# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### **FORM 40-F**

[Check one]

□ REGISTRATION STATEMENT PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

OR

△ ANNUAL REPORT PURSUANT TO SECTION 13(a) OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended October 31, 2024

Commission File Number 001-13928

## **ROYAL BANK OF CANADA**

(Exact name of Registrant as specified in its charter)

Canada

(Province or other jurisdiction of incorporation or organization)

6029

(Primary Standard Industrial Classification Code Number)

Not Applicable (I.R.S. Employer Identification Number (if applicable))

200 Bay Street Royal Bank Plaza Toronto, Ontario Canada M5J 2J5

Attention: Karen E. McCarthy Senior Vice President, Deputy General Counsel & Secretary

(416) 569-2431

(Address and telephone number of Registrant's principal executive offices)

Royal Bank of Canada 200 Vesey Street New York, NY 10281 Attention: John Penn

Assistant General Counsel & Managing Director, RBC US Bank & Capital Markets Regulatory Law and General Counsel, RBC Capital Markets, LLC

(212) 858-7116

(Name, address (including zip code) and telephone number (including area code) of agent for service in the United States)

copies of all correspondence should be sent to:

Josie Caldas Royal Bank of Canada 200 Bay Street Toronto, Ontario Canada M5J 2J5 Tel: (416) 974-0446 Benjamin H. Weiner Sullivan & Cromwell LLP 1700 New York Avenue, N.W. Washington, D.C. USA 20006-5215 Tel: (202) 956-7500 Securities registered or to be registered pursuant to Section 12(b) of the Act.

Title of each class	Trading	g Symbol(s)	Name of each exchange on which registered			
Common Shares		RY	New York Stock Exchange			
Securities registered or to be registered pur	rsuant to Section 12(g) of the Act.					
	Not	Applicable				
	(Tit	tle of Class)				
Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.						
	Not.	Applicable				
		tle of Class)	<u> </u>			
For annual reports, indicate by check mark	the information filed with this Fo	orm:				
$\boxtimes$	Annual information form $\  \  \  \  \  \  \  \  \  \  \  \  \ $	Audited annual finance	ial statements			
Indicate the number of outstanding shares report.	of each of the issuer's classes of c	apital or common stock	as of the close of the period covered by the annual			

Common Shares	1,415,080,299
First Preferred Shares*	
Series BD	24,000,000
Series BF	12,000,000
Series BH	6,000,000
Series BI	6,000,000
Series BO	14,000,000
Series BQ	1,750,000**
Series BR	1,250,000**
Series BS	1,000,000**
Series BT	750,000***
Series BU	750,000***
Series BV	1,000,000**
Series BW	600,000***

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days.

Yes ⊠ No □

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files).

Yes ⊠ No □

<sup>\*</sup>The First Preferred Shares Series BD, BF, BH, BI, BO, BQ, BR, BS, BT, BU, BV and BW contain non-viability contingent capital provisions.

\*\*In connection with the issuance of Limited Recourse Capital Notes (LRCN) Series 1, on July 28, 2020, the Registrant issued CAD\$1,750 million of First Preferred Shares Series BQ (Series BQ) at a price of CAD\$1,000 per Series BQ. In connection with the issuance of LRCN Series 2, on November 2, 2020, the Registrant issued CAD\$1,250 million of First Preferred Shares Series BR (Series BR) at a price of CAD\$1,000 per Series BR. In connection with the issuance of LRCN Series 3, on June 8, 2021, the Registrant issued CAD\$1,000 million of First Preferred Shares Series BS (Series BS) at a price of CAD\$1,000 per Series BS. In connection with the issuance of LRCN Series 4, on April 24, 2024, the Registrant issued USD\$1,000 million of First Preferred Shares Series BV (Series BV) at a price of USD\$1,000 per Series BV. The Series BQ, Series BR, Series BS and Series BV were issued to a consolidated trust to be held as trust assets in connection with the LRCN structure.

<sup>\*\*\*</sup>The First Preferred Shares Series BT, BU and BW were respectively issued on November 5, 2021, January 25, 2024 and July 24, 2024 to certain institutional investors.

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 12b-2 of the Exchange Act.	
Emerging growth company	
If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards† provided pursuant to Section 13(a) of the Exchange Act.	
† The term "new or revised financial accounting standard" refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.	
Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.	$\boxtimes$
If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.	$\boxtimes$
Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to § 240.10D-1(b).	

#### CONTROLS AND PROCEDURES

Information about disclosure controls and procedures and internal control over financial reporting can be found under "Controls and procedures" on page 129 of our Management's Discussion and Analysis set forth in Exhibit 2, and under "Management's Report on Internal Control over Financial Reporting" which can be found on page 142 of our Financial Review set forth in Exhibit 2, which sections are incorporated by reference.

