered bonds		-		-		4,828		-		5,255		10,818		13,263		5,677		-		39,841
Other		10.011																		10.001
Acceptances		12,944		5,119		27		-		-		-		-		-		1		18,091
Obligations related to securities sold short		35,069																		35,069
Obligations related to assets		33,009		-		_		-		-		-		-		_		-		33,009
sold under repurchase																				
agreements and																				
securities loaned		192,855		14,281		13,462		6		-		4		_		-		5,978		226,586
Derivatives		6,325		7,779		4,519		3,430		3,442		9,155		17,348		46,515		30		98,543
Other financial liabilities		29,008		1,066		849		290		443		272		701		8,510		691		41,830
Subordinated debentures		-		-		-		-		-		-		316		9,499		-		9,815
Total financial liabilities	Ś	329,661	\$	69 370	Ś	81,671	Ś	45,698	Ś	54,420	\$	59 486	Ś	102,720	Ś	96,186	Ś	476,727	Ś	1,315,939
Other non-financial liabilities	Ŷ	1,314	Ŷ	5,288	Ŷ	276	Ŷ	154	Ŷ	142	Ŷ	898	Ŷ	903	Ŷ	11,179	Ŷ	9,217	Ŷ	29,371
Equity								-		-		-		-				83,625		83,625
Total liabilities and equity	\$	330,975	\$	74,658	\$	81.947	\$	45,852	\$	54,562	\$	60,384	\$	103,623	\$	107.365	\$,	Ś	1,428,935
Off-balance sheet items		,		,		,		- ,		,		,		,	•	. ,				
Financial guarantees	\$	427	\$	2,409	\$	2,088	\$	2,829	\$	2,382	\$	986	\$	5,394	\$	45	\$	48	Ś	16,608
Lease commitments	Ŧ	69	Ŧ	137	Ŧ	204	7	197	Ŧ	198	Ŧ	719	-	1,619	Ŧ	3,032	Ŧ	-	Ŧ	6,175
Commitments to extend credit		2,996		6,367		8,821		10,655		11,638		41,740		150,267		27,827		3,865		264,176
Other credit-related commitments		469		934		1,615		1,863		1,365		191		634		10		92,392		99,473
Other commitments		35		-		-		-		-		-		-		-		484		519
Total off-balance sheet items	\$	3,996	\$	9,847	\$	12,728	\$	15,544	\$	15,583	\$	43,636	\$	157,914	\$	30,914	\$	96,789	\$	386,951
			-	,		, -		,		, -				,	-	,				

(1) Trading debt securities classified as FVTPL have been included in the less than 1 month category as there is no expectation to hold these assets to their contractual maturity.

(2) A major portion of relationship-based deposits are repayable on demand or at short notice on a contractual basis while, in practice, these customer balances form a core base for our operations and liquidity needs, as explained in the preceding Deposit and funding profile section.

Capital management

We continue to manage our capital in accordance with our Capital Management Framework as described in our 2019 Annual Report. In addition, we continue to monitor and prepare for new regulatory capital developments, including the BCBS Basel III reforms, in order to ensure timely and accurate compliance with these requirements as disclosed in the Capital management and Capital, liquidity and other regulatory developments in our 2019 Annual Report, as updated below.

OSFI expects Canadian banks to meet the Basel III targets for CET1, Tier 1 and Total capital ratios. Under Basel III, banks select from two main approaches, the Standardized Approach or the Internal ratings-based (IRB) approach, to calculate their minimum regulatory capital required to support credit, market and operational risks. Effective November 1, 2019, we adopted the Standardized Approach for consolidated regulatory reporting of operational risk as the use of the Advanced Measurement Approach was discontinued by OSFI.

The Financial Stability Board (FSB) has re-designated us as a Global Systemically Important Bank (G-SIB). This designation requires us to maintain a higher loss absorbency requirement (common equity as a percentage of risk-weighted assets) of 1%. As the Domestic Systemically Important Bank (D-SIB) requirement is equivalent to the G-SIB requirement of 1% of RWA, the G-SIB re-designation had no further impact to the loss absorbency requirements on our CET1 ratio.

The following table provides a summary of OSFI's current regulatory target ratios under Basel III and Pillar 2 requirements. We are in compliance with all current capital and leverage requirements imposed by OSFI:

	OSFI regulatory target requirements for large banks under Basel		nks under Basel III	RBC capital and		Minimum including Capital Buffers,		
Basel III capital and leverage ratios	Minimum	Capital Buffers (1)	Minimum including Capital Buffers	D-SIB/G-SIB		leverage ratios as at January 31, 2020	Domestic Stability Buffer (3)	D-SIB/G-SIB surcharge and Domestic Stability Buffer
Common Equity Tier 1	4.5%	2.5%	7.0%	1.0%	8.0%	12.0%	2.0%	10.0%
Tier 1 capital	6.0%	2.5%	8.5%	1.0%	9.5%	13.1%	2.0%	11.5%
Total capital	8.0%	2.5%	10.5%	1.0%	11.5%	14.9%	2.0%	13.5%
Leverage ratio	3.0%	n.a.	3.0%	n.a.	3.0%	4.2%	n.a.	3.0%

(1) The capital buffers include the capital conservation buffer and the countercyclical capital buffer as prescribed by OSFI.

(2) A capital surcharge, equal to the higher of our D-SIB surcharge and the BCBS'S G-SIB surcharge, is applicable to risk-weighted capital.

(3) Effective April 30, 2020, OSFI has raised the level for the Domestic Stability Buffer (DSB) to 2.25% of RWA from 2.0%.

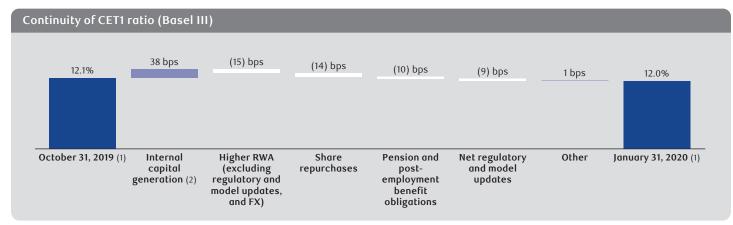
n.a. not applicable.

The following table provides details on our regulatory capital, RWA, and capital and leverage ratios. Our capital position remains strong and our capital and leverage ratios remain well above OSFI regulatory targets.

		As at	
	January 31	October 31	January 31
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	2020	2019	2019
Capital (1)			
CET1 capital	\$ 63,054	\$ 62,184	\$ 57,963
Tier 1 capital	68,709	67,861	64,341
Total capital	78,220	77,888	73,758
Risk-weighted Assets (RWA) used in calculation of capital ratios (1)			
Credit risk	\$428,067	\$ 417,835	\$ 410,003
Market risk	28,415	28,917	34,862
Operational risk	67,243	66,104	63,647
Total RWA	\$523,725	\$ 512,856	\$ 508,512
Capital ratios and Leverage ratio (1)			
CET1 ratio	12.0%	12.1%	11.4%
Tier 1 capital ratio	13.1%	13.2%	12.7%
Total capital ratio	14.9%	15.2%	14.5%
Leverage ratio	4.2%	4.3%	4.3%
Leverage ratio exposure (billions)	\$ 1,630	\$ 1,570	\$ 1,502

(1) Capital, RWA, and capital ratios are calculated using OSFI's (Capital Adequacy Requirements) guideline based on the Basel III framework. The Leverage ratio is calculated using OSFI Leverage Requirements Guideline based on the Basel III framework.

Q1 2020 vs. Q4 2019



(1) Represents rounded figures.

(2) Internal capital generation of \$1.9 billion which represents Net income available to shareholders, less common and preferred shares dividends.

Our CET1 ratio was 12.0%, down 10 bps from last quarter, mainly reflecting higher RWA, share repurchases, the impact of lower discount rates in determining our pension and other post-employment benefit obligations, and the impact of regulatory changes, including the impact of IFRS 16, net of normal course model updates. These factors were partially offset by internal capital generation.

Our Tier 1 capital ratio of 13.1% was down 10 bps, reflecting the factors noted above under the CET1 ratio.

Our Total capital ratio of 14.9% was down 30 bps, reflecting the factors noted above under the Tier 1 ratio. Total capital ratio was also negatively impacted by the net redemption of subordinated debentures.

RWA increased by \$11 billion, mainly driven by business growth in wholesale and personal lending and the net impact of regulatory and model updates. The regulatory and model updates reflect the unfavourable impact of the adoption of IFRS 16, and removal of allowed grandfathering and transitioning treatment for certain securitization and counterparty credit risk exposures, partially offset by the favorable impact of normal course risk parameters changes.

Our Leverage ratio of 4.2% was down 10 bps from last quarter, mainly reflecting share repurchases, the impact of lower discount rates in determining our pension and other post-employment benefit obligations, and the impact of the adoption of IFRS 16. Higher leverage exposures were largely offset by internal capital generation. The increase in leverage exposures was primarily attributable to growth in securities, repo-style transactions, retail and wholesale lending, and derivatives.

Selected capital management activity

The following table provides our selected capital management activity:

	For the three months	s ended January 3	1, 2020
	Issuance or redemption	Number of	
(Millions of Canadian dollars, except number of shares)	date	shares (000s)	Amount
Tier 1 capital			
Common shares activity			
Issued in connection with share-based compensation plans (1)		233	\$ 18
Purchased for cancellation		(6,993)	(86)
Tier 2 capital			
Redemption of December 6, 2024 subordinated debentures (2)	December 6, 2019		\$ (2,000)
Issuance of December 23, 2029 subordinated debentures (2) (3)	December 23, 2019		1,500
Other			
Purchase and cancellation of preferred shares Series C-2 (2)	December 17, 2019	(5)	\$ (8)

(1) Amounts include cash received for stock options exercised during the period and includes fair value adjustments to stock options.

(2) For further details, refer to Note 8 of our Condensed Financial Statements.

(3) Non-Viable Contingent Capital (NVCC) instruments.

On February 27, 2019, we announced a normal course issuer bid (NCIB) to purchase up to 20 million of our common shares, commencing on March 1, 2019 and continuing until February 29, 2020, or such earlier date as we complete the repurchase of all shares permitted under the bid.

For the three-months ended January 31, 2020, the total number of common shares repurchased and cancelled under our NCIB program was approximately 7.0 million. The total cost of the shares repurchased was \$727 million.

Since the inception of the current NCIB, the total number of common shares repurchased and cancelled was approximately 13.6 million, at a cost of approximately \$1,409 million.

We determine the amount and timing of the purchases under the NCIB, subject to prior consultation with OSFI. Purchases may be made through the TSX, the NYSE and other designated exchanges and alternative Canadian trading systems. The price paid for repurchased shares is at the prevailing market price at the time of acquisition.

On December 6, 2019, we redeemed all \$2,000 million of our outstanding 2.99% subordinated debentures due on December 6, 2024 for 100% of their principal amount plus interest accrued to, but excluding, the redemption date.

On December 17, 2019, we purchased for cash 200,000 depositary shares, each representing a one-fortieth interest in a share of our Fixed Rate/Floating Rate Non-Cumulative First Preferred Shares, Series C-2 (C-2 Preferred Shares), for aggregate total consideration, including accrued dividends, of US\$6 million. The purchased depositary and underlying C-2 Preferred Shares were subsequently cancelled. The C-2 Preferred Shares do not qualify as Tier 1 regulatory capital.

On December 23, 2019, we issued \$1,500 million of NVCC subordinated debentures. The notes bear interest at a fixed rate of 2.88% per annum until December 23, 2024, and at the three-month Canadian Dollar Offered Rate (CDOR) plus 0.89% thereafter until their maturity on December 23, 2029.

Selected share data (1)

	A	s at)	anuary 31, 20	020	
(Millions of Canadian dollars, except number of shares and as otherwise noted)	Number of shares (000s)		Amount		Dividends lared per share
	. ,				
Common shares issued Treasury shares – common shares	1,423,918 (706)	Ş	17,577 (72)	\$	1.05
/			. ,		
Common shares outstanding	1,423,212	\$	17,505		
Stock options and awards					
Outstanding	8,545				
Exercisable	4,104				
First preferred shares issued					
Non-cumulative Series W (2)	12,000	\$	300	\$	0.31
Non-cumulative Series AA	12,000		300		0.28
Non-cumulative Series AC	8,000		200		0.29
Non-cumulative Series AE	10,000		250		0.28
Non-cumulative Series AF	8,000		200		0.28
Non-cumulative Series AG	10,000		250		0.28
Non-cumulative Series AZ (3) (4)	20,000		500		0.23
Non-cumulative Series BB (3) (4)	20,000		500		0.23
Non-cumulative Series BD (3) (4)	24,000		600		0.23
Non-cumulative Series BF (3) (4)	12,000		300		0.23
Non-cumulative Series BH (4)	6,000		150		0.31
Non-cumulative Series BI (4)	6,000		150		0.31
Non-cumulative Series BJ (4)	6,000		150		0.33
Non-cumulative Series BK (3) (4)	29,000		725		0.34
Non-cumulative Series BM (3) (4)	30,000		750		0.34
Non-cumulative Series BO (3) (4)	14,000		350		0.30
Non-cumulative Series C-2 (5)	15		23	US\$	16.88
Preferred shares issued	227,015	\$	5,698		
Treasury shares – preferred shares (6)	´ 11		<u>́</u> 1		
Preferred shares outstanding	227,026	\$	5,699		
Dividends					
Common		\$	1,496		
Preferred (7)			65		

(1) For further details about our capital management activity, refer to Note 8 of our Condensed Financial Statements.

(2) Effective February 24, 2010, we have the right to convert these shares into common shares at our option, subject to certain restrictions.

(3) Dividend rate will reset every five years.

(4) NVCC instruments.

(5) Represents 615,400 depositary shares relating to preferred shares Series C-2. Each depositary share represents one-fortieth interest in a share of Series C-2.

(6) Positive amounts represent a short position in treasury shares.

(7) Dividends on preferred shares excludes distributions to non-controlling interests.

As at February 14, 2020, the number of outstanding common shares was 1,422,707,786, net of treasury shares held of 1,236,482, and the number of stock options and awards was 8,519,006.

NVCC provisions require the conversion of the capital instrument into a variable number of common shares in the event that OSFI deems a bank to be non-viable or a federal or provincial government in Canada publicly announces that a bank has accepted or agreed to accept a capital injection. If a NVCC trigger event were to occur, our NVCC capital instruments, which are the preferred shares Series AZ, BB, BD, BF, BH, BI, BJ, BK, BM, BO, and subordinated debentures due on September 29, 2026, June 4, 2025, January 20, 2026, January 27, 2026, July 25, 2029 and December 23, 2029, would be converted into RBC common shares pursuant to an automatic conversion formula with a conversion price based on the greater of: (i) a contractual floor price of \$5.00, and (ii) the current market price of our common shares at the time of the trigger event (10-day weighted average). Based on a floor price of \$5.00 and including an estimate for accrued dividends and interest, these NVCC capital instruments would convert into a maximum of 3,433 million RBC common shares, in aggregate, which would represent a dilution impact of 70.69% based on the number of RBC common shares outstanding as at January 31, 2020.