#### AUDIT COMMITTEE FINANCIAL EXPERTS

The Registrant's board of directors has determined that it has three audit committee financial experts serving on its audit committee. Cynthia Devine, Frank Vettese and Barry Perry have been determined to be such audit committee financial experts and are independent, as that term is defined by the New York Stock Exchange's listing standards applicable to the Registrant. The U.S. Securities and Exchange Commission (the "SEC") has indicated that the designation of Cynthia Devine, Frank Vettese and Barry Perry as audit committee financial experts does not make any of them an "expert" for any purpose, impose any duties, obligations or liability on Cynthia Devine, Frank Vettese and Barry Perry that are greater than those imposed on members of the audit committee and board of directors who do not carry this designation or affect the duties, obligations or liability of any other member of the audit committee.

#### **CODE OF ETHICS**

The Registrant has adopted a code of ethics (the "Code of Conduct") that applies to all employees, contract workers and members of the board of directors, including its principal executive officer, principal financial officer and principal accounting officer. The full text of the Code of Conduct is set forth in Exhibit 4 and is also available on our website at rbc.com.

#### PRINCIPAL ACCOUNTANT FEES AND SERVICES

Information about principal accountant fees and services and a brief description of our pre-approval policies and procedures can be found under "Audit Committee" beginning on page 24 of our Annual Information Form set forth in Exhibit 1, which section is incorporated by reference. A copy of our pre-approval policies and procedures can be found in Appendix D of our Annual Information Form, which section is incorporated by reference.

#### OFF-BALANCE SHEET ARRANGEMENTS

Information about off-balance sheet arrangements can be found under "Off-balance sheet arrangements" beginning on page 64 of our Management's Discussion and Analysis set forth in Exhibit 2, which section is incorporated by reference.

#### DISCLOSURE OF CONTRACTUAL OBLIGATIONS

Disclosure of contractual obligations can be found under "Principal risks – Liquidity and funding risk" beginning on page 90 of our Management's Discussion and Analysis set forth in Exhibit 2, which section is incorporated by reference.

#### IDENTIFICATION OF THE AUDIT COMMITTEE

The Registrant has a separately-designated standing audit committee. Information about the audit committee can be found under "Audit Committee" beginning on page 24 of our Annual Information Form set forth in Exhibit 1, which section is incorporated by reference.

#### **UNDERTAKING**

The Registrant undertakes to make available, in person or by telephone, representatives to respond to inquiries made by the Commission staff, and to furnish promptly, when requested to do so by the Commission staff, information relating to: the securities in relation to which the obligation to file an annual report on Form 40-F arises; or transactions in said securities.

#### SUMMARY OF SIGNIFICANT DIFFERENCES FROM NYSE CORPORATE GOVERNANCE RULES

A summary of significant ways corporate governance practices followed by the Registrant differ from corporate governance practices required to be followed by U.S. Domestic Companies under the New York Stock Exchange's listing standards (disclosure required by section 303A.11 of the NYSE Listed Company Manual) is available on the Registrant's corporate governance website at rbc.com/governance.

#### DISCLOSURE PURSUANT TO SECTION 13(r) OF THE SECURITIES EXCHANGE ACT OF 1934

In accordance with section 13(r) of the U.S. Securities Exchange Act of 1934, we are required to disclose certain Iran-related activities. We maintain a robust economic sanctions compliance program which monitors compliance with economic sanctions requirements in the jurisdictions in which we operate and we believe we have been in compliance with relevant economic sanctions legislation throughout fiscal 2024.

We currently maintain certain non-U.S. dollar denominated accounts for the Embassy of the Islamic Republic of Iran in Canada (the "Iranian Embassy"). Any funds in these accounts are frozen by Ontario court order in connection with civil litigation, which is being monitored.

In fiscal 2024 these accounts generated CAD \$3,336 in gross revenue and less than CAD \$3,000 in net income.

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

#### **SIGNATURES**

Pursuant to the requirements of the Exchange Act, the Registrant certifies that it meets all of the requirements for filing on Form 40-F and has duly caused this annual report to be signed on its behalf by the undersigned, thereto duly authorized.

#### ROYAL BANK OF CANADA

By: /s/ David McKay

Name: David McKay

Title: President and Chief Executive Officer

Date: December 4, 2024

#### INDEX TO EXHIBITS

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# **ROYAL BANK OF CANADA**

# ANNUAL INFORMATION FORM

**December 3, 2024** 

#### 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 2024 Annual Information Form and in the documents incorporated by reference herein, in other filings with Canadian regulators or the United States (U.S.) Securities and Exchange Commission (SEC), in reports to shareholders, and in other communications. In addition, our representatives may communicate forward-looking statements orally to analysts, investors, the media and others. Forward-looking statements in this document and in the documents incorporated by reference herein include, but are not limited to, statements relating to our financial performance objectives, priorities, vision and strategic goals, the economic, market, and regulatory review and outlook for Canadian, U.S., United Kingdom (U.K.), European and global economies, the regulatory environment in which we operate, the expected impacts of the HSBC Bank Canada (HSBC Canada) transaction, including transaction and integration costs, the Strategic priorities and Outlook sections for each of our business segments as discussed in our 2024 Annual Report for the fiscal year ended October 31, 2024 (2024 Annual Report), the risk environment including our credit risk, market risk, liquidity and funding risk as set out in our 2024 Management's Discussion and Analysis for the fiscal year ended October 31, 2024 (2024 Management's Discussion and Analysis) as well as the effectiveness of our risk monitoring, our climate- and sustainability-related beliefs, targets and goals and related legal and regulatory developments as set out in our 2024 Management's Discussion and Analysis, and include statements made by our President and Chief Executive Officer and other members of management. The forward-looking statements contained in this 2024 Annual Information Form and in the documents incorporated by reference represent the views of management and are 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, strategic goals and priorities and anticipated financial performance, and may not be appropriate for other purposes. Forward-looking statements are typically identified by words such as "believe", "expect", "suggest", "seek", "foresee", "forecast", "schedule", "anticipate", "intend", "estimate", "goal", "commit", "target", "objective", "plan", "outlook", "timeline" and "project" and similar expressions of future or conditional verbs such as "will", "may", "might", "should", "could", "can" or "would" or negative or grammatical variations thereof.

By their very nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties, both general and specific in nature, 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, that our financial performance, environmental & social or other objectives, vision and strategic goals will not be achieved, and that our actual results may differ materially from such predictions, forecasts, projections, expectations or conclusions.

We caution readers not to place undue reliance on our forward-looking 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, but are not limited to: credit, market, liquidity and funding, insurance, operational, compliance (which could lead to us being subject to various legal and regulatory proceedings, the potential outcome of which could include regulatory restrictions, penalties and fines), strategic, reputation, legal and regulatory environment, competitive and systemic risks and other risks discussed in the risk sections of our 2024 Annual Report, including business and economic conditions in the geographic regions in which we operate, Canadian housing and household indebtedness, information technology, cyber and third-party risks, geopolitical uncertainty, environmental and social risk, digital disruption and innovation, privacy and data related risks, regulatory changes, culture and conduct risks, the effects of changes in government fiscal, monetary and other policies, tax risk and transparency, and our ability to anticipate and successfully manage risks arising from all of the foregoing factors. Additional factors that could cause actual results to differ materially from the expectations in such forward-looking statements can be found in the risk sections of our 2024 Annual Report, as may be updated by subsequent quarterly reports.

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, as well as the inherent uncertainty of forward-looking statements. Material economic assumptions underlying the forward-looking statements contained in this 2024 Annual Information Form 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, as such sections may be updated by subsequent quarterly reports. Assumptions about costs related to post-close consolidation and integration activities were considered in the estimation of transaction and integration costs. Any forward-looking statements contained in this document represent the views of management only as of the date hereof, and 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 2024 Management's Discussion and Analysis contained in our 2024 Annual Report, as may be updated by subsequent quarterly reports.

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<sup>\*</sup>Notes 6, 18, 19 and 24 to the 2024 Annual Consolidated Financial Statements for the fiscal year ended October 31, 2024 (2024 Annual Consolidated Financial Statements) for Royal Bank of Canada are incorporated by reference herein.

INFORMATION IS AT OCTOBER 31, 2024, UNLESS OTHERWISE NOTED.

#### CORPORATE STRUCTURE

#### Name, Address and Incorporation<sup>1</sup>

Royal Bank of Canada is a Schedule I bank under the *Bank Act* (Canada), which constitutes its charter. The Bank was created as Merchants Bank in 1864 and was incorporated under the "Act to Incorporate the Merchants' Bank of Halifax" assented to June 22, 1869. The Bank changed its name to The Royal Bank of Canada in 1901 and to Royal Bank of Canada in 1990.

The Bank's corporate headquarters are located at Royal Bank Plaza, 200 Bay Street, Toronto, Ontario, Canada and its head office is located at 1 Place Ville-Marie, Montreal, Quebec, Canada.