Global systemically important banks (G-SIBs) 12 assessment indicators (1)

The BCBS and FSB use 12 indicators in the assessment methodology for determining the systemic importance of large global banks. As noted previously, we are designated as a G-SIB. The following table provides the 12 indicators used in the G-SIB assessment:

		As at
	October 31	
(Millions of Canadian dollars)	2019	2018
Cross-jurisdictional activity (2)		
Cross-jurisdictional claims	\$ 701,483	\$ 612,292
Cross-jurisdictional liabilities	501,986	441,686
Size (3)		
Total exposures as defined for use in the Basel III leverage ratio	1,586,125	1,467,438
Interconnectedness (4)		
Intra-financial system assets	124,110	126,112
Intra-financial system liabilities	130,236	140,979
Securities outstanding	375,392	353,591
Substitutability/financial institution infrastructure (5)		
Payment activity	45,107,658	42,917,581
Assets under custody	4,387,931	4,262,294
Underwritten transactions in debt and equity markets	293,438	245,992
Complexity (6)		
Notional amount of over-the-counter derivatives (7)	19,489,915	17,467,923
Trading and investment securities	63,309	55,855
Level 3 assets	2,568	2,549

(1) The G-SIBs indicators are prepared based on the methodology prescribed in BCBS guidelines published in July 2013 and instructions provided by BCBS in January 2020. The indicators are based on regulatory scope of consolidation, which excludes RBC Insurance[®] subsidiaries. For our 2019 standalone G-SIB disclosure, please refer to our Regulatory Disclosures at rbc.com/investorrelations/.

(2) Represents a bank's level of interaction outside its domestic jurisdiction.

(3) Represents the total on- and off- balance sheet exposures of the bank determined as per OSFI's Basel III leverage ratio rules before regulatory adjustments.

(4) Represents transactions with other financial institutions.

(5) Represents the extent to which the bank's services could be substituted by other institutions.

(6) Includes the level of complexity and volume of a bank's trading activities represented through derivatives, trading securities, investment securities and level 3 assets.

(7) On November 1, 2018, we prospectively implemented the standardized approach for measuring counterparty credit risk (SA-CCR) in accordance with the CAR guidelines in determining our derivative notional amounts.

Q4 2019 vs. Q4 2018

During 2019, notional amounts of over-the-counter derivatives increased mainly due to higher trading activity in interest rate swaps and foreign exchange contracts. Total exposures as defined for use in the Basel III leverage ratio increased due to client activity in our assets purchased under reverse repurchase agreements and securities borrowed, and volume growth in loans (net of allowance for loan losses). Other movements from the prior year primarily reflect normal changes in business activity.

Total loss absorbing capacity (TLAC)

On April 18, 2018, OSFI released its final guideline on Total Loss Absorbing Capacity (TLAC), which applies to Canadian D-SIBs as part of the Federal Government's Bail-in regime. The guideline is consistent with the TLAC standard released on November 9, 2015 by the FSB for institutions designated as G-SIBs, but tailored to the Canadian context. The TLAC requirement is intended to address the sufficiency of a systemically important bank's loss absorbing capacity in supporting its recapitalization in the event of its failure. TLAC is defined as the aggregate of Tier 1 capital, Tier 2 capital, and other TLAC instruments, which allow conversion in whole or in part into common shares under the CDIC Act and meet all of the eligibility criteria under the guideline.

TLAC requirements established two minimum standards, which are required to be met effective November 1, 2021: the riskbased TLAC ratio, which builds on the risk-based capital ratios described in the CAR guideline, and the TLAC leverage ratio, which builds on the leverage ratio described in OSFI's Leverage Requirements guideline. OSFI notified systemically important banks of the requirement to maintain a minimum TLAC ratio of 23.75%, which includes the revised DSB of 2.25%, effective April 30, 2020, and a TLAC leverage ratio of 6.75%. We began issuing bail-in eligible debt in the fourth quarter of 2018 and this has contributed to increasing our TLAC ratio. We expect our TLAC ratio to increase through normal course refinancing of maturing unsecured term debt.

Regulatory developments

Domestic stability buffer

On December 10, 2019, OSFI announced that the DSB will be increased from 2.0% to 2.25% of total RWA, effective April 30, 2020. This change arose from OSFI's semi-annual review of the DSB, based on its ongoing monitoring of federally regulated financial institutions as well as OSFI's view that key vulnerabilities to D-SIBs remain elevated. We do not anticipate any challenges in meeting this requirement by the effective date.

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Basel III reforms – operational risk

Effective November 1, 2019, institutions are required to use the current Basel III Standardized Approach (TSA) as the use of the Advanced Measurement Approach is no longer allowed and there was no impact to our capital ratios resulting from this change. Under the Basel III reforms, OSFI revised its capital requirement for operational risk applicable to deposit taking institutions and a new Standardized Approach (SA) will be required. On January 20, 2020 OSFI extended the effective implementation date to Q1 2022 from the previous effective date of Q1 2021. We are currently assessing the expected impact on adoption.

Accounting and control matters

Summary of accounting policies and estimates

Our Condensed Financial Statements are presented in compliance with International Accounting Standard (IAS) 34 Interim Financial Reporting. Our significant accounting policies are described in Note 2 of our audited 2019 Annual Consolidated Financial Statements and our Q1 2020 Condensed Financial Statements.

Changes in accounting policies and disclosures

Changes in accounting policies

During the first quarter, 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, all comparative period information prior to the current quarter is presented in accordance with our previous accounting policies, as described in our 2019 Annual Report. As a result of the adoption of IFRS 16, we recognized right-of-use assets, lease liabilities and an adjustment to opening retained earnings as at November 1, 2019. Refer to Note 2 of our Condensed Financial Statements for details of these changes.

During the first quarter, we early adopted amendments to IFRS 9 *Financial Instruments*, IAS 39 *Financial Instruments: Recognition and Measurement* and IFRS 7 *Financial Instruments: Disclosures (Amendments)*. Refer to Note 2 of our Condensed Financial Statements for details of these changes.

Future changes in accounting policies and disclosures

Future changes in accounting policies and disclosures that are not yet effective for us are described in Note 2 of our audited 2019 Annual Consolidated Financial Statements.

Controls and procedures

Disclosure controls and procedures

As of January 31, 2020, management evaluated, under the supervision of and with the participation of the President and Chief Executive Officer and the Chief Financial Officer, the effectiveness of our disclosure controls and procedures as defined under rules adopted by the U.S. SEC. Based on that evaluation, the President and Chief Executive Officer and the Chief Financial Officer concluded that our disclosure controls and procedures were effective as of January 31, 2020.

Internal control over financial reporting

No changes were made in our internal control over financial reporting during the quarter ended January 31, 2020 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Related party transactions

In the ordinary course of business, we provide normal banking services and operational services, and enter into other transactions with associated and other related corporations, including our joint venture entities, on terms similar to those offered to non-related parties. We grant loans to directors, officers and other employees at rates normally accorded to preferred clients. In addition, we offer deferred share and other plans to non-employee directors, executives and certain other key employees. For further information, refer to Notes 12 and 27 of our audited 2019 Annual Consolidated Financial Statements.

EDTF recommendations index

We aim to present transparent, high-quality risk disclosures by providing disclosures in our 2019 Annual Report, Q1 2020 Report to Shareholders (RTS), Supplementary Financial Information package (SFI), and Pillar 3 Report, in accordance with recommendations from the Financial Stability Board's (FSB) Enhanced Disclosure Task Force (EDTF). Information within the SFI and Pillar 3 Report is not and should not be considered incorporated by reference into our Q1 2020 Report to Shareholders.

The following index summarizes our disclosure by EDTF recommendation:

			Loco	ition of disclosu	re
Type of Pick	Recommendation	Disclosure	RTS	Annual Report page	SFI
Type of Risk	Recommendation	-	page	Report page	page
General	2	Table of contents for EDTF risk disclosure Define risk terminology and measures	43	110 49-54, 213-214	1 -
General	3	Top and emerging risks		47-48	_
	4	New regulatory ratios	37-38	90-94	-
Risk governance,	5	Risk management organization		49-54	_
risk management	6	Risk culture		50-54	_
and business	7	Risk in the context of our business activities		97	-
model	8	Stress testing		51-52, 66	-
	9	Minimum Basel III capital ratios and Domestic systemically important bank surcharge	38	90-94	-
	10	Composition of capital and reconciliation of the accounting balance sheet to the regulatory balance sheet		_	20-23
Capital adequacy	11	Flow statement of the movements in regulatory capital		-	24
and risk-weighted	12	Capital strategic planning		90-94	-
assets (RWA)	13	RWA by business segments		-	25
	14	Analysis of capital requirement, and related measurement model information		55-58	*
	15	RWA credit risk and related risk measurements		-	*
	16	Movement of risk-weighted assets by risk type		-	25
	17	Basel back-testing		51, 55	37
Liquidity	18	Quantitative and qualitative analysis of our liquidity reserve	30-31	72-74, 78-79	-
	19	Encumbered and unencumbered assets by balance sheet category, and contractual obligations for rating downgrades	32, 34	74, 77	-
Funding	20	Maturity analysis of consolidated total assets, liabilities and off-balance sheet commitments analyzed by remaining contractual maturity at the balance sheet date	36-37	79-80	-
	21	Sources of funding and funding strategy	32-33	74-76	_
	22	Relationship between the market risk measures for trading and non-trading portfolios and the balance sheet	29-30	70-71	-
Market risk	23	Decomposition of market risk factors	26-28	66-69	_
MarketHisk	24	Market risk validation and back-testing		66	_
	25	Primary risk management techniques beyond reported risk measures and parameters		66-69	-
	26	Bank's credit risk profile	19-25	54-65, 156-163	26-37,*
		Quantitative summary of aggregate credit risk exposures that reconciles to the balance sheet	59-62	104-109	*
	27	Policies for identifying impaired loans		56-58, 99-100, 129-132	-
Credit risk	28	Reconciliation of the opening and closing balances of impaired loans and impairment allowances during the year		_	28, 33
	29	Quantification of gross notional exposure for OTC		59	39
	30	derivatives or exchange-traded derivatives Credit risk mitigation, including collateral held for all sources of credit risk		57-58	36
Other	31 32	Other risk types Publicly known risk events		82-89 85-86,	-
				201-202	

* These disclosure requirements are satisfied or partially satisfied by disclosures provided in our Pillar 3 Report for the quarter ended January 31, 2020 and for the year ended October 31, 2019.

Interim Condensed Consolidated Financial Statements (unaudited)

Interim Condensed Consolidated Balance Sheets (unaudited)

	_	As		
(Millions of Canadian dollars)		January 31 2020	00	2019 2019
Assets				
Cash and due from banks	\$	34,120	\$ 2	26,310
Interest-bearing deposits with banks		31,331	3	38,345
Securities				
Trading		145,015		46,534
Investment, net of applicable allowance (Note 4)	-	121,652 266,667		02,470 49,004
Assets purchased under reverse repurchase agreements and securities borrowed		324,187		06,961
		52 1,107	5.	,0,,,01
Loans (Note 5) Retail		430,841	4	26,086
Wholesale		202,238		95,870
Allowance for loan losses (Note 5)		633,079 (3,139)		21,956 (3,100)
	_	629,940		18,856
Segregated fund net assets		1,788		1,663
Other	-	1,700		1,005
Customers' liability under acceptances		18,801		18,062
Derivatives		93,982	1(01,560
Premises and equipment Goodwill		8,257 11,288		3,191
Other intangibles		4,641		4,674
Other assets		51,302	2	49,073
		188,271	18	87,796
Total assets	\$ 1	,476,304	\$ 1,42	28,935
Liabilities and equity				
Deposits (Note 6) Personal	Ś	302,002	\$ 29	94,732
Business and government	Ş	569,236		55,482
Bank		31,046		25,791
		902,284	88	86,005
Segregated fund net liabilities		1,788		1,663
Other		,		,
Acceptances		18,844		18,091
Obligations related to securities sold short		35,624		35,069
Obligations related to assets sold under repurchase agreements and securities loaned Derivatives		254,391 94,611	22	26,586 98,543
Insurance claims and policy benefit liabilities		12,259		11,401
Other liabilities		63,173		58,137
		478,902	44	47,827
Subordinated debentures (Note 8)		9,269		9,815
Total liabilities	1	1,392,243	1,34	45,310
Equity attributable to shareholders				
Preferred shares (Note 8)		5,699		5,707
Common shares (Note 8) Retained earnings		17,505 56,279		17,587 55,981
Other components of equity		4,472	-	4,248
		83,955	8	83,523
Non-controlling interests		106		102
Total equity Total liabilities and equity	ć 1	84,061		83,625
The accompanying notes are an integral part of these Interim Condensed Consolidated Einancial Statements	ې ا د	,476,304	Ş 1,4₂	28,935

The accompanying notes are an integral part of these Interim Condensed Consolidated Financial Statements.

	For the three	months ended
	January 31	January 3
Millions of Canadian dollars, except per share amounts)	2020	201
nterest and dividend income (Note 3)		
Loans	\$ 6,358	\$ 6,16
Securities	1,742	1,69
Assets purchased under reverse repurchase agreements and securities borrowed Deposits and other	2,009 129	2,14 14
	10,238	10,14
nterest expense (Note 3) Deposits and other	2 0 2 0	2.26
Other liabilities	3,020 1,914	3,26 1,94
Subordinated debentures	83	9
	5,017	5,30
let interest income	5,221	4,84
lon-interest income		
Insurance premiums, investment and fee income	1,994	1,57
Trading revenue	458	39
Investment management and custodial fees Mutual fund revenue	1,535 946	1,45 87
Securities brokerage commissions	318	34
Service charges	488	46
Underwriting and other advisory fees	627	34
Foreign exchange revenue, other than trading	253	24
Card service revenue	287	28
Credit fees	360	31
Net gains on investment securities	11	4
Share of profit in joint ventures and associates Other	22 316	1
	7,615	6,74
Total revenue	12,836	11,58
	12,050	11,50
Provision for credit losses (Notes 4 and 5)	419	51
nsurance policyholder benefits, claims and acquisition expense	1,614	1,22
lon-interest expense		
Human resources (Note 7)	4,060	3,64
Equipment	462	43
Occupancy	397	39
Communications Professional fees	250 284	24 30
Amortization of other intangibles	303	29
Other	622	60
	6,378	5,91
ncome before income taxes		
ncome taxes	4,425 916	3,93 76
Net income	\$ 3,509	\$ 3,17
	ş 3,309	/ ٦,١/
Net income attributable to:	¢ 2 E04	\$ 2.17
Shareholders Non-controlling interests	\$ 3,504 5	\$ 3,17
אטורינטוונוטווווא ווונכורסנס		
	\$ 3,509	\$ 3,17
Basic earnings per share (in dollars) (Note 9)	\$ 2.41	\$ 2.1
Diluted earnings per share (in dollars) (Note 9)	2.40	2.1

The accompanying notes are an integral part of these Interim Condensed Consolidated Financial Statements.

Interim Condensed Consolidated Statements of Income (unaudited)

Interim Condensed Consolidated Statements of Comprehensive Income (unaudited)

	For the three r	nonths ended
	January 31 2020	January 31 2019
(Millions of Canadian dollars)		
Net income	\$ 3,509	\$ 3,172
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 fair value through other comprehensive income	183	(1)
Provision for credit losses recognized in income	(1)	(1)
Reclassification of net losses (gains) on debt securities and loans at fair value through other comprehensive		
income to income	(9)	(29)
	173	(31)
Foreign currency translation adjustments		
Unrealized foreign currency translation gains (losses)	411	35
Net foreign currency translation gains (losses) from hedging activities	(178)	(66)
Reclassification of losses (gains) on foreign currency translation to income	-	2
Reclassification of losses (gains) on net investment hedging activities to income	-	2
	233	(27)
Net change in cash flow hedges		
Net gains (losses) on derivatives designated as cash flow hedges	(174)	(316)
Reclassification of losses (gains) on derivatives designated as cash flow hedges to income	(8)	(74)
	(182)	(390)
Items that will not be reclassified subsequently to income:		
Remeasurements of employee benefit plans (Note 7)	(469)	(394)
Net fair value change due to credit risk on financial liabilities designated as fair value through profit or loss	(109)	163
Net gains (losses) on equity securities designated at fair value through other comprehensive income	1	7
	(577)	(224)
Total other comprehensive income (loss), net of taxes	(353)	(672)
Total comprehensive income (loss)	\$ 3,156	\$ 2,500
Total comprehensive income attributable to:		
Shareholders	\$ 3,151	\$ 2,497
Non-controlling interests	5	3
	\$ 3,156	\$ 2,500

The income tax effect on the Interim Condensed Consolidated Statements of Comprehensive Income is shown in the table below.

	For the	three n	nonths ended
(Millions of Canadian dollars)	Janua 20	гу 31 020	January 31 2019
Income taxes on other comprehensive income			
Net unrealized gains (losses) on debt securities and loans at fair value through other comprehensive income	\$	55	\$ (4)
Provision for credit losses recognized in income		-	_
Reclassification of net losses (gains) on debt securities and loans at fair value through other comprehensive			
income to income		(3)	(17)
Unrealized foreign currency translation gains (losses)		_	1
Net foreign currency translation gains (losses) from hedging activities		(62)	(24)
Reclassification of losses (gains) on net investment hedging activities to income		-	1
Net gains (losses) on derivatives designated as cash flow hedges		(63)	(113)
Reclassification of losses (gains) on derivatives designated as cash flow hedges to income		(3)	(27)
Remeasurements of employee benefit plans	((167)	(125)
Net fair value change due to credit risk on financial liabilities designated as fair value through profit or loss		(39)	59
Net gains (losses) on equity securities designated at fair value through other comprehensive income		(2)	(1)
Total income tax expenses (recoveries)	\$ (:	284)	\$ (250)

The accompanying notes are an integral part of these Interim Condensed Consolidated Financial Statements.

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							I of the till company characterized and a 1 2 1, 2020					
						0	ther compor	Other components of equity	y			
(Millions of Canadian dollars)	Preferred shares	Common shares	Treasury T ommon shares - s shares preferred o	Treasury shares – common	Retained earnings	FVOCI Foreign securities currency and loans translation	Foreign currency translation	Cash flow cc hedges	Total other components of equity	Equity attributable to shareholders	/ Non-controlling	Total equity
Balance at beginning of period Transition adjustment (Note 2)	\$ 5,706	\$ 17,645 -	\$ - 1	\$ (58) \$ -	\$ 55,981 (107)	\$ 33	\$ 4,221 _	- \$ (9) \$	4,248 -	\$ 83,523 (107)	\$ \$ 102 7) -	\$ 83,625 (107)
Adjusted balance at beginning of period	\$ 5,706	\$ 17,645	\$ 1 \$	\$ (58) \$	\$ 55,874	\$ 33	\$ 4,221	\$ (9) \$	4,248	\$ 83,416	5 \$ 102	\$ 83,518
Changes in equity												
Issues of share capital	I	18	I	I	I	I	I	I	I	18	1	18
Common shares purchased for cancellation	Ι	(86)	I	I	(641)	Ι	Ι	Ι	I	(727)	- (1	(727)
Redemption of preferred shares	(8)	I	I	I	I	I	I	Ι	I	(8)	-	(8)
Sales of treasury shares	1	I	33	1,566	I	I	I	I	I	1,599	-	1,599
Purchases of treasury shares	I	I	(33)	(1,580)	I	I	I	I	I	(1,613)	-	(1, 613)
Share-based compensation awards	I	I	1	I	2	I	I	I	I	2	1	5
Dividends on common shares	I	I	I	I	(1,496)	I	I	I	I	(1,496)	- (1	(1, 496)
Dividends on preferred shares and other	I	I	I	I	(65)	I	I	I	I	(65)	(1) (1)	(99)
Other	I	I	I	I	(322)	I	I	I	I	(322)	-	(322)
Net income	I	I	I	I	3,504	I	I	I	I	3,504	1.5	3,509
Total other comprehensive income (loss),												
net of taxes	I	I	I	I	(577)	173	233	(182)	224	(353)	- (2	(353)
Balance at end of period	\$ 5,698	\$ 17,577	\$ 1 \$	\$ (72) \$	\$ 56,279	\$ 206	\$ 4,454	\$ (188) \$	4,472	\$ 83,955	5 \$ 106	\$ 84,061
					For	the three mo	onths ended	For the three months ended January 31, 2019	19			
						0	ther compor	Other components of equity				
			Treasury	Treasury	1	FVOCI	Foreign		Total other	Eauitv	1	
(Millions of Canadian dollars)	Preferred shares	Common shares	eferred	shares – common	Retained earnings	securities and loans	currency translation	Cash flow co hedges	components of equity	attributable to shareholders	o Non-controlling s interests	Total equity
Balance at beginning of period (Note 2)	\$ 6,306	\$ 17,635	\$3\$	\$ (18) \$	\$ 51,018	\$ (12)	\$ 4,147	\$ 688 \$	4,823	\$ 79,767	7 \$ 94	\$ 79,861
Changes in equity												
Issues of share capital	350	11	I	I	I.	I	I	I	I	361	1	361
Common shares purchased for cancellation	I	(45)	I	I	(303)	I	I	I	I	(348)		(348)
Redemption of preferred shares	(250)	I	I	I	I	I	I	I	I	(250)	- (0	(250)
Sales of treasury shares	I	I	82	1,529	I	I	Ι	I	I	1,611	-	1,611
Purchases of treasury shares	I	I	(85)	(1,547)	Ι	Ι	Ι	I	I	(1,632)		(1,632)
Share-based compensation awards	I	I	Ι	I	2	I	Ι	I	I	2	-	2
Dividends on common shares	I	I	I	I	(1,407)	I	I	I	I	(1,407)	- (2	(1,407)
Dividends on preferred shares and other	I	Ι	I	I	(74)	I	I	I	I	(74)	- (t	(74)
Other	I	I	I	I	2	I	I	I	I	2	-	2
Net income	I	I	I	I	3,170	I	I	I	I	3,170) 2	3,172
Total other comprehensive income (loss),												
net of taxes	1	1	I	I	(774)	(31)	(28)	(390)	(449)	(6/3)	2)	(9/7)
Balance at end of period	\$ 6,406	\$ 17,601	\$ - \$	\$ (36) \$	52,184	\$ (43)	\$ 4,119	\$ 298 \$	4,374	\$ 80,529) \$ 97	\$ 80,626

 Balance at end of period
 \$ 6,406
 \$ 17,601
 \$ - \$

 The accompanying notes are an integral part of these Interim Condensed Consolidated Financial Statements.

Interim Condensed Consolidated Statements of Cash Flows (unaudited)

	For the three	months ended
(Millions of Canadian dollars)	January 31 2020	January 31 2019
Cash flows from operating activities		
Net income	\$ 3,509	\$ 3,172
Adjustments for non-cash items and others		
Provision for credit losses	419	514
Depreciation	333	150
Deferred income taxes Amortization and impairment of other intangibles	14 311	(171) 293
Net changes in investments in joint ventures and associates	(22)	(15)
Losses (Gains) on investment securities	(12)	(49)
Losses (Gains) on disposition of businesses	` 8 [′]	
Adjustments for net changes in operating assets and liabilities		
Insurance claims and policy benefit liabilities	858	512
Net change in accrued interest receivable and payable	(98)	122
Current income taxes Derivative assets	(255) 7,578	(159) 9,223
Derivative liabilities	(3,932)	(8,472)
Trading securities	1,504	(9,915)
Loans, net of securitizations	(11,635)	(13,151)
Assets purchased under reverse repurchase agreements and securities borrowed	(17,226)	(3,058)
Obligations related to assets sold under repurchase agreements and securities loaned	27,805	17,715
Obligations related to securities sold short	555	995
Deposits, net of securitizations	17,236	15,482
Brokers and dealers receivable and payable Other	(644) (6,362)	(478) (1,483)
	. ,	
Net cash from (used in) operating activities	19,944	11,227
Cash flows from investing activities Change in interest-bearing deposits with banks	7,016	(2,182)
Proceeds from sales and maturities of investment securities	16,804	18,304
Purchases of investment securities	(35,200)	(20,668)
Net acquisitions of premises and equipment and other intangibles	(745)	(561)
Net cash from (used in) investing activities	(12,125)	(5,107)
Cash flows from financing activities		
Issuance of subordinated debentures	1,500	-
Repayment of subordinated debentures	(2,000)	-
Issue of common shares, net of issuance costs	16	(248)
Common shares purchased for cancellation Issue of preferred shares, net of issuance costs	(727)	(348) 350
Redemption of preferred shares	(8)	(250)
Sales of treasury shares	1,599	1,611
Purchases of treasury shares	(1,613)	(1,632)
Dividends paid	(1,567)	(1,483)
Dividends/distributions paid to non-controlling interests	(1)	-
Change in short-term borrowings of subsidiaries	2,779	4,860
Repayment of lease liabilities	(141)	
Net cash from (used in) financing activities	(163)	3,117
Effect of exchange rate changes on cash and due from banks	154	587
Net change in cash and due from banks Cash and due from banks at beginning of period (1)	7,810 26,310	9,824 30,209
Cash and due from banks at end of period (1)	\$ 34,120	\$ 40,033
Cash flows from operating activities include:		
Amount of interest paid (1)	\$ 4,757	\$ 4,748
Amount of interest received	9,751	9,660
Amount of dividends received Amount of income taxes paid	658 875	493 791
	0/3	/91

(1) We are required to maintain balances with central banks and other regulatory authorities. The total balances were \$2.5 billion as at January 31, 2020 (October 31, 2019 – \$2.6 billion; January 31, 2019 – \$2.3 billion; October 31, 2018 – \$2.4 billion).

The accompanying notes are an integral part of these Interim Condensed Consolidated Financial Statements.

Note 1 General information

Our unaudited Interim Condensed Consolidated Financial Statements (Condensed Financial Statements) are presented in compliance with International Accounting Standard (IAS) 34 *Interim Financial Reporting*. The Condensed Financial Statements do not include all the information and disclosures required in the annual financial statements and should be read in conjunction with our audited 2019 Annual Consolidated Financial Statements and the accompanying notes included on pages 111 to 211 in our 2019 Annual Report. Tabular information is stated in millions of Canadian dollars, except per share amounts and percentages. On February 20, 2020, the Board of Directors authorized the Condensed Financial Statements for issue.

Note 2 Summary of significant accounting policies, estimates and judgments

Except as indicated below, the Condensed Financial Statements have been prepared using the same accounting policies and methods used in preparation of our audited 2019 Annual Consolidated Financial Statements. Our significant accounting policies and future changes in accounting policies and disclosures that are not yet effective for us are described in Note 2 of our audited 2019 Annual Consolidated Financial Statements.

Changes in accounting policies

Leases

During the first quarter, we adopted IFRS 16 *Leases* (IFRS 16), which sets out principles for the recognition, measurement, presentation and disclosure of leases, replacing the previous accounting standard for leases, IAS 17 *Leases* (IAS 17). As a result of the application of IFRS 16, we changed our accounting policy for leasing as outlined below, applicable from November 1, 2019. As permitted by the transition provisions of IFRS 16, we elected not to restate comparative period results; accordingly, all comparative information is presented in accordance with our previous accounting policies, as described in our 2019 Annual Report.

As a result of the adoption of IFRS 16, we increased total assets by \$5,084 million and total liabilities by \$5,191 million, primarily representing leases of premises and equipment previously classified as operating leases, and reduced retained earnings by \$107 million, net of taxes. The adoption of IFRS 16 reduced our CET1 capital ratio by 14 bps.

Leasing

At inception of a contract, we assess whether a contract is or contains a lease. A contract is, or contains, a lease if the contract conveys the right to obtain substantially all of the economic benefits from, and direct the use of, an identified asset for a period of time in return for consideration.

When we are the lessee in a lease arrangement, we initially record a right-of-use asset and corresponding lease liability, except for short-term leases and leases of low-value assets. Short-term leases are leases with a lease term of 12 months or less. Low-value assets are unspecialized, common, technologically unsophisticated, widely available, and widely used non-infrastructure assets. For short-term leases and leases of low-value assets of low-value assets, we record the lease payments as an operating expense on a straight-line basis over the lease term.

Where we are reasonably certain to exercise extension and termination options, they are included in the lease term.

The lease liability is initially measured at the present value of the lease payments that are not paid at the commencement date, discounted at our incremental borrowing rate. The lease liability is subsequently measured at amortized cost using the effective interest method, recorded in Interest expense.

The right-of-use asset is initially measured based on the initial amount of the lease liability, adjusted for lease payments made on or before the commencement date, initial direct costs incurred, and an estimate of costs to dismantle, remove, or restore the asset, less any lease incentives received.

The right-of-use asset is depreciated to the earlier of the lease term and the useful life, unless ownership will transfer to RBC or we are reasonably certain to exercise a purchase option, in which case the useful life of the right-of-use asset is used. We apply IAS 36 *Impairment of assets* to determine whether a right-of-use asset is impaired and account for any identified impairment loss as described in the premises and equipment accounting policies in our 2019 Annual Report.

Impact of adoption of IFRS 16 - Leases previously classified as operating leases

At transition, lease liabilities were measured at the present value of the remaining lease payments, discounted at our incremental borrowing rate as at November 1, 2019. We applied a weighted-average incremental borrowing rate of 2.3%. Right-of-use assets are generally measured at an amount equal to the lease liability, adjusted by any prepaid or accrued lease payments. For a select number of properties, the right-of-use assets were measured as if IFRS 16 had been applied since the commencement date of the lease, discounted using our incremental borrowing rate as at November 1, 2019. The following practical expedients were adopted when applying IFRS 16 to leases previously classified as operating leases under IAS 17:

- Election to not separate lease and non-lease components, applied to our real estate leases; and
- Exemption from recognition for short-term and low value leases.

Note 2 Summary of significant accounting policies, estimates and judgments (continued)

The following table reconciles our operating lease commitments at October 31, 2019, as previously disclosed in our 2019 Annual Consolidated Financial Statements, to the lease obligations recognized on initial application of IFRS 16 at November 1, 2019.

(Millions of Canadian dollars)	
Lease commitments disclosed as at October 31, 2019	\$ 6,175
Less: commitments related to non-recoverable tax	(360)
Less: commitments for contracts not yet commenced	(240)
Less: recognition exemption adopted for short-term and low-value leases	(83)
Plus: commitments for renewal options reasonably certain to be exercised	977
Other	(26)
Adjusted operating lease commitments as at October 31, 2019	6,443
Discounted as at November 1, 2019	5,557
Finance lease liabilities recognized as at October 31, 2019	49
Lease liability recognized as at November 1, 2019	\$5,606

Impact of adoption of IFRS 16 – Leases previously classified as finance leases

The carrying amount of the right-of-use asset and lease liability at November 1, 2019 for leases previously classified as finance leases under IAS 17 *Leases* was determined to be equal to the carrying amount of the lease asset and liability under IAS 17 immediately before the transition date.

Interest Rate Benchmark Reform

During the first quarter, we early adopted amendments to IFRS 9 *Financial Instruments*, IAS 39 *Financial Instruments*: *Recognition and Measurement* and IFRS 7 *Financial Instruments*: *Disclosures* (Amendments), applicable from November 1, 2019. These amendments modify certain hedge accounting requirements to provide relief from the effect of uncertainty caused by interest rate benchmark reform (the Reform) prior to the transition to alternative interest rates. The adoption of the Amendments had no impact to our consolidated financial statements.