#### **Intercorporate Relationships**

Information about intercorporate relationships with principal subsidiaries, including place of incorporation and percentage of securities owned by the Bank, is provided in Appendix A.

#### GENERAL DEVELOPMENT OF THE BUSINESS

#### Three Year History

Our business strategies and actions are guided by our vision, "To be among the world's most trusted and successful financial institutions." Our three strategic goals are:

- In Canada, to be the undisputed leader in financial services;
- In the U.S., to be the preferred partner to institutional, corporate, commercial and high net worth clients and their businesses; and
- In select global financial centres, to be a leading financial services partner valued for our expertise.

In 2022, the Canadian economy showed growth supported by recovery from the COVID-19 pandemic in the travel and hospitality sectors and increased activity in the oil and gas and mining sectors. RBC reported net income of \$15.8 billion, down 2% from 2021. These results reflected lower results in Capital Markets and Insurance, partially offset by higher earnings in Personal & Commercial Banking, Wealth Management and Investor & Treasury Services, as well as lower releases of provisions on performing loans.

In 2023, GDP growth slowed across most advanced economies as headwinds from higher interest rates continued to have a lagged impact. Canadian output in early calendar 2023 was supported by strength in consumer spending and an unexpectedly strong rebound in housing market activity in the spring. The U.S. economy remained resilient with strong consumer spending despite rising interest rates, and employment continued to increase. Bond yields increased substantially as markets demanded higher term premiums and expected central banks to hold policy interest rates higher for longer.

Effective the first quarter of 2023, we simplified our reporting structure by eliminating the Investor & Treasury Services segment and moving our Investor Services business to our Wealth Management segment and our Treasury Services and Transaction Banking businesses to our Capital Markets segment. Effective the fourth quarter of 2023, we moved the Investor Services lending business from our Wealth Management segment to our Capital Markets segment.

When we say "we", "us", "our", or "RBC", we mean Royal Bank of Canada and its subsidiaries, as applicable. References to "the Bank" mean Royal Bank of Canada without its subsidiaries.

In 2023, RBC reported net income of \$14.6 billion², down 8% from the prior year, reflecting lower earnings in Wealth Management, Personal & Commercial Banking and Insurance, which were partially offset by higher results in Capital Markets, and the impact of the Canada recovery dividend and other tax related adjustments in 2023. 2023 also reflected higher provisions on credit losses.

During 2024, RBC made several key executive changes and appointments:

- Maria Douvas (formerly Chief Legal Officer) became Chief Legal & Administrative Officer
- Katherine Gibson (formerly Senior Vice President, Enterprise Finance & Controller) became Chief Financial Officer
- Doug Guzman (formerly Group Head, RBC Wealth Management and Insurance) became Deputy Chair, RBC
- Neil McLaughlin (formerly Group Head, P&CB) became Group Head, RBC Wealth Management
- Erica Nielsen (formerly Executive Vice President, Personal Financing Products) became Group Head, RBC Personal Banking
- Sean Amato-Gauci (formerly Executive Vice President, Business Financial Services) became Group Head, RBC Commercial Banking
- Jennifer Publicover (formerly CEO of RBC Insurance) became Group Head, RBC Insurance

In addition to the executive appointments, effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing moved to the Wealth Management segment.

In 2024, central banks began reducing interest rates from elevated levels as inflation slowed. In Canada, while GDP continued to increase, in aggregate, it has declined on a per-capita basis for six consecutive quarters as of the third calendar quarter of 2024. Unemployment rates remain low across most advanced economies but have increased more substantially in Canada. The U.S. economy remained resilient in calendar 2024 with strong GDP growth, robust consumer spending despite high interest rates and a low unemployment rate. In Europe, unemployment rates remained very low across countries in the Euro area, but GDP growth is slow. In the U.K., GDP growth strengthened over the first half of calendar 2024 but is expected to grow at a slower pace in the second half of the year. Government bond yields have increased after declining into the summer of 2024 as markets await the extent to which central banks will be able to cut interest rates in the year ahead and equity markets have increased to record highs.

RBC reported net income of \$16.2 billion in 2024, up 11% from last year, reflecting growth across each of our business segments. 2024 results also reflect the inclusion of HSBC Canada results, which increased net income by \$453 million, and include higher provisions on impaired loans, largely in Commercial Banking and Personal Banking.

We continue to monitor and prepare for regulatory developments and changes in a manner that seeks to ensure compliance with new requirements, while mitigating adverse business or financial impacts. Such impacts could result from new or amended laws or 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 2024 Annual Report. For a discussion on risk factors resulting from these and other developments which may affect our business and financial results, refer to the risk sections of our 2024 Annual Report. For further details on our framework and activities to manage risks, refer to the risk and Capital management sections of our 2024 Annual Report.