We will cease to apply these Amendments as interbank offered rate (IBOR) based cash flows transition to new risk free rates or when the hedging relationships to which the relief is applied are discontinued.

Hedge Accounting

Our accounting policies relating to hedge accounting are described in Note 2 and Note 8 of our 2019 Annual Report. We apply hedge accounting when designated hedging instruments are 'highly effective' in offsetting changes in the fair value or cash flows of the hedged items at inception and on an ongoing basis. We perform retrospective assessments to demonstrate that the relationship has been effective since designation of the hedge and prospective assessments to evaluate whether the hedge is expected to be effective over the remaining term of the hedge. While uncertainty due to IBOR reform exists, our prospective effectiveness testing is based on existing hedged cash flows or hedged risks. Any ineffectiveness arising from retrospective testing is recognized in net income.

In addition to potential sources of ineffectiveness outlined in Note 8 of our 2019 Annual Report, the Reform may result in ineffectiveness as the transition of hedged items and related hedging instruments from IBORs to new risk free rates may occur at different times. This may result in different impacts on the valuation or cash flow variability of hedged items and related hedging instruments.

Cash flow hedges

We apply hedge accounting for cash flow hedges when the cash flows giving rise to the risk being hedged have a high probability of occurring. While uncertainty due to IBOR reform exists, we apply the relief provided by the Amendments that the IBOR benchmarks, on which the highly probable hedged cash flows are based, are not altered as a result of the Reform. In addition, associated cash flow hedge reserves are not recycled into net income solely due to changes related to the transition from IBOR to new risk free rates.

Fair value hedges

We apply hedge accounting to IBOR rates which may not be contractually specified when that rate is separately identifiable and reliably measurable at inception of the hedge relationship.

Hedging relationships impacted by interest rate benchmark reform

The following table presents the notional amount of our hedging instruments which reference IBOR that will expire after 2021 and will be affected by the Reform. The notional amounts of our hedging instruments also approximates the extent of the risk exposure we manage through hedging relationships:

	As at N	lovember 1, 2019
(Millions of Canadian dollars)	Notional/P	rincipal amounts (1)
Interest rate contracts		
USD LIBOR	\$	26,709
EURO Interbank Offered Rate		5,589
GBP LIBOR		618
Non-derivative instruments		
USD LIBOR		888
GBP LIBOR		682
	\$	34,486

(1) Excludes interest rate contracts and non-derivative instruments which reference rates in multi-rate jurisdictions, including the Canadian Dollar Offered Rate (CDOR) and Australian Bank Bill Swap Rate (BBSW).

IFRS Interpretations Committee Interpretation 23 Uncertainty over income tax treatments (IFRIC 23)

During the first quarter, we adopted IFRIC 23 which provides guidance on the recognition and measurement of tax assets and liabilities under IAS 12 *Income taxes* when there is uncertainty over income tax treatments, replacing our application of IAS 37 *Provisions, contingent liabilities and contingent assets* for uncertain tax positions. We are subject to income tax laws in various jurisdictions where we operate, and the complex tax laws are potentially subject to different interpretations by us and the relevant taxation authorities. Significant judgment is required in the interpretation of the relevant tax laws, and in assessing the probability of acceptance of our tax positions, which includes our best estimate of tax positions that are under audit or appeal by relevant taxation authorities. We perform a review on a quarterly basis to incorporate our best assessment based on information available, but additional liability and income tax expense could result based on the acceptance of our positions of IFRIC 23 had no impact to our consolidated financial statements.

IFRS 15 Revenue from Contracts with Customers (IFRS 15)

On November 1, 2018, we adopted IFRS 15 and reduced our opening retained earnings. In the fourth quarter of 2019, we amended our opening reduction to retained earnings to \$94 million on an after-tax basis. Comparative amounts have been revised from those previously presented.

Note 3 Fair value of financial instruments

Carrying value and fair value of financial instruments

The following tables provide a comparison of the carrying and fair values for each classification of financial instruments. Embedded derivatives are presented on a combined basis with the host contracts. Refer to Note 2 and Note 3 of our audited 2019 Annual Consolidated Financial Statements for a description of the valuation techniques and inputs used in the fair value measurement of our financial instruments. There have been no significant changes to our determination of fair value during the quarter.

				As at J	anuary 31, 2020			
		Carrying value	and fair value		Carrying value	Fair value		
(Millions of Canadian dollars)	Financial instruments classified as FVTPL	Financial instruments designated as FVTPL	Financial instruments classified as FVOCI	Financial instruments designated as FVOCI	Financial instruments measured at amortized cost	Financial instruments measured at amortized cost	Total carrying amount	Total fair value
Financial assets								
Interest-bearing deposits with banks	\$ -	\$ 19,151	\$ -	\$ –	\$ 12,180	\$ 12,180	\$ 31,331	\$ 31,331
Securities Trading	135,110	0.005					145,015	145 015
Investment, net of	135,110	9,905	-	-	-	-	145,015	145,015
applicable allowance	_	-	76,942	522	44,188	44,623	121,652	122,087
	135,110	9,905	76,942	522	44,188	44,623	266,667	267,102
Assets purchased under reverse repurchase agreements and securities borrowed	261,216	-	_	_	62,971	62,972	324,187	324,188
Loans, net of applicable allowance							· · · · ·	
Retail Wholesale	282 8,776	252 1,973	95 449	-	428,194 189,919	429,591 189,599	428,823 201,117	430,220 200,797
	9,058	2,225	544	-	618,113	619,190	629,940	631,017
Other								
Derivatives Other assets (1)	93,982 3,053	-			- 51,146	- 51,145	93,982 54,199	93,982 54,198
Financial liabilities Deposits								
Personal	\$ 125	\$ 17,109			\$ 284,768	\$ 284,896	\$ 302,002	\$ 302,130
Business and government (2) Bank (3)	260	117,572 3,450			451,404 27,596	452,781 27,614	569,236 31,046	570,613 31,064
	385	138,131			763,768	765,291	902,284	903,807
Other Obligations related to securities								
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and	35,624	-			-	-	35,624	35,624
securities loaned	_	247,170			7,221	7,221	254,391	254,391
Derivatives Other liabilities (4) Subordinated debentures	94,611 (1,484)	71			61,838 9,269	- 61,826 9,401	94,611 60,425 9,269	94,611 60,413 9,401

				As at C	October 31, 2019			
		Carrying value	e and fair value		Carrying value	Fair value		
(Millions of Canadian dollars)	Financial instruments classified as FVTPL	Financial instruments designated as FVTPL	Financial instruments classified as FVOCI	Financial instruments designated as FVOCI	Financial instruments measured at amortized cost	Financial instruments measured at amortized cost	Total carrying amount	Total fair value
Financial assets								
Interest-bearing deposits with banks	\$ –	\$ 22,283	\$ –	\$ –	\$ 16,062	\$ 16,062	\$ 38,345	\$ 38,345
Securities Trading Investment, net of	137,600	8,934	_	-	_	-	146,534	146,534
applicable allowance	-	-	57,223	463	44,784	45,104	102,470	102,790
	137,600	8,934	57,223	463	44,784	45,104	249,004	249,324
Assets purchased under reverse repurchase agreements and securities borrowed	246,068	_	_	_	60,893	60,894	306,961	306,962
Loans, net of applicable allowanc	,				,	,		,
Retail Wholesale	275 7,055	242 1,856	95 451	-	423,469 185,413	424,416 184,645	424,081 194,775	425,028 194,007
	7,330	2,098	546	-	608,882	609,061	618,856	619,035
Other Derivatives	101,560	_				_	101,560	101,560
Other assets (1)	3,156	_	_	-	50,375	50,375	53,531	53,531
Financial liabilities								
Deposits Personal Business and government (2) Bank (3)	\$ 140 151 -	\$ 17,394 111,389 3,032			\$ 277,198 453,942 22,759	\$ 277,353 452,536 22,773	\$ 294,732 565,482 25,791	\$ 294,887 564,076 25,805
	291	131,815			753,899	752,662	886,005	884,768
Other Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and	5 35,069	_			-	_	35,069	35,069
securities loaned Derivatives Other liabilities (4)	_ 98,543 (1,209)	218,612 - 91			7,974 - 61,039	7,974 - 61,024	226,586 98,543 59,921	226,586 98,543 59,906
Subordinated debentures	(1,20)	-			9,815	9,930	9,815	9,930

Includes Customers' liability under acceptances and financial instruments recognized in Other assets. Business and government deposits include deposits from regulated deposit-taking institutions other than banks. Bank deposits refer to deposits from regulated banks and central banks. Includes Acceptances and financial instruments recognized in Other liabilities.

(1) (2) (3) (4)

Note 3 Fair value of financial instruments (continued)

Fair value of assets and liabilities measured at fair value on a recurring basis and classified using the fair value hierarchy

Financial assets Trading Debt sued or guaranteed by: Creating Powincial and agencies (1) Trading Debt sued or guaranteed by: Creating New Coord and municipal New Coord and municipal New Coord agencies (1) The Coord and municipal New Coord agencies (1) The Coord agencore (1) The Coord agencies (1) The Coord agencies (1)						A	s at				
Internet description Level 1 Level 2 Level 3 adjustments Fair value Interst-bearing deposits with banks \$ - \$				· ·						2019	
Financial lesses s - S 19,151 S - S 22,283 S 2,223 S 2,223 S 2,223 S 2,223 S 2,223 S 2,223 S S S 1,345 S S 3,345 S					Netting						
Interest-bearing deposits with banks 5 - 5 5 19,151 5 - 5 22,283 7 6 5 22,2 Behl issued or gurannized by: Central minimult 10 Provincial and municipal Nome COD Synchronian (1) Provincial and municipal Concorrise (1) 13,023 6,361 - 20,284 14,655 5,474 - 20,1 11,282 - 11,445 - 11,282 - 11,2 11,283 - 11,2 12,334 - 11,2 13,237 2 1,3023 0,304 5 - 6,363 - 1,303 2 1,303 2 1,303 2 1,303 2 1,303 2 1,303 2 1,303 1,300 1,46,55 5,801 8,7,43 1,300 1,46,55 5,801 8,7,43 1,300 1,46,55 5,801 8,7,43 1,300 1,46,55 5,801 8,7,43 1,300 1,46,55 5,801 8,7,43 1,300 1,46,55 5,801 8,7,43 1,300 1,46,55 5,801 8,7,433 1,300 1,46,50<		Level 1	Level 2	Level 3	adjustments	Fair value	Level 1	Level 2	Level 3	adjustments	Fair value
Troding Debit issued or guarantied by: Conciding poverminent (1) 13,923 6,361 - 20,284 14655 5,574 - 20,11 U.S. state, municipal and agencies (1) 774 31,557 55 32,386 2,050 39,584 58 41,6 Other GEC government (2) - 439 - 438 - 13,823 2,153 33,100 - 464 More Coord contribes (1) - 1,397 2 1,399 - 1,338 2,013 1,320 - 44,648 More Coord contribes (1) - 1,397 2 1,399 - 1,338 1,312 145,015 57,801 87,433 1,300 144,55 Investment - 3,514 - 3,514 - 2,572 - 2,00 - 2,00 - 2,00 - 2,00 - 2,00 - 2,00 - 2,00 - 2,00 - 2,00 - 2,00 - 2,00 -		\$ -	\$ 19,151	\$ -	\$ 5	\$ 19,151	\$ - \$	22,283	\$	\$	\$ 22,283
Debt issued or guarantized by: Cancian coverament (1) Protect Work (1) 13,923 6,61 - 20,244 14,655 5,474 - 12,03 US: 3dde, municipal of conjects (1) Other OCD government (2) Morages bock descrutiles (1) - 49,89 - 43,23 - 41,655 5,474 - 6,754 2,286 3,110 - 6,46 Morages bock descrutiles (1) - 49,89 - 482 - 43,99 - 1,333 2 1,33 2 1,33 2 1,33 2 1,33 2 1,342 1,23 2,361 1,23,93 1,320 1,46,55 5,73,40 7,433 1,300 1,46,55 5,73,40 7,333 1,300 1,46,55 Equities 41,875 2,076 1,226 44,888 83,300 1,925 1,219 41,46,55 - 2,866 - 2,866 - 2,866 - 2,866 - 2,866 - 2,866 - 2,866 - 2,866 - 2,866											
Concilin government (1) Federal 13,92 6,361 - 20,284 14,655 5,474 - 21,11 U.S. stame immeripation and spencies (1) 774 31,357 55 31,336 2,060 39,34 58 - 14,655 54,747 - 14,157 55 31,336 2,060 39,34 58 - 14,65 54,747 - 14,357 55 31,336 2,060 39,343 53 13,32 2 13,33 2 13,33 2 13,337 55 13,336 1,312,37 2 13,337 55 13,338 1,312,12 14,516 5,718,01 87,433 1,3100 145,55 57,801 87,433 1,3100 145,55 57,801 87,433 1,3100 146,55 2,718 3,310 145,55 57,801 87,433 1,300 146,55 2,718 2,727 2,72 2,72 2,72 2,72 2,72 2,72 2,72 2,72 2,72 2,72 2,72 2,72 2,											
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$											
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		13,923		-			14,655		-		20,129
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				_		,	2 0 5 0				11,282
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$											41,692 6,496
Asset backed securities Non CDO securities where the securities by applies - - 1,397 2 1,317 44.4 Definition of guaranteed by: Concolid and guaranteed by: Concolid and municipal - - 3,514 - 2,508 - 2,508 - 2,508 - 2,508 - 2,508 - 2,508 - 2,508 - 2,508 -		- 5,000		-			-	,	_		482
Corporate debt and other debt - 25,342 19 25,361 1 23,643 21 23,64 Equilities 59,873 83,830 1,312 145,015 57,801 87,433 1,300 146,55 Investment (1) - 976 - 9576 - 657 - 6 Condition or guaranteed by: - 3,514 - 3,5084 210 20,665 - 20,88 U.S. stote, municipal and ogencies (1) - 4,148 - 4,144 - 2,898 - 20,666 - 20,88 Other OEC government (1) - 2,866 2,7 2,893 - 2,73 2,77 2,77 2,77 2,77 2,77 2,77 3,73 15,3 17,6 5 1,893 - 2,865 2,833 - 2,833 - 2,835 1,737 15,3 17,57 15,3 17,57 15,3 17,57 15,3 17,57 15,3 17,57 17,37 <td>Asset-backed securities</td> <td></td>	Asset-backed securities										
		-									1,335
Investment 59,873 83,830 1,312 145,015 57,801 87,433 1,300 146,5 Investment (I) Control of and municipal Provincia and municipal Other DEC government - 976 - 677 - 657 - 6 657 - 6 657 - 6 657 - 6 657 - 6 657 - 6 288 - 288 - 288 - 288 - 288 - 288 - 288 - 288 - 288 - 288 - 870 - 7.300 - 7.3 7.3 7.351 17.6 7.6 - 7.800 - 7.800 - 7.800 - 7.300 - 7.330 1.31 2.2449 158 2.24607 - 7.310 1.75 7.7 6 - 2.216 - 2.2449 152 56.960 4.29 9.59 1.1827 - 2.246		41 576									23,665 41,453
Investment Debit issued or guaranteed by: Grandian government (1) Federal - 976 - 657 - 667 - 657 - 6 Provincial and municipal U.S. stote, municipal and geneties (1) Anertogenetics (1) - 3,514 - 3,514 - 2,893 - 2,893 - 2,893 - 2,893 - 2,675 27 2,77 Anertogenebacked securities (1) Actibucted securities - 6,893 - 6,893 - 6,893 - 7,800 - 7,37 Thor CDD socurities - 828 - 828 - 849 - 8 Corporate debt and other debt - 22,449 158 2293 521 42 127 294 4 Assets purchosed under reverse repurchose greements and securities borrowed - 261,216 - 246,008 - 246,00 9,9 Derivatives - 219 - 219 - 146,500 22 256,7 1,183 3									-		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		39,073	03,030	1,512		145,015	57,801	87,433	1,300		140,554
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											
Provincial and municipal - 3,514 - 2,898 - 2,888 - 2,889 - 2,889 - 2,889 - 2,889 - 2,889 - 2,889 - 2,885 - 2,885 - 2,885 - 2,885 - 2,885 - 2,885 - 2,885 - 2,885 - 2,885 - 2,885 - 2,885 - 7,300 - 7,33 Corporate debt and other debt - 2,2449 158 22,607 - 17,337 153 11,65 14 - 2,469 142 127 244 44 158 233 521 42 126 - 246,068 - 246,068 - 246,068 - 246,068 - 246,068 - 246,068 - 246,06 - 246,06 - 246,068 - 246,06 - 246,06 - 246,06 - 246,06 -<											
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				-					-		657
Other OECD government - 4,148 - 4,148 - 4,251 - 4,22 Mortgoge backed securities (t) - 2,866 27 2,893 - 2,675 27 27.7 Asset-backed securities (the field back of backed securities (the field back			· · ·	-							2,898
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			· · ·	_		,		,			4,251
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		-							27		2,702
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$											
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		-									7,300 849
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		_									849 17,690
Assets purchased under reverse repurchase agreements and securities borrowed Loans $-261,216$ $-10,832$ $-261,216$ -9595 $-261,216$ $-10,832$ $-261,216$ -9955 $-261,216$ $-10,832$ $-261,216$ -9955 $-261,216$ $-10,832$ $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -99555 -995656 -995656652 Other Other contracts $-32,273$ 685 $32,341$ -7219 -7219 $-292,94$ 680 $99.96666666666666666666666666666666666$		43	· · ·			,					463
Assets purchased under reverse repurchase agreements and securities borrowed Loans $-261,216$ $-10,832$ $-261,216$ -9595 $-261,216$ $-10,832$ $-261,216$ -9955 $-261,216$ $-10,832$ $-261,216$ -9955 $-261,216$ $-10,832$ $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -9955 $-261,216$ -99555 -995656 -995656652 Other Other contracts $-32,273$ 685 $32,341$ -7219 -7219 $-292,94$ 680 $99.96666666666666666666666666666666666$		169	76,817	478		77,464	252	56,960	474		57,686
agreements and securities borrowed $ 261,216$ $ 246,068$ $ 246,068$ Loans $ 10,832$ 995 $11,827$ $ 9,294$ 680 $9,90$ Other $ 10,832$ 995 $11,827$ $ 9,294$ 680 $9,90$ Derivatives $ 10,832$ 995 $11,827$ $ 9,294$ 680 $9,90$ Derivatives $ 2273$ 68 $32,231$ $ 46,095$ 349 $46,4$ Coredit derivatives $2,556$ $13,154$ 36 $15,746$ $2,852$ $12,674$ 11 $15,56$ Other contracts $2,557$ $91,438$ 529 $94,524$ $2,853$ $98,994$ 423 $102,2$ Total derivatives $2,557$ $91,438$ 529 $94,524$ $2,853$ $98,994$ 423 $102,2$ Other assets $1,339$ $1,634$ 80 $3,053$ $1,119$ $1,960$ 77 $3,1$ Other assets $1,339$ $1,634$ 80 $3,053$ $1,119$ $1,960$ 77 $3,1$ Deposits $ 117,832$ $ 117,832$ $ 117,832$ $ 117,832$ $ 13,032$ $ 3,032$ Deposits $ 117,832$ $ 117,832$ $ 117,832$ $ 117,54$ $18,080$ $ 3,624$ $20,512$ $14,557$ $ 30,302$ Derivatives $-$ <	Assets purchased under reverse repurchase		,					,			,
Other Derivatives Interest rate contracts146,50042246,923146,09534946,4Foreign exchange contracts Credit derivatives-32,2736832,341-40,7684840.8Credit derivatives Valuation adjustments2,55613,1543615,7462,85212,6741115,5Valuation adjustments-7(708)3(705)(712)15(6Total gross derivatives Netting adjustments2,55791,43852994,5242,85398,994423102,2Total derivatives Other assets1,3391,634803,0531,1191,960773,1States Deposits Densits Densits-5 16,966268\$ (542) \$611,708\$ 62,025 \$ 522,992 \$ 2,954\$ (710) \$ 587,2Financial Liabilities Deposits Densits117,832-117,832-111,540-111,5Basiness and government Doligations related to assets sold under repurchase agreements and securities loaned-34,370-3,450-3,032-2,2,600,0<		-	261,216	-		261,216	-	246,068	-		246,068
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		-	10,832	995		11,827	-	9,294	680		9,974
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$											
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		1	46.500	422		46.923	1	46.095	349		46,445
$\begin{array}{c c c c c c c c c c c c c c c c c c c $											40,816
Valuation adjustments - (708) 3 (705) - (712) 15 (6 Total gross derivatives Netting adjustments 2,557 91,438 529 94,524 2,853 98,994 423 102,2 Total derivatives Other assets 1,339 1,634 80 3,053 1,119 1,960 77 3,1 S63,938 \$544,918 \$3,394 \$ (542) \$611,708 \$ 62,025 \$ 522,992 \$ 2,954 \$ (710) \$ 587,2 Financial Liabilities Deposits Personal Bank - \$ 16,966 \$ 268 \$ 17,234 \$ - \$ 17,378 \$ 156 \$ \$ 17,55 Business and government Bank - 17,544 18,080 - 35,624 20,512 14,557 - 35,00 Other repurchase agreements and securities loaned - 247,170 - 247,170 - 218,612 - 218,612 - 218,612 - 218,61 - 32,02 - 32,00 - 33,00 - 32,624 20,512 14,557 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>169</td></t<>											169
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		2,556									15,537
Netting adjustments (542) (542) (710) (7 Total derivatives Other assets 1,339 1,634 80 3,053 1,119 1,960 77 3,1 \$63,938 \$544,918 \$3,394 \$ (542) \$611,708 \$ 62,025 \$ 522,992 \$ 2,954 \$ (710) \$ 587,2 Financial Liabilities Deposits Personal Business and government Bank \$ - \$ 16,966 \$ 268 \$ \$ 17,234 \$ - \$ 17,378 \$ 156 \$ \$ 17,57 Other Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities 17,544 18,080 - 35,624 20,512 14,557 - 35,00 Derivatives Interest rate contracts - 39,622 1,032 40,654 - 39,165 934 40,0,0 Foreign exchange contracts - 39,373 43 34,416 - 40,183 27 40,2 Credit derivatives - 393 - 393 - 282 - 2 2 Other contracts 2,560 17,026		-	. ,			. ,		. ,			(697
Total derivatives Other assets 93,982 1,119 1,960 77 3,1 \$63,938 \$544,918 \$3,394 \$ (542) \$611,708 \$ 62,025 \$ 522,992 \$ 2,954 \$ (710) \$ 587,2 Financial Liabilities Deposits Personal Bank \$ - \$ 16,966 \$ 268 \$ 17,234 \$ - \$ 17,378 \$ 156 \$ 17,57 Business and government Bank \$ - \$ 16,966 \$ 268 \$ 17,234 \$ - \$ 17,378 \$ 156 \$ 111,54 Other • 117,832 - 117,832 - 111,540 - 111,540 - 111,540 - 111,540 - 111,540 - 111,540 - 111,540 - 3,032 - 2,18,612 - 2,18,612 - 2,18,612 - 2,247,170 - 2,47,170 - 2,47,170 - 2,47,170 - 2,47,170 - 2,47,170 - 2,47,170 - 2,47,170		2,557	91,438	529	(542)			98,994	423	(710)	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					<u> </u>	. ,				\ · · /	101,560
Financial Liabilities Deposits Personal Business and government Bank\$ - \$ 16,966 \$ 268 - 117,832 - 117,832 - 117,832 - 117,832 - 117,832 - 117,832 - 117,832 - 117,832 - 111,540 - 111,540 <b< td=""><td></td><td>1,339</td><td>1,634</td><td>80</td><td></td><td></td><td>1,119</td><td>1,960</td><td>77</td><td></td><td>3,156</td></b<>		1,339	1,634	80			1,119	1,960	77		3,156
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		\$63,938	\$544,918	\$3,394	\$ (542) \$	\$611,708	\$ 62,025 \$	522,992	\$ 2,954	\$ (710)	\$ 587,261
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Financial Liabilities										
Business and government Bank - 117,832 - 1117,832 - 1117,832 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 1117,540 - 30,02 - 1117,544 18,080 - 35,02 - 12,612 <t< td=""><td>Deposits</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Deposits										
Bank - 3,450 - 3,450 - 3,032 - 3,0 Other Obligations related to securities sold short 17,544 18,080 - 35,624 20,512 14,557 - 35,0 Obligations related to assets sold 17,544 18,080 - 35,624 20,512 14,557 - 35,0 Obligations related to assets sold 17,544 18,080 - 247,170 - 218,612 140,612 218,612		\$		\$ 268	ş <u>ş</u>		\$		\$ 156	Ş	, , , , , , , , , , , , , , , , , , , ,
Other 17,544 18,080 35,624 20,512 14,557 - 35,00 Obligations related to assets sold under repurchase agreements and securities loaned - 247,170 - 247,170 - 218,612 - 218,66 Derivatives - 39,622 1,032 40,654 - 39,165 934 40,0 Foreign exchange contracts - 39,373 43 34,416 - 40,183 27 40,2 Credit derivatives - 393 - 393 - 282 - 2 2 0 2 0 18,6 18,6 18,6 18,6 18,6 18,6 14,557 - 2 14,557 - 2 18,6 14,557 - 2 14,557 - 2 18,6 14,57 - 2 14,57 - 2 14,57 - 2 14,57 - 2 14,57 - 2 14,57 - 2 14,5		_		_					_		3,032
Obligations related to assets sold under repurchase agreements and securities loaned - 247,170 - 247,170 - 218,612 - 218,6 Derivatives - 39,622 1,032 40,654 - 39,165 934 40,0 Foreign exchange contracts - 34,373 43 34,416 - 40,183 27 40,2 Credit derivatives - 393 - 282 - 22 Other contracts 2,560 17,026 191 19,777 2,675 15,776 206 18,6 Valuation adjustments - (74) (13) (87) - 12 (7) Total gross derivatives 2,560 91,340 1,253 95,153 2,675 95,418 1,160 99,2 Netting adjustments (542) (542) (710) (7) (7) (7) Total derivatives 57 (1,529) 59 (1,413) 102 (1,280) 60 (1,1)			5,150			5,150		5,052			5,052
under repurchase agreements and securities loaned - 247,170 - 247,170 - 218,612 - 218,6 Derivatives - 39,622 1,032 40,654 - 39,165 934 40,0 Interest rate contracts - 34,373 43 34,416 - 40,183 27 40,2 Credit derivatives - 393 - 393 - 282 - 22 Other contracts 2,560 17,026 191 19,777 2,675 15,776 206 18,6 Valuation adjustments - (74) (13) (87) - 12 (7) Total gross derivatives 2,560 91,340 1,253 95,153 2,675 95,418 1,160 99,2 Netting adjustments 57 (1,529) 59 94,611 102 (1,280) 60 (1,1)		17,544	18,080	-		35,624	20,512	14,557	-		35,069
loaned - 247,170 - 247,170 - 218,612 - 218,6 Derivatives - 39,622 1,032 40,654 - 39,165 934 40,0 Interest rate contracts - 34,373 43 34,416 - 40,183 27 40,2 Credit derivatives - 393 - 282 - 22 22 40,2 20 20 0 101,026 191 19,777 2,675 15,776 206 18,6 Valuation adjustments - (74) (13) (87) - 12 (7) Total gross derivatives 2,560 91,340 1,253 95,153 2,675 95,418 1,160 99,2 Netting adjustments - (1,529) 59 (1,413) 102 (1,280) 60 (1,1)											
Derivatives - 39,622 1,032 40,654 - 39,165 934 40,0 Foreign exchange contracts - 34,373 43 34,416 - 40,183 27 40,2 Credit derivatives - 393 - 282 - 22 Other contracts 2,560 17,026 191 19,777 2,675 15,776 206 18,6 Valuation adjustments - (74) (13) (87) - 12 (7) Total gross derivatives 2,560 91,340 1,253 95,153 2,675 95,418 1,160 99,2 Netting adjustments - (542) (542) (710) (7 Total derivatives 57 (1,529) 59 (1,413) 102 (1,280) 60 (1,1		_	247 170	_		247 170		218 612	_		218 612
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			247,170			247,170		210,012			210,012
Credit derivatives - 393 - 393 - 282 - 22 Other contracts 2,560 17,026 191 19,777 2,675 15,776 206 18,6 Valuation adjustments - (74) (13) (87) - 12 (7) Total gross derivatives 2,560 91,340 1,253 95,153 2,675 95,418 1,160 99,2 Netting adjustments (542) (542) (542) (542) (710) (7) Total derivatives 57 (1,529) 59 (1,413) 102 (1,280) 60 (1,141)		-		1,032			-				40,099
Other contracts 2,560 17,026 191 19,777 2,675 15,776 206 18,6 Valuation adjustments - (74) (13) (87) - 12 (7) Total gross derivatives Netting adjustments 2,560 91,340 1,253 95,153 2,675 95,418 1,160 99,2 Total derivatives Other liabilities 57 (1,529) 59 (1,413) 102 (1,280) 60 (1,1)		-					-	,			40,210
Valuation adjustments - (74) (13) (87) - 12 (7) Total gross derivatives Netting adjustments 2,560 91,340 1,253 95,153 2,675 95,418 1,160 99,2 Total derivatives Other liabilities 57 (1,529) 59 94,611 102 (1,280) 60 (1,1		2 560									282 18,657
Total gross derivatives Netting adjustments 2,560 91,340 1,253 95,153 (542) 2,675 95,418 1,160 99,2 (710) 99,2 (7 Total derivatives Other liabilities 57 (1,529) 59 (1,413) 102 (1,280) 60 (1,1)						18,037
Netting adjustments (542) (542) (710) (7 Total derivatives Other liabilities 57 (1,529) 59 94,611 (1,413) 102 (1,280) 60 (1,1	· · · · · · · · · · · · · · · · · · ·	2 560	. ,	. ,		. ,				,	99,253
Other liabilities 57 (1,529) 59 (1,413) 102 (1,280) 60 (1,1)		2,500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,235	(542)		,	55,410	1,100		
						94,611					98,543
\$20,161 \$493,309 \$1,580 \$ (542) \$514,508 \$ 23,289 \$ 459,257 \$ 1,376 \$ (710) \$ 483,2	Other liabilities	57	(1,529)	59		(1,413)	102	(1,280)	60		(1,118
		\$20,161	\$493,309	\$1,580	\$ (542) \$	\$514,508	\$ 23,289 \$	459,257	\$ 1,376	\$ (710)	\$ 483,212

As at January 31, 2020, residential and commercial mortgage-backed securities (MBS) included in all fair value levels of trading securities were \$20,009 million and \$nil (October 31, 2019 – \$22,365 million and \$nil), respectively, and in all fair value levels of Investment securities were \$9,168 million and \$2,099 million (October 31, 2019 – \$6,474 million and \$2,046 million), respectively. OECD stands for Organisation for Economic Co-operation and Development. CDO stands for collateralized debt obligations. (1)

(2) (3)

Fair value measurements using significant unobservable inputs (Level 3 Instruments)

A financial instrument is classified as Level 3 in the fair value hierarchy if one or more of its unobservable inputs may significantly affect the measurement of its fair value. In preparing the financial statements, appropriate levels for these unobservable input parameters are chosen so that they are consistent with prevailing market evidence or management judgment. Due to the unobservable nature of the prices or rates, there may be uncertainty about the valuation of these Level 3 financial instruments.