<sup>&</sup>lt;sup>2</sup> This amount has been restated from the amount previously presented as part of the adoption of IFRS 17, effective November 1, 2023. For further details on the impacts of the adoption of IFRS 17 including the description of accounting policies selected, refer to Note 2 of our 2024 Annual Consolidated Financial Statements.

Our acquisitions and dispositions that have influenced the general development of our business over the past three years are summarized in the following table:

Acquisition/Disposition	Key Characteristics
Acquisition of Brewin Dolphin Holdings PLC (2022)	Creates a premier wealth manager in the U.K., Channel Islands and
	Ireland
Disposition of RBC Investor Services® operations (2023)	Divests RBC Investor Services operations in Europe, Jersey and the U.K
	to CACEIS, the asset servicing banking group of Crédit Agricole S.A.
	and Banco Santander, S.A.
Acquisition of HSBC Canada (2024)	Provides the opportunity to enhance existing businesses in line with
	strategic goals and better positions us to be the bank of choice for
	commercial clients with international needs, newcomers to Canada and
	globally connected clients

Additional information can also be found under "Overview and outlook" beginning on page 23 and under "Key corporate events" beginning on page 25 of our 2024 Management's Discussion and Analysis and in Note 6 "Significant acquisition and disposition" beginning on page 194 of our 2024 Annual Consolidated Financial Statements, which sections and note are incorporated by reference herein.

#### DESCRIPTION OF THE BUSINESS

#### **General Summary**

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 98,000+ employees who leverage their imaginations and insights to 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 more than 18 million clients in Canada, the U.S. and 27 other countries.

Our business segments are Personal Banking, Commercial Banking, Wealth Management, Insurance and Capital Markets. Our business segments are supported by Corporate Support.

Additional information about our business and each segment (including segment results) can be found under "Overview and outlook" beginning on page 23 and under "Business segment results" beginning on page 32 of our 2024 Management's Discussion and Analysis, which sections are incorporated by reference herein.

#### Seasonality

Information about seasonality is provided under "Quarterly results and trend analysis" beginning on page 62 of our 2024 Management's Discussion and Analysis, which section is incorporated by reference herein.

#### Competition

Personal Banking competes with other Schedule 1 banks, independent trust companies, foreign banks, credit unions, caises populaires and auto financing companies, as well as emerging entrants to the financial services industry, in Canada; other banks, emerging digital banks, trust companies and investment management companies serving retail and corporate clients, as well as public institutions, in the Caribbean; and other Canadian banking institutions that have U.S. operations, in the U.S.

Commercial Banking competes with other Schedule 1 banks, foreign banks, credit unions, auto financing companies, as well as emerging entrants to the financial services industry, in Canada.

Our Canadian Wealth Management business competes with domestic banks and trust companies, investment counselling firms, bank-owned full-service brokerages and boutique brokerages, mutual fund companies and global private banks. In Canada, bank-owned wealth managers continue to be the major players for the HNW/UHNW segment. Our U.S. Wealth Management business (including City National Bank (CNB)) operates in a fragmented and highly competitive industry and competitors include other broker-dealers, commercial banks and other financial institutions that service high net worth and ultra-high net worth individuals, entrepreneurs and their businesses. Our Global Asset Management business faces competition in Canada from banks, insurance companies and asset management organizations; in the U.S. from independent asset management firms, as well as those that are part of national and international banks and insurance companies; and internationally from asset managers that are owned by international banks, as well as national and regional asset managers in the geographies where we serve clients. Competitors to our International Wealth Management business include global wealth managers, traditional private banks and domestic wealth managers. Competitors to our Investor Services business include domestic and international custodians with Canadian entities and operations.

In our Canadian Insurance business, many of our competitors specialize in either life and health, wealth or in property and casualty products. In our International Insurance business we compete in the global reinsurance market which is competitive as there are many participants. Market share is largely held by a small number of reinsurers, with RBC Insurance® continuing to selectively pursue niche opportunities.

Our Capital Markets business is a market leader in Canada with a strategic presence in all lines of capital markets businesses. In North America, competitors include large global investment banks. Outside North America, we have a targeted strategic presence in the U.K. & Europe, Australia, Asia and other markets aligned with our global expertise and compete with global and regional investment banks.

Additional information about our competition can be found under "Business segment results" beginning on page 32 of our 2024 Management's Discussion and Analysis, which section is incorporated by reference herein.