During the three months ended January 31, 2020, there were no significant changes made to the valuation techniques and ranges and weighted averages of unobservable inputs used in the determination of fair value of Level 3 financial instruments. As at January 31, 2020, the impacts of adjusting one or more of the unobservable inputs by reasonably possible alternative assumptions did not change significantly from the impacts disclosed in our 2019 Annual Consolidated Financial Statements.

Changes in fair value measurement for instruments measured on a recurring basis and categorized in Level 3

			For t	he three mon	ths ended Ja	nuary 31, 20	20			
(Millions of Canadian dollars)	Fair value at beginning of period	Gains (losses) included in earnings		Purchases (issuances)		into		at end of		nings for
Assets										
Securities										
Trading										
Debt issued or guaranteed by:										
U.S. state, municipal and agencies	\$ 58	\$ –	\$ –	\$ -	\$ (3)\$ -	\$ -	\$ 55	\$	-
Asset-backed securities										
Non-CDO securities	2	_		-	-		-	2		-
Corporate debt and other debt	21	(1			· · ·		_	19		(1)
Equities	1,219	(27) 4	71	(28) –	(3)) 1,236		(9)
	1,300	(28) 4	71	(32) –	(3)) 1,312		(10)
Investment										
Mortgage-backed securities	27	-	-	-	-	-	-	27		n.a.
Corporate debt and other debt	153	-	5	-	-	-	-	158		n.a.
Equities	294	-	-	-	(1) –	-	293		n.a.
	474	-	5	-	(1) –	_	478		n.a.
Loans	680	26	-	318	(9) 8	(28)) 995		28
Other										
Net derivative balances (3)										
Interest rate contracts	(585)	4	-	(36) 1	-	6	(610))	4
Foreign exchange contracts	21	1	-	11		(5)				(1)
Other contracts	(195)) (15) 1	(2		· · · /	58	(155))	(8)
Valuation adjustments	22	-	-	-	(6		-	16		-
Other assets	77	7		-	(4) –	-	80		7
	\$ 1,794	\$ (5)\$10	\$ 362	\$ (43)\$ (7)	\$ 30	\$ 2,141	\$	20
Liabilities										
Deposits										
Personal	\$ (156)	\$ (1)\$ –	\$ (174)\$ 10	\$ (16)	\$ 69	\$ (268)) \$	3
Business and government	-	-	-	-	-	-	-	-		-
Other										
Other liabilities	(60)	(4) –	3	2	-	-	(59))	(4)
	\$ (216)	\$ (5)\$ –	\$ (171)\$ 12	\$ (16)	\$ 69	\$ (327)) \$	(1)

Note 3 Fair value of financial instruments (continued)

				For tl	ne three mor	ths ended Jo	inuary 31, 20	19			
(Millions of Canadian dollars)	Fair value at beginning of period		i (losses) included earnings	luded in	Purchases (issuances)	Settlemen (sales) and other (2	l into	out of			Gains included rnings for s still held
Assets											
Securities											
Trading											
Debt issued or guaranteed by:											
U.S. state, municipal and agencies Asset-backed securities	\$ 66	\$	(1)	\$ -	\$ –	\$ -	- \$ -	\$ –	\$ 65	\$	_
Non-CDO securities	110		15	-	-	(116	5) –	-	9		1
Corporate debt and other debt	21		1	-	-	-	· –	-	22		_
Equities	1,148		(18)	-	80	(143	5) 9	-	1,076		(5
	1,345		(3)	-	80	(259) 9	_	1,172		(4
Investment											
Mortgage-backed securities	-		-	-	27	-	· _	-	27		n.a.
Corporate debt and other debt	192		(3)	2	-	(56) –	-	135		n.a.
Equities	237		-	10	-	-	· –	-	247		n.a.
	429		(3)	12	27	(56	-) –	-	409		n.a.
Loans	551		17	1	264	(2	2) -	(5) 826		16
Other											
Net derivative balances (3)											
Interest rate contracts	(504)	(68)	-	-	40)	(6
Foreign exchange contracts	21		(7)	6	2	-	(.				(1
Other contracts	(84)	45	-	(9		, ,) (14)	60
Valuation adjustments	1		-	-	-	12		-	13		_
Other assets	65		-	-	-	(4	-) –	-	61		
	\$ 1,824	\$	(19)	\$ 19	\$ 364	\$ (292	2)\$ (7)\$ (48)\$ 1,841	\$	65
Liabilities											
Deposits											
Personal	\$ (390	\$	(30)	\$ (1)	\$ (9)\$ 5	\$ (18	,) \$	2
Business and government	5		-	-	-	-	· –	(5) –		_
Other	1								1	, ,	
Other liabilities	(68)	-	-	-	16		-	(52)	1
	\$ (453	\$	(30)	\$ (1)	\$ (9)\$ 21	\$ (18)\$ 347	\$ (143) \$	3

(1) These amounts include the foreign currency translation gains or losses arising on consolidation of foreign subsidiaries relating to the Level 3 instruments, where applicable. The unrealized gains on Investment securities recognized in OCI were \$4 million for the three months ended January 31, 2020 (January 31, 2019 – gains of \$11 million), excluding the translation gains or losses arising on consolidation.

2) Other includes amortization of premiums or discounts recognized in net income.

(3) Net derivatives as at January 31, 2020 included derivative assets of \$529 million (January 31, 2019 – \$420 million) and derivative liabilities of \$1,253 million (January 31, 2019 – \$1,047 million).

n.a. not applicable

Transfers between fair value hierarchy levels for instruments carried at fair value on a recurring basis

Transfers between Level 1 and Level 2, and transfers into and out of Level 3 are assumed to occur at the end of the period. For an asset or a liability that transfers into Level 3 during the period, the entire change in fair value for the period is excluded from the Gains (losses) included in earnings for positions still held column of the above reconciliation, whereas for transfers out of Level 3 during the period, the entire change in fair value for the period is included in the same column of the above reconciliation.

Transfers between Level 1 and 2 are dependent on whether fair value is obtained on the basis of quoted market prices in active markets (Level 1).

During the three months ended January 31, 2020, transfers out of Level 1 to Level 2 included Trading U.S. state, municipal and agencies debt and Obligations related to securities sold short of \$722 million and \$233 million, respectively.

During the three months ended January 31, 2020 there were no significant transfers out of Level 2 to Level 1.

Transfers between Level 2 and Level 3 are primarily due to either a change in the market observability for an input, or a change in an unobservable input's significance to a financial instrument's fair value.

During the three months ended January 31, 2020 there were no significant transfers in or out of Level 2 and Level 3.

Net interest income from financial instruments

Interest and dividend income arising from financial assets and financial liabilities and the associated costs of funding are reported in Net interest income.

	For the three	months ended
(Millions of Canadian dollars)	January 31 2020	January 31 2019 (1)
Interest and dividend income (2), (3) Financial instruments measured at fair value through profit or loss (4) Financial instruments measured at fair value through other comprehensive income Financial instruments measured at amortized cost	\$ 2,985 309 6,944	\$ 2,887 272 6,990
	10,238	10,149
Interest expense (2) Financial instruments measured at fair value through profit or loss Financial instruments measured at amortized cost (5)	\$ 2,360 2,657	\$ 2,555 2,747
	5,017	5,302
Net interest income	\$ 5,221	\$ 4,847

(1) Amounts have been revised from those previously presented.

(2) Excludes the following amounts related to our insurance operations and included in Insurance premiums, investment and fee income in the Condensed Consolidated

Statements of Income: Interest income of \$132 million (January 31, 2019 - \$129 million), and Interest expense of \$2 million (January 31, 2019 - \$1 million).

(3) Includes dividend income for the three months ended January 31, 2020 of \$608 million (January 31, 2019 – \$437 million), which is presented in Interest and dividend income in the Condensed Consolidated Statements of Income.

(4) Commencing Q4 2019, the interest component of the valuation of certain deposits carried at fair value through profit or loss (FVTPL) previously presented in trading revenue is presented in net interest income. Comparative amounts have been reclassified to conform with this presentation.

(5) Includes interest expense on lease liabilities for the three months ended January 31, 2020 of \$31 million, due to the adoption of IFRS 16.

Note 4 Securities

Unrealized gains and losses on securities at FVOCI (1), (2)

								As	at						
			J	anuary 3	31, 20	020						October	31, 20)19	
(Millions of Canadian dollars)	Amo	Cost/ rtized cost	unr	Gross ealized gains	un	Gross realized losses	F	Fair value	Amo	Cost/ ortized cost	unr	Gross ealized gains	un	Gross realized losses	Fair value
Debt issued or guaranteed by: Canadian government															
Federal (3)	\$	972	\$	4	\$	-	\$	976	\$	655	\$	3	\$	(1)	\$ 657
Provincial and municipal		3,410		104		_		3,514		2,878		43		(23)	2,898
U.S. state, municipal and agencies (3)		34,941		302		(159)		35,084		20,787		215		(126)	20,876
Other OECD government		4,147		3		(2)		4,148		4,254		2		(5)	4,251
Mortgage-backed securities (3)		2,900		1		(8)		2,893		2,709		1		(8)	2,702
Asset-backed securities															
CDO		6,897		2		(6)		6,893		7,334		1		(35)	7,300
Non-CDO securities		828		3		(3)		828		847		4		(2)	849
Corporate debt and other debt		22,550		62		(5)		22,607		17,655		45		(10)	17,690
Equities		306		218		(3)		521		248		218		(3)	463
	\$	76,951	\$	699	\$	(186)	\$`	77,464	\$	57,367	\$	532	\$	(213)	\$ 57,686

(1) Excludes \$44,188 million of held-to-collect securities as at January 31, 2020 that are carried at amortized cost, net of allowance for credit losses (October 31, 2019 – \$44,784 million).

(2) Gross unrealized gains and losses includes \$(3) million of allowance for credit losses on debt securities at FVOCI as at January 31, 2020 (October 31, 2019 – \$(3) million) recognized in income and Other components of equity.

(3) The majority of the MBS are residential. Cost/Amortized cost, Gross unrealized gains, Gross unrealized losses and Fair value related to commercial MBS are \$2,105 million, \$1 million, \$7 million and \$2,099 million, respectively as at January 31, 2020 (October 31, 2019 – \$2,051 million, \$1 million, \$6 million and \$2,046 million, respectively).

Allowance for credit losses on investment securities

The following tables reconcile the opening and closing allowance for debt securities at FVOCI and amortized cost by stage. Reconciling items include the following:

- Transfers between stages, which are presumed to occur before any corresponding remeasurement of the allowance.
- Purchases, which reflect the allowance related to assets newly recognized during the period, including those assets that were derecognized following a modification of terms.
- Sales and maturities, which reflect the allowance related to assets derecognized during the period without a credit loss being incurred, including those assets that were derecognized following a modification of terms.
- Changes in risk, parameters and exposures, which comprise the impact of changes in model inputs or assumptions, including changes in forward-looking macroeconomic conditions; partial repayments; changes in the measurement following a transfer between stages; and unwinding of the time value discount due to the passage of time.

Note 4 Securities (continued)

Allowance for credit losses – securities at FVOCI (1)

						For	the three n	nonth	s ende	d					
				lanuai	ry 31, 2	2020					Januar	y 31, 20)19		
		Perfo	orming	5	Im	paired			Perfo	rming	3	Imp	aired		
(Millions of Canadian dollars)	Sta	ige 1	Sta	ge 2	Sto	ge 3 (2)	Total	Sto	ige 1	Sta	ge 2	Stag	e 3 (2)	Тс	otal
Balance at beginning of period	\$	4	\$	_	\$	(7)	\$ (3)	\$	4	\$	7	\$	_	\$	11
Provision for credit losses															
Transfers to stage 1		-		-		-	_		-		-		_		_
Transfers to stage 2		_		-		-	-		-		-		-		-
Transfers to stage 3		_		-		-	-		-		-		-		-
Purchases		2		-		-	2		2		-		_		2
Sales and maturities		_		-		-	-		(1)		(7)		-		(8)
Changes in risk, parameters and exposures		_		-		(2)	(2)		1		-		3		4
Exchange rate and other		-		-		-	-		-		-		-		-
Balance at end of period	\$	6	\$	-	\$	(9)	\$ (3)	\$	6	\$	-	\$	3	\$	9

Expected credit losses on debt securities at FVOCI are not separately recognized on the balance sheet as the related securities are recorded at fair value. The cumulative (1)

amount of credit losses recognized in income is presented in Other components of equity. Reflects changes in the allowance for purchased credit impaired securities.

(2)

Allowance for credit losses - securities at amortized cost

						For	the three m	nonth	s ende	d				
				January	y 31,	2020					Januar	y 31, 2	019	
		Perfo	rmin	g	In	npaired			Perfo	rmir	ng	Imp	oaired	
(Millions of Canadian dollars)	Sta	ge 1	St	age 2		Stage 3	Total	Sto	ige 1	St	age 2	5	Stage 3	Total
Balance at beginning of period	\$	5	\$	19	\$	_	\$ 24	\$	6	\$	32	\$	_	\$ 38
Provision for credit losses														
Transfers to stage 1		-		_		_	-		_		-		_	_
Transfers to stage 2		-		_		_	-		_		-		_	_
Transfers to stage 3		-		_		_	-		_		-		_	_
Purchases		2		_		_	2		1		-		_	1
Sales and maturities		-		-		-	-		-		-		-	-
Changes in risk, parameters and exposures		(2)		(1)		-	(3)		(1)		(2)		-	(3)
Exchange rate and other		-		(1)		-	(1)		-		-		-	_
Balance at end of period	\$	5	\$	17	\$	-	\$ 22	\$	6	\$	30	\$	-	\$ 36

Credit risk exposure by internal risk rating

The following table presents the fair value of debt securities at FVOCI and gross carrying amount of securities at amortized cost. Risk ratings are based on internal ratings used in the measurement of expected credit losses, as at the reporting date, as outlined in the internal ratings maps in the Credit risk section of our 2019 Annual Report.

				As	at						
		Januar	y 31, 2020					Octobe	er 31, 20	019	
	Perform	ning	Impaired			Perforn	ning		lm	paired	
(Millions of Canadian dollars)	Stage 1	Stage 2	Stage 3 (1)	Total		Stage 1		Stage 2	Sto	ige 3 (1)	Total
Investment securities Securities at FVOCI											
Investment grade	\$ 76,356	\$ 1	\$ –	\$ 76,357	\$	56,671	\$	1	\$	_	\$ 56,672
Non-investment grade	429	1	-	430		400		1		-	401
Impaired	-	-	155	155		-		-		150	150
Items not subject to impairment (2)	\$ 76,785	\$ 2	\$ 155	\$ 76,942 522	\$	57,071	\$	2	\$	150	\$ 57,223 463
				\$ 77,464							\$ 57,686
Securities at amortized cost Investment grade Non-investment grade Impaired	\$ 43,063 704 -	\$53 390 -	\$ – – –	\$ 43,116 1,094 -	\$	43,681 695 –	\$	46 386 -	\$	- - -	\$ 43,727 1,081 _
Allowance for credit losses	\$ 43,767 5	\$ 443 17	\$ -	\$ 44,210 22	\$	44,376 5	\$	432 19	\$	-	\$ 44,808 24
Amortized cost	\$ 43,762	\$ 426	\$ -	\$ 44,188	\$	44,371	\$	413	\$	-	\$ 44,784

Includes \$155 million of purchased credit impaired securities (October 31, 2019 - \$150 million). (1)

(2) Investment securities at FVOCI not subject to impairment represent equity securities designated as FVOCI.

Note 5 Loans and allowance for credit losses

Allowance for credit losses

							For	the three m	onths	ended								
			Ja	nuary 31, 20	020							Jo	anuar	y 31, 2019	Ð			
(Millions of Canadian dollars)	Balance at beginning of period	for c	vision credit osses	Net write-offs		Exchange rate and other	B	alance at end of period	be	ance at ginning f period	for	ovision credit losses	wri	Net te-offs		hange te and other	Bo	alance at end of period
Retail Residential mortgages Personal Credit cards Small business Wholesale Customers' liability under	\$ 402 935 832 61 1,165		(7) 121 177 14 102	\$ (8 (111 (139 (8 (41))	\$ (20) (5) (2) (1) (35)	\$	367 940 868 66 1,191	\$	382 895 760 51 979	\$	33 123 140 6 204	\$	(4) (113) (120) (5) (61)	\$	(2) (13) - (1) (12)	\$	409 892 780 51 1,110
acceptances	24		14	-		1		39		21		10		-		-		31
	\$ 3,419	\$ 4	421	\$ (307) \$	\$ (62)	\$	3,471	\$	3,088	\$	516	\$	(303)	\$	(28)	\$	3,273
Presented as: Allowance for loan losses Other liabilities – Provisions Customers' liability under	\$ 3,100 295						\$	3,139 292	\$	2,912 154							\$	3,061 180
acceptances Other components of equity	24							39 1		21 1								31 1

The following table reconciles the opening and closing allowance for loans and commitments, by stage, for each major product category.

Reconciling items include the following:

- Transfers between stages, which are presumed to occur before any corresponding remeasurements of the allowance.
- Originations, which reflect the allowance related to assets newly recognized during the period, including those assets that were derecognized following a modification of terms.
- Maturities, which reflect the allowance related to assets derecognized during the period without a credit loss being incurred, including those assets that were derecognized following a modification of terms.
- Changes in risk, parameters and exposures, which comprise the impact of changes in model inputs or assumptions, including changes in forward-looking macroeconomic conditions; partial repayments and additional draws on existing facilities; changes in the measurement following a transfer between stages; and unwinding of the time value discount due to the passage of time in stage 1 and stage 2.

Note 5 Loans and allowance for credit losses (continued)

Allowance for credit losses – Retail and wholesale loans

(Millions of Canadian dollars) Residential mortgages	9	Perfor	rminį	January		020						January	31, 20	19		
	5		rminį	*											-	
	5	hage 1		3	lm	paired				Perfor	ming	5	lm	paired		
Residential mortgages		Stage 1		Stage 2		Stage 3		Total		Stage 1		Stage 2		Stage 3		Total
	\$	146	\$	77	\$	179	\$	402	\$	142	\$	64	\$	176	\$	382
Transfers to stage 1 Transfers to stage 2 Transfers to stage 3		27 (4) (1)		(18) 6 (8)		(9) (2) 9		-		8 (3) (1)		(8) 4 (8)		- (1) 9		
Originations Maturities Changes in risk, parameters and exposures		16 (4) (45)		(3) 29		-		16 (7) (16)		13 (3) (18)		(2) 30		- - 13		13 (5) 25
Write-offs Recoveries		- -		_		(12) 4		(12) 4		-		_		(5) 1		(5) 1
Exchange rate and other		(3)		(3)		(14)		(20)		-		(1)		(1)		(2)
Balance at end of period	\$	132	\$	80	\$	155	\$	367	\$	138	\$	79	\$	192	\$	409
Personal Balance at beginning of period Provision for credit losses	\$	272	\$	520	\$	143	\$	935	\$	242	\$	512	\$	141	\$	895
Transfers to stage 1 Transfers to stage 2		119 (19)		(119) 19		-		-		132 (23)		(132) 23		-		-
Transfers to stage 3 Originations Maturities		(1) 25 (12)		(20) (23)		21 _ _		 25 (35)		23 (7)		(44) (30)		44 _ _		23 (37)
Changes in risk, parameters and exposures Write-offs Recoveries		(111) –		141		101 (149) 38		131 (149) 38		(132)		190´ 		79 (144) 31		137 (144) 31
Exchange rate and other		_		(1)		(4)		(5)		_		_		(13)		(13)
Balance at end of period	\$	273	\$	517	\$	150	\$	940	\$	235	\$	519	\$	138	\$	892
Credit cards Balance at beginning of period	\$	173	\$	659	\$	_	\$	832	\$	161	\$	599	Ś	_	\$	760
Provision for credit losses Transfers to stage 1		118		(118)	·	_	·	_		110		(110)		_	·	_
Transfers to stage 2 Transfers to stage 3		(22)		`22́ (88)		- 88		_		(19)		`19́ (80)		_ 80		_
Originations Maturities		2 (1)		_ (8)		_		2 (9)		1 (1)		(6)		_		1 (7)
Changes in risk, parameters and exposures Write-offs		(94) –		227 -		51 (174)		184 (174)		(84) _		190 -		40 (153)		146 (153)
Recoveries Exchange rate and other		(2)		_		35		35 (2)		_		_		33		33
	\$	174	\$	694	\$	_	\$	868	\$	168	\$	612	\$	_	\$	780
Small business	\$	29	Ś	10	\$	22	\$	61	\$	17	\$	16	\$	18	\$	51
Balance at beginning of period Provision for credit losses Transfers to stage 1	Ş	1	Ş	(1)	Ş	-	Ş	_	Ş	5	Ş	(5)	Ļ	-	Ş	-
Transfers to stage 2 Transfers to stage 3		(1)		1 (1)		- 1		-		(1)		1 (3)		-3		-
Originations Maturities Characteristics		3 (1)		(1)		-		3 (2)		3 (1)		(2)		-		3 (3)
Changes in risk, parameters and exposures Write-offs		(2)		4 –		11 (10)		13 (10)		(7)		11		2 (7)		6 (7)
Recoveries Exchange rate and other		_		_ (1)		2		2 (1)		_		_		2 (1)		2 (1)
	\$	29	\$	11	\$	26	\$	66	\$	16	\$	18	\$	17	\$	51
Wholesale Balance at beginning of period	\$	281	\$	396	\$	488	\$	1,165	\$	274	\$	340	\$	365	\$	979
Provision for credit losses Transfers to stage 1		27		(26)		(1)		_		24		(24)		_		_
Transfers to stage 2 Transfers to stage 3 Originations		(8) (1) 66		9 (18) -		(1) 19 –		- - 66		(9) (1) 68		11 (16) 10		(2) 17 _		- - 78
Maturities		(43)		(53)		-		(96)		(43)		(43)		-		(86)
Changes in risk, parameters and exposures Write-offs		(17) –		99 -		50 (54)		132 (54)		(11)		84 -		139 (68)		212 (68)
Recoveries Exchange rate and other		_ (5)		_		13 (30)		13 (35)		(1)		_ (1)		7 (10)		7 (12)
	\$	300	\$	407	\$	484	\$	1,191	\$	301	\$	361	\$	448	\$	1,110

Credit risk exposure by internal risk rating

The following table presents the gross carrying amount of loans measured at amortized cost, and the full contractual amount of undrawn loan commitments subject to the impairment requirements of IFRS 9. Risk ratings are based on internal ratings used in the measurement of expected credit losses as at the reporting date, as outlined in the internal ratings maps for Wholesale and Retail facilities in the Credit risk section of our 2019 Annual Report.

			January 2	1 202	0						Octobor	21 20	10		
	Chago 1		•				Total		Chargo 1						Tota
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3	34,277		6,526		320		91,123		85,009		6,934		307		92,250
\$	13,668	\$	103	\$	-	\$	13,771	\$	13,840	\$	103	\$	-	\$	13,943
	2,126		1,778		-		3,904		2,250		1,827		-		4,07
	125		1,428		-		1,553		137		1,432		-		1,569
	694		50		-		744		677		45		-		722
1	16,613		3,359		-		19,972		16,904		3,407		-		20,31
\$	2,257	\$	115	\$	_	\$	2,372	\$	2.200	\$	107	\$	_	\$	2,30
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			9,300		-				96,191		9,007		-		105,198
	3,269		<i>.</i> 1		-		3,270		3,986		-		-		3,986
		-		_		-									-
	\$ 20 \$ 20	13,903 3,023 40,873 	\$ 244,103 \$ 13,903 3,023 40,873 - 301,902 \$ 71,001 \$ 5,213 876 7,187 - 84,277 \$ 13,668 \$ 2,126 125 694 16,613 \$ 2,257 \$ 2,136 131 7 - 4,531 \$ 203,094 \$ 8,806 925 5,650 218,475 \$ 49,268 \$ 122,070 5,801 - 177,139 \$ 223,333 \$ 98,452 \$ 223,333 \$ 98,452 \$ 223,333 \$ 98,452 \$ 223,333 \$ 98,452 \$ 223,333 \$ 98,452 } 2,126 125 125 125 125 125 125 125 125	Stage 1 Stage 2 \$ 244,103 \$ 6,411 13,903 1,251 3,023 2,675 40,873 2,675 40,873 2,675 40,873 2,675 40,873 2,675 301,902 11,068 5 71,001 \$ 1,756 5,213 2,863 876 1,814 7,187 93 - - 84,277 6,526 \$ 13,668 \$ 103 2,126 1,778 125 1,428 694 50 16,613 3,359 \$ 2,257 \$ 115 2,136 611 131 223 7 - - - 4,531 949 \$ 203,094 \$ 1,936 8,806 245 925 193 5,650 126 218,475 2,500 \$ 49,	Stage 1Stage 2S\$ 244,103\$ 6,411\$13,9031,2513,0232,67540,873731 $ -$ 301,90211,068\$ 71,001\$ 1,756\$ 5,2132,863 876 1,8147,18793 $ -$ 84,2776,526\$ 13,668\$ 103\$ 2,1261,7781251,4286945016,6133,359\$ 2,257\$ 115\$ 2,1366111312237 $-$ 4,531949\$ 203,094\$ 1,936\$ 203,094\$ 1,936\$ 203,094\$ 1,936\$ 203,094\$ 1,936\$ 203,094\$ 1,936\$ 12,1635,650126218,4752,500\$ 49,26867\$ 122,07012,1635,801318 $ -$ 177,13912,5481 $ -$ \$ 223,333\$ 2\$ 9,300\$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Stage 1 Stage 2 Stage 3 \$ 244,103 \$ 6,411 \$ - 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(1) In certain cases where an internal risk rating is not assigned, we use other approved credit risk assessment or rating methodologies, policies and tools to manage our credit risk.

(2) Items not subject to impairment are loans held at FVTPL.

Note 5 Loans and allowance for credit losses (continued)

Loans past due but not impaired (1)

						As	at			
			January 3	1, 202	0			October	31, 2019	
					90 days				90 days	
(Millions of Canadian dollars)	1 to 29 days	30 t	o 89 days	and	greater	Total	1 to 29 days	30 to 89 days	and greater	Total
Retail	\$ 3,749	\$	1,423	\$	202	\$ 5,374	\$ 3,173	\$ 1,369	\$ 186	\$ 4,728
Wholesale	2,521		516		5	3,042	1,543	460	3	2,006
	\$ 6,270	\$	1,939	\$	207	\$ 8,416	\$ 4,716	\$ 1,829	\$ 189	\$ 6,734

Amounts presented may include loans past due as a result of administrative processes, such as mortgage loans on which payments are restrained pending payout due to sale (1) or refinancing. Past due loans arising from administrative processes are not representative of the borrowers' ability to meet their payment obligations.

Note 6 Deposits

				A	s at			
		Januar	y 31, 2020			Octobe	er 31, 2019	
(Millions of Canadian dollars)	Demand (1)	Notice (2)	Term (3)	Total	Demand (1)	Notice (2)	Term (3)	Total
Personal	\$ 149,105	\$ 51,253	\$ 101,644	\$ 302,002	\$ 143,958	\$ 49,806	\$ 100,968	\$ 294,732
Business and government	253,815	11,855	303,566	569,236	253,113	13,867	298,502	565,482
Bank	10,277	870	19,899	31,046	8,363	920	16,508	25,791
	\$ 413,197	\$ 63,978	\$ 425,109	\$ 902,284	\$ 405,434	\$ 64,593	\$ 415,978	\$ 886,005
Non-interest-bearing (4)								
Canada	\$ 94,688	\$ 5,884	\$ 248	\$ 100,820	\$ 93,163	\$ 5,692	\$ 137	\$ 98,992
United States	32,782	_	-	32,782	34,632	-	-	34,632
Europe (5)	871	-	-	871	760	_	-	760
Other International	5,620	5	-	5,625	5,225	5	-	5,230
Interest-bearing (4)								
Canada	235,619	15,861	336,966	588,446	228,386	15,306	333,118	576,810
United States	5,610	38,336	46,350	90,296	4,704	39,626	41,776	86,106
Europe (5)	32,998	880	30,668	64,546	33,073	825	30,090	63,988
Other International	5,009	3,012	10,877	18,898	5,491	3,139	10,857	19,487
	\$ 413,197	\$ 63,978	\$ 425,109	\$ 902,284	\$ 405,434	\$ 64,593	\$ 415,978	\$ 886,005

(1)

(2)

(3)

Demand deposits are deposits for which we do not have the right to require notice of withdrawal, which includes both savings and chequing accounts. Notice deposits are deposits for which we can legally require notice of withdrawal. These deposits are primarily savings accounts. Term deposits are deposits payable on a fixed date, and include term deposits, guaranteed investment certificates and similar instruments. The geographical splits of the deposits are based on the point of origin of the deposits and where the revenue is recognized. As at January 31, 2020, deposits denominated in U.S. dollars, British pounds, Euro and other foreign currencies were \$325 billion, \$27 billion, \$47 billion and \$31 billion, respectively (October 31, 2019 – \$321 billion, \$23 billion, (4) \$45 billion and \$31 billion, respectively).

(5) Europe includes the United Kingdom, Luxembourg, the Channel Islands, France and Italy.

Contractual maturities of term deposits

	As	at
(Millions of Canadian dollars)	January 31 2020	October 31 2019
Within 1 year:		
less than 3 months	\$ 116,904	\$ 94,585
3 to 6 months	49,773	62,814
6 to 12 months	91,855	92,507
1 to 2 years	42,322	50,055
2 to 3 years	36,091	31,852
3 to 4 years	32,132	31,373
4 to 5 years	22,043	21,130
Over 5 years	33,989	31,662
	\$ 425,109	\$ 415,978
Aggregate amount of term deposits in denominations of one hundred thousand dollars or more	\$ 388,000	\$ 379,000

Note 7 Employee benefits – Pension and other post-employment benefits

We offer a number of defined benefit and defined contribution plans which provide pension and post-employment benefits to eligible employees. The following tables present the composition of our pension and other post-employment benefit expense and the effects of remeasurements recorded in other comprehensive income.