#### Government Regulation and Supervision - Canada

The Bank is a "Schedule I" bank under the *Bank Act* (Canada) (*Bank Act*), and, as such, is a federally regulated financial institution. It has Canadian insurance and trust and loan company subsidiaries that are also federally regulated financial institutions (FRFI Subsidiaries and, together with the Bank, FRFIs) governed by (respectively) the *Insurance Companies Act* (Canada) (*Insurance Companies Act*) and the *Trust and Loan Companies Act* (Canada) (*Trust and Loan Companies Act*). The activities of the FRFI Subsidiaries are also regulated under provincial and territorial laws in respect of their activities in the provinces and territories. In certain provinces, some of the Bank's capital markets and wealth management activities are regulated under provincial securities laws (which are administered and enforced by securities regulatory authorities).

The Office of the Superintendent of Financial Institutions (OSFI), an independent agency of the Government of Canada, is responsible for administering the *Bank Act, Trust and Loan Companies Act* and *Insurance Companies Act* and reports to the Minister of Finance (the Minister) for the supervision of the FRFIs. OSFI is required, at least once a year, to examine the affairs and business of each FRFI for the purpose of determining whether the FRFI is complying with the provisions of its governing statute and it is in sound financial condition, and report to the Minister. The FRFIs are also required to make periodic filings and reports to OSFI.

The FRFIs are also subject to regulation under the *Financial Consumer Agency of Canada Act (FCAC Act)*.<sup>3</sup> The Financial Consumer Agency of Canada (Agency), among other things, enforces consumer-related provisions of the federal statutes which govern these financial institutions. The Commissioner of the Agency must report to the Minister on all matters connected with the administration of the *FCAC Act* and consumer provisions of other federal statutes, including the *Bank Act*, *Trust and Loan Companies Act* and *Insurance Companies Act*. The FRFIs are also subject to provincial and territorial laws of general application.

The Bank and the following subsidiaries are member institutions of the Canada Deposit Insurance Corporation (CDIC): Royal Trust Corporation of Canada, The Royal Trust Company, Royal Bank Mortgage Corporation and RBC Investor Services Trust. CDIC insures certain deposits held at its member institutions. Under the *Bank Act*, the Bank is prohibited from engaging in or carrying on any business other than the business of banking, except as permitted under that statute. The business of banking includes providing any financial services; acting as a financial agent; providing investment counselling services and portfolio management services; issuing payment, credit or charge cards; and operating payment, credit or charge card plans.

The Bank has broad powers to invest in securities of other corporations and entities but is limited in making "substantial investments" in or in controlling certain types of entities. A "substantial investment" will arise through direct or indirect beneficial ownership of voting shares carrying more than 10 per cent of the voting rights attached to all outstanding voting shares of a corporation, shares representing more than 25 per cent of the shareholders' equity in a corporation or interests representing more than 25 per cent of the ownership interests in any unincorporated entity. The Bank can make controlling, and in certain circumstances, non-controlling substantial investments in certain entities in accordance with the investment provisions under the *Bank Act*. Some substantial investments may be made only with the prior approval of the Minister or the Superintendent of Financial Institutions (the Superintendent).

Each FRFI is also required to maintain, in relation to its operations, adequate capital and liquidity, and OSFI may direct financial institutions to increase capital and/or to provide additional liquidity.

The *Proceeds of Crime (Money Laundering) and Terrorist Financing Act* (the PCMLTA) is applicable to all of our businesses in Canada. The PCMLTA implements specific measures designed to detect and deter money laundering and the financing of terrorist activities. Further, the PCMLTA sets out obligations related to deterring and detecting money laundering and terrorist financing from a global perspective, in order to minimize the possibility that RBC could become a party to these activities. RBC has enterprise-wide anti-money laundering policies and procedures which assist in reducing the risk of facilitating money laundering and terrorist financing activities.

#### **Bail-in Regime**

Canada has a bank recapitalization regime (the Bail-in Regime) for domestic systemically important banks, including the Bank. Under the *Canada Deposit Insurance Corporation Act*, in circumstances where the Bank has ceased, or is about to cease, to be viable, the Governor in Council may, upon recommendation of the Minister that they are of the opinion that it is in the public interest to do so, by order:

- vest in CDIC the shares and subordinated debt of the Bank specified in the order (a vesting order);
- appoint CDIC as receiver in respect of the Bank (a receivership order);
- if a receivership order has been made, direct the Minister to incorporate a federal institution designated in the order as a bridge institution wholly-owned by CDIC and specifying the date and time as of which the Bank's deposit liabilities are assumed (a bridge bank order); or

 $<sup>^3</sup>$  For the Bank's trust subsidiaries, only their retail deposit taking activities are subject to regulation under the FCAC Act.