Pension and other post-employment benefit expense

					For the three	mont	hs ended		
	_		Pensio	n pla	าร	Othe	r post-employ	ment	benefit plans
(Millions of Canadian dollars)		Jo	anuary 31 2020		January 31 2019		January 31 2020		January 31 2019
Current service costs Net interest expense (income) Remeasurements of other long term benefits		\$	92 5 -	\$	74 (5) -	\$	11 15 4	\$	10 16 2
Administrative expense			4		4		-		
Defined benefit pension expense Defined contribution pension expense		\$	101 63	\$	73 61	\$	30 -	\$	28
		\$	164	\$	134	\$	30	\$	28

Pension and other post-employment benefit remeasurements (1)

		For th	ne three	month	s ended		
	Defined benefit	pension p	lans	Other	post-employ	ment b	enefit plans
	January 31	Janu	iary 31		January 31	J	anuary 31
(Millions of Canadian dollars)	2020		2019		2020		2019
Actuarial (gains) losses:							
Changes in financial assumptions (2)	\$ 1,047	\$	607	\$	96	\$	57
Experience adjustments	-		-		-		(1)
Return on plan assets (excluding interest based on discount rate)	(507)		(144)		-		-
	\$ 540	\$	463	\$	96	\$	56

(1) Market based assumptions, including Changes in financial assumptions and Return on plan assets, are reviewed on a quarterly basis. All other assumptions are updated during our annual review of plan assumptions.

(2) Changes in financial assumptions in our defined benefit pension plans primarily relate to changes in discount rates.

Note 8 Significant capital and funding transactions

Preferred Shares

On December 17, 2019, we purchased for cash 200,000 depositary shares, each representing a one-fortieth interest in a share of our Fixed Rate/Floating Rate Non-Cumulative First Preferred Shares, Series C-2 (C-2 Preferred Shares), for aggregate total consideration, including accrued dividends, of US\$6 million. The purchased depositary and underlying C-2 Preferred Shares were subsequently cancelled. The C-2 Preferred Shares do not qualify as Tier 1 regulatory capital.

Subordinated debentures

On December 6, 2019, we redeemed all \$2,000 million of our outstanding 2.99% subordinated debentures due on December 6, 2024 for 100% of their principal amount plus interest accrued to, but excluding, the redemption date.

On December 23, 2019, we issued \$1,500 million of NVCC subordinated debentures. The notes bear interest at a fixed rate of 2.88% per annum until December 23, 2024, and at the three-month Canadian Dollar Offered Rate plus 0.89% thereafter until their maturity on December 23, 2029.

Common shares issued (1)

			or the three	months ended		
	Janu	ігу 31,	2020	January	31, 20)19
(Millions of Canadian dollars, except number of shares)	Number share (thousand	s	Amount	Number of shares (thousands)		Amount
Issued in connection with share-based compensation plans (2) Purchased for cancellation (3)	23 (6,99		18 (86)	159 (3,684)	\$	11 (45)
	(6,76) \$	(68)	(3,525)	\$	(34)

(1) The requirements of our dividend reinvestment plan (DRIP) are satisfied through either open market share purchases or shares issued from treasury. During the three months ended January 31, 2020 and January 31, 2019, our DRIP's requirements were satisfied through open market share purchases.

(2) Amounts include cash received for stock options exercised during the period and the fair value adjustment to stock options.

(3) During the three months ended January 31, 2020, we purchased for cancellation common shares at a total fair value of \$727 million (average cost of \$104.02 per share), with a book value of \$86 million (book value of \$12.34 per share). During the three months ended January 31, 2019, we purchased for cancellation common shares at a total fair value of \$348 million (average cost of \$94.40 per share), with a book value of \$12.35 per share). With a book value of \$12.35 per share).

Note 9 Earnings per share

		For the three m	nonth	s ended
(Millions of Canadian dollars, except share and per share amounts)		January 31 2020		January 31 2019
Basic earnings per share				
Net income	\$	3,509	\$	3,172
Preferred share dividends		(65)		(74)
Net income attributable to non-controlling interests		(5)		(2)
Net income available to common shareholders		3,439		3,096
Weighted average number of common shares (in thousands)	1	,427,599		1,437,074
Basic earnings per share (in dollars)	\$	2.41	\$	2.15
Diluted earnings per share				
Net income available to common shareholders	\$	3,439	\$	3,096
Dilutive impact of exchangeable shares		4		4
Net income available to common shareholders including dilutive impact of exchangeable shares		3,443		3,100
Weighted average number of common shares (in thousands)	1	,427,599		1,437,074
Stock options (I)		1,698		2,033
Issuable under other share-based compensation plans		750		737
Exchangeable shares (2)		3,013		3,351
Average number of diluted common shares (in thousands)	1	,433,060		1,443,195
Diluted earnings per share (in dollars)	\$	2.40	\$	2.15

(1) The dilutive effect of stock options was calculated using the treasury stock method. When the exercise price of options outstanding is greater than the average market price of our common shares, the options are excluded from the calculation of diluted earnings per share. For the three months ended January 31, 2020, no outstanding options were excluded from the calculation of diluted earnings per share. For the three months ended January 31, 2019, 1,364,706 outstanding options with an average price of \$99.73 were excluded from the calculation of diluted earnings per share.

(2) Includes exchangeable preferred shares.

Note 10 Legal and regulatory matters

We are a large global institution that is subject to many different complex legal and regulatory requirements that continue to evolve. We are and have been subject to a variety of legal proceedings, including civil claims and lawsuits, regulatory examinations, investigations, audits and requests for information by various governmental regulatory agencies and law enforcement authorities in various jurisdictions. Some of these matters may involve novel legal theories and interpretations and may be advanced under criminal as well as civil statutes, and some proceedings could result in the imposition of civil, regulatory enforcement or criminal penalties. We review the status of all proceedings on an ongoing basis and will exercise judgment in resolving them in such manner as we believe to be in our best interest. This is an area of significant judgment and uncertainty and the extent of our financial and other exposure to these proceedings after taking into account current accruals could be material to our results of operations in any particular period.

Our significant legal proceeding and regulatory matters are described in Note 26 of our 2019 Annual Consolidated Financial Statements.

Note 11 Results by business segment

	For the three months ended January 31, 2020											
(Millions of Canadian dollars)		ersonal & mmercial Banking	Ma	Wealth Inagement	ln	surance	I	nvestor & Treasury Services	м	Capital arkets (1)	orporate pport (1)	Total
Net interest income (2) Non-interest income	\$	3,226 1,384	\$	738 2,428	\$	– 1,994	\$	58 539	\$	1,161 1,387	\$ 38 (117)	\$ 5,221 7,615
Total revenue Provision for credit losses Insurance policyholder benefits, claims		4,610 342		3,166 (2)		1,994		597 -		2,548 79	(79) _	12,836 419
and acquisition expense Non-interest expense		- 1,984		_ 2,370		1,614 153		- 402		- 1,435	_ 34	1,614 6,378
Net income (loss) before income taxes Income taxes (recoveries)		2,284 598		798 175		227 46		195 52		1,034 152	(113) (107)	4,425 916
Net income	\$	1,686	\$	623	\$	181	\$	143	\$	882	\$ (6)	\$ 3,509
Non-interest expense includes: Depreciation and amortization	\$	234	\$	210	\$	15	\$	50	\$	127	\$ -	\$ 636

				Fo	r the three	mont	hs ended Ja	nuary	/ 31, 2019		
(Millions of Canadian dollars)	Personal & Ommercial Banking	Mo	Wealth anagement	lr	nsurance	I	nvestor & Treasury Services	Ν	Capital Aarkets (1)	Corporate upport (1)	Total
Net interest income (2), (3) Non-interest income (3)	\$ 3,134 1,284	\$	744 2,204	\$	_ 1,579	\$	(31) 662	\$	969 1,129	\$ 31 (116)	\$ 4,847 6,742
Total revenue Provision for credit losses Insurance policyholder benefits, claims and	4,418 348		2,948 26		1,579 –		631 _		2,098 140	(85)	11,589 514
acquisition expense Non-interest expense	_ 1,915		_ 2,164		1,225 154		_ 418		_ 1,230	_ 31	1,225 5,912
Net income (loss) before income taxes Income taxes (recoveries)	2,155 584		758 161		200 34		213 52		728 75	(116) (140)	3,938 766
Netincome	\$ 1,571	\$	597	\$	166	\$	161	\$	653	\$ 24	\$ 3,172
Non-interest expense includes: Depreciation and amortization	\$ 153	\$	147	\$	11	\$	34	\$	95	\$ _	\$ 440

(1)

(2)

Taxable equivalent basis. Interest revenue is reported net of interest expense as we rely primarily on net interest income as a performance measure. Commencing Q4 2019, the interest component of the valuation of certain deposits carried at FVTPL previously presented in trading revenue is presented in net interest income. Comparative amounts have been reclassified to conform with this presentation. (3)

Total assets and total liabilities by business segment

				As at January 31, 2	020		
	Personal &			Investor &			
	Commercial	Wealth		Treasury	Capital	Corporate	
(Millions of Canadian dollars)	Banking	Management	Insurance	Services	Markets	Support	Total
Total assets	\$ 489,522	\$ 109,969	\$ 20,293	\$ 144,707	\$ 666,824	\$ 44,989	\$ 1,476,304
Total liabilities	\$ 489,545	\$ 109,963	\$ 20,270	\$ 144,664	\$ 666,785	\$ (38,984)	\$ 1,392,243

				As at October 31, 2	019		
	Personal &			Investor &			
	Commercial	Wealth		Treasury	Capital	Corporate	
(Millions of Canadian dollars)	Banking	Management	Insurance	Services	Markets	Support	Total
Total assets	\$ 481,720	\$ 106,579	\$ 19,012	\$ 144,406	\$ 634,313	\$ 42,905	\$ 1,428,935
Total liabilities	\$ 481,745	\$ 106,770	\$ 19,038	\$ 144,378	\$ 634,126	\$ (40,747)	\$ 1,345,310

Note 12 Capital management

Regulatory capital and capital ratios

OSFI formally establishes risk-based capital and leverage targets for deposit-taking institutions in Canada. During the first quarter of 2020, we complied with all capital and leverage requirements, including the domestic stability buffer, imposed by OSFI.

Ac at

	As	As at		
	January 31	October 31		
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	2020	2019		
Capital (1)				
CET1 capital	\$ 63,054	\$ 62,184		
Tier 1 capital	68,709	67,861		
Total capital	78,220	77,888		
Risk-weighted Assets (RWA) used in calculation of capital ratios (1)				
Credit risk	\$ 428,067	\$ 417,835		
Market risk	28,415	28,917		
Operational risk	67,243	66,104		
Total RWA	\$ 523,725	\$ 512,856		
Capital ratios and Leverage ratio (1)				
CET1 ratio	12.0%	12.1%		
Tier 1 capital ratio	13.1%	13.2%		
Total capital ratio	14.9%	15.2%		
Leverage ratio	4.2%	4.3%		
Leverage ratio exposure (billions)	\$ 1,630	\$ 1,570		

(1) Capital, RWA, and capital ratios are calculated using OSFI Capital Adequacy Requirements based on the Basel III framework. The leverage ratio is calculated using OSFI Leverage Requirements Guideline based on the Basel III framework.

Shareholder Information

Corporate headquarters

Street address: Royal Bank of Canada 200 Bay Street Toronto, Ontario M5J 2J5 Canada Tel: 1-888-212-5533

Mailing address: P.O. Box 1 Royal Bank Plaza Toronto, Ontario M5J 2J5 Canada website: rbc.com

Transfer Agent and Registrar

Main Agent: Computershare Trust Company of Canada 1500 Robert-Bourassa Blvd. Suite 700 Montreal, Quebec H3A 3S8 Canada Tel: 1-866-586-7635 (Canada and the U.S.) or 514-982-7555 (International) Fax: 514-982-7580 website: computershare.com/rbc

Co-Transfer Agent (U.S.): Computershare Trust Company, N.A. 250 Royall Street Canton, Massachusetts 02021 U.S.A.

Co-Transfer Agent (U.K.): Computershare Investor Services PLC Securities Services – Registrars P.O. Box 82, The Pavilions, Bridgwater Road, Bristol BS99 6ZZ U.K.

Stock exchange listings (Symbol: RY)

Common shares are listed on: Canada – Toronto Stock Exchange (TSX) U.S. – New York Stock Exchange (NYSE) Switzerland – Swiss Exchange (SIX)

All preferred shares are listed on the TSX with the exception of the series C-2. The related depository shares of the series C-2 preferred shares are listed on the NYSE.

Valuation day price

For Canadian income tax purposes, Royal Bank of Canada's common stock was quoted at \$29.52 per share on the Valuation Day (December 22, 1971). This is equivalent to \$7.38 per share after adjusting for the two-for-one stock split of March 1981 and the two-for-one stock split of February 1990. The one-for-one stock dividends in October 2000 and April 2006 did not affect the Valuation Day amount for our common shares.

Shareholder contacts

For dividend information, change in share registration or address, lost stock certificates, tax forms, estate transfers or dividend reinvestment, please contact: Computershare Trust Company of Canada 100 University Avenue, 8th Floor Toronto, Ontario M5J 2Y1 Canada

Tel: 1-866-586-7635 (Canada and the U.S.) or 514-982-7555 (International) Fax: 1-888-453-0330 (Canada and the U.S.) or 416-263-9394 (International) email: service@computershare.com

For other shareholder inquiries, please contact: Shareholder Relations Royal Bank of Canada 200 Bay Street South Tower Toronto, Ontario M5J 2J5 Canada Tel: 416-955-7806

Financial analysts, portfolio managers, institutional

investors For financial information inquiries, please contact: Investor Relations Royal Bank of Canada 200 Bay Street South Tower Toronto, Ontario M5J 2J5 Canada Tel: 416-955-7802

or visit our website at rbc.com/investorrelations

Direct deposit service

Shareholders in Canada and the U.S. may have their RY common share dividends deposited directly to their bank account by electronic funds transfer. To arrange for this service, please contact our Transfer Agent and Registrar, Computershare Trust Company of Canada.

Eligible dividend designation

For purposes of the Income Tax Act (Canada) and any corresponding provincial and territorial tax legislation, all dividends (and deemed dividends) paid by RBC to Canadian residents on both its common and preferred shares, are designated as "eligible dividends", unless stated otherwise.

Common share repurchases

We are engaged in a Normal Course Issuer Bid (NCIB) which allows us to repurchase for cancellation, up to 20 million common shares during the period spanning from March 1, 2019 to February 29, 2020, when the bid expires, or such earlier date as we may complete the purchases pursuant to our Notice of Intention filed with the Toronto Stock Exchange.

We determine the amount and timing of the purchases under the NCIB, subject to prior consultation with the Office of the Superintendent of Financial Institutions Canada.

A copy of our Notice of Intention to file a NCIB may be obtained, without charge, by contacting our Corporate Secretary at our Toronto mailing address.

2020 Quarterly earnings release dates

First quarter	February 21
Second quarter	May 27
Third quarter	August 26
Fourth quarter	December 2

2020 Annual Meeting

The Annual Meeting of Common Shareholders will be held on Wednesday, April 8, 2020, at 9:30 a.m. (Eastern Time) at the Metro Toronto Convention Centre, North Building, John Bassett Theatre 255 Front Street West, Toronto, Ontario, Canada

Dividend dates for 2020

Subject to approval by the Board of Directors

	Record dates	Payment dates
Common and preferred shares series W, AA, AC, AE, AF, AG, AZ, BB, BD, BF, BH, BI, BJ, BK, BM and BO	January 27 April 23 July 27 October 26	February 24 May 22 August 24 November 24
Preferred shares series C-2 (US\$)	January 28 April 27 July 28 October 27	February 7 May 7 August 7 November 6

Governance

Summaries of the significant ways in which corporate governance practices followed by RBC differ from corporate governance practices required to be followed by U.S. domestic companies under the NYSE listing standards are available on our website at rbc.com/governance.

Information contained in or otherwise accessible through the websites mentioned in this report to shareholders does not form a part of this report. All references to websites are inactive textual references and are for your information only.

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