• if a vesting order or receivership order has been made, direct CDIC to carry out a conversion, by converting or causing the Bank to convert, in whole or in part – by means of a transaction or series of transactions and in one or more steps – the shares and liabilities of the Bank that are subject to the Bail-in Regime into common shares of the Bank or any of its affiliates (a conversion order).

Upon the making of a conversion order, prescribed shares and liabilities under the Bail-in Regime that are subject to that conversion order will, to the extent converted, be converted into common shares of the Bank or any of its affiliates, as determined by CDIC. Subject to certain exceptions, senior debt issued on or after September 23, 2018, with an initial or amended term to maturity (including explicit or embedded options) greater than 400 days, that is unsecured or partially secured and that has been assigned a CUSIP or ISIN or similar identification number is subject to a bail-in conversion. For a description of Canadian bank resolution powers and the consequent risk factors attaching to certain liabilities of the Bank reference is made to rbc.com/investor-relations/ assets-custom/pdf/bail-in-overview.pdf.

#### Broker-Dealer/Advisory/Investment Fund Management Subsidiaries

The activities of certain of the Bank's subsidiaries, such as RBC Dominion Securities Inc., RBC Direct Investing Inc., Royal Mutual Funds Inc., RBC Global Asset Management Inc., Phillips, Hager & North Investment Funds Ltd., RBC Phillips, Hager & North Investment Counsel Inc. and RBC InvestEase Inc., which act as securities dealers (including investment dealers, mutual fund dealers and exempt market dealers), advisers (portfolio managers) and/or investment fund managers are regulated in Canada under provincial and territorial securities/commodity futures/derivatives laws (which are administered and enforced by the applicable securities regulatory authorities) and, for investment dealers and mutual fund dealers, by the rules of the Canadian Investment Regulatory Organization (CIRO). The Bank's subsidiaries that are CIRO dealer members are also members of the Canadian Investor Protection Fund, which protects, within specified limits, customers' accounts against certain losses of customer property held by CIRO dealer members that become insolvent.

#### Insurance

The activities of the Bank's regulated Canadian insurance subsidiaries, RBC Life Insurance Company (RBC Life) and RBC Insurance Company of Canada (RICC), are federally governed by the *Insurance Companies Act* and by provincial legislation in each province and territory in which they carry on business. In addition, the *Bank Act* sets out a framework for insurance activities that the Bank may or may not carry out. The Bank may administer, promote and provide advice in relation to certain authorized types of insurance and may conduct any aspect of the business of insurance, other than the underwriting of insurance, outside of Canada and in respect of risks outside Canada. However, in Canada, the Bank may not act as agent for any person in the placing of insurance. The Bank can promote an insurance company, agent or broker or non-authorized types of insurance (e.g. life and home and automobile insurance) to certain prescribed groups where the promotion takes place outside of physical bank branches. Additionally, and subject to applicable restrictions under the *Bank Act*, RBC Wealth Management Financial Services Inc., a wholly owned indirect subsidiary of the Bank, is licensed under applicable provincial and territorial laws to sell insurance products, including individual and group life and living benefits insurance along with money products such as annuities and segregated funds, for both related and independent insurance companies in Canada.

RBC Life is a member of Assuris, which is a not-for-profit organization that protects Canadian life insurance policyholders against loss of benefits due to the financial failure of a member company. RICC is a member of the Property and Casualty Insurance Compensation Corporation, which is the corporation protecting Canadian property and casualty policyholders against loss of benefits due to the financial failure of a member company.

RBC Insurance Agency Ltd. and RBC Commercial Insurance Agency Inc., wholly owned indirect Bank subsidiaries, are licensed insurance agencies that distribute insurance products underwritten by non-RBC entities. These products include home and auto insurance and commercial insurance that are underwritten by an unaffiliated insurance company.

#### **Government Regulation and Supervision – United States**

#### Banking

In the U.S., the Bank is characterized as a foreign banking organization (FBO). Generally, the operations of an FBO and its U.S. subsidiaries and offices are subject to the same comprehensive regulatory regime that governs the operations of U.S. domestic banking organizations. The Bank's U.S. businesses are subject to supervision and oversight by various U.S. authorities, including federal and state regulators, as well as self-regulatory organizations.

Under the *International Banking Act* of 1978, as amended (IBA) and the *Bank Holding Company Act* of 1956, as amended (BHCA), all of the Bank's U.S. banking operations are subject to supervision and regulation by the Board of Governors of the Federal Reserve System (Federal Reserve). Under the IBA, the BHCA, and related regulations of the Federal Reserve, the Bank generally may not open a branch, agency or representative office in the U.S., nor acquire five per cent or more of the voting stock of any U.S. bank or BHC, without notice to or prior approval of the Federal Reserve. The Federal Reserve is the U.S. "umbrella regulator" responsible for supervision and oversight of the Bank's consolidated U.S. activities. The Federal Reserve consults with and obtains information from other prudential and functional U.S. regulators that exercise supervisory authority over the Bank's various U.S. operations. Reports of financial condition and other information relevant to the Bank's U.S. businesses are regularly filed with the Federal Reserve.

In 2000, the Bank became a U.S. FHC, as authorized by the Federal Reserve. Pursuant to the *Gramm-Leach-Bliley Act* of 1999, as amended, an FHC may engage in, or acquire companies engaged in, a broader range of financial and related activities than are permitted to banking organizations that do not maintain FHC status. To qualify as an FHC, the Bank, as an FBO and BHC, must meet certain capital requirements and must be deemed to be "well managed" for U.S. bank regulatory purposes. In addition, any U.S. depository institution subsidiaries of the FBO or BHC must also meet certain capital requirements and be deemed to be "well managed" and must have at least a "satisfactory" rating under the *Community Reinvestment Act* of 1977, as amended. An FBO must meet several conditions in order to maintain "well managed" status for U.S. bank regulatory purposes: (i) the FBO must have received a composite regulatory rating of "satisfactory" or better for its U.S. branch, agency and commercial lending company operations following its last regulatory examination, (ii) the FBO's home country supervisor must consent to it expanding its activities in the U.S. to include activities permissible for a financial holding company (FHC), (iii) the FBO's management must meet standards company (BHC) must be deemed to be "well managed", which is based on regulatory examination ratings.

The Federal Reserve, however, has the authority to limit an FHC's ability to conduct activities that would otherwise be permissible if the FHC or any of its U.S. depositary institution subsidiaries does not satisfactorily meet certain capital requirements or is not deemed to be "well managed". In such cases, the Federal Reserve may impose corrective capital and/or managerial requirements, as well as additional limitations or conditions. If the deficiencies persist, the FHC may be required to divest its U.S. depository institution subsidiaries or to cease engaging in activities other than the business of banking and certain closely related activities. If any insured depository institution subsidiary of an FHC fails to maintain at least a "satisfactory" rating under the *Community Reinvestment Act* of 1977, as amended, the FHC would be subject to restrictions on certain new activities and acquisitions.

On July 21, 2010, the *Dodd-Frank Wall Street Reform and Consumer Protection Act* (*Dodd-Frank Act*) was enacted. The statute effected significant changes to U.S. financial regulations and required rulemaking by the U.S. financial regulators, with material cross-border implications. Section 165 of the *Dodd-Frank Act* required the Federal Reserve to establish *Enhanced Prudential Standards for Foreign Banking Organizations* (Regulation YY). Amongst other regulatory requirements, Regulation YY required the Bank to establish an intermediate holding company (IHC) organized under U.S. law. The IHC is required to hold, directly or indirectly, the Bank's entire ownership interest in its U.S. insured depository institution subsidiaries and other U.S. subsidiaries (excluding so called section 2(h)(2) companies and branch subsidiaries acquired by debt previously contracted). The Bank has established a two-tier BHC structure in the U.S., consisting of RBC US Group Holdings LLC (RIHC), its top-tier BHC, as the Bank's IHC and the parent of RBC USA Holdco Corporation, the parent of most of the Bank's U.S. subsidiaries. Both RIHC and RBC USA Holdco Corporation are BHCs and FHCs. The Bank fulfills its Regulation YY regulatory requirements through RIHC, which include capital adequacy, capital planning and stress testing, risk management and governance, liquidity and liquidity stress testing, financial regulatory reporting and other requirements that are similar to, or the same as, those applicable to U.S. domestic BHCs that are similarly categorized under the rules that tailor enhanced prudential standards for FBOs and large U.S. banking organizations. In addition, the Bank is registered as a "Swap Dealer" with the U.S. Commodity Futures Trading Commission (CFTC) and the National Futures Association (NFA) and as a "Security-Based Swap Dealer" with the SEC.

The USA PATRIOT Act of 2001, as amended, which amended the Bank Secrecy Act (BSA) of 1970, as amended (the Act), requires U.S. banks and certain other financial institutions with U.S. operations to maintain appropriate policies, procedures and controls reasonably designed to comply with the Act, including, as applicable, anti-money laundering compliance programs, suspicious activity and currency transaction reporting and other obligations including due diligence on customers to prevent, detect and report individuals and entities involved in money laundering and the financing of terrorism. In January 2021, the Anti-Money Laundering Act of 2020 (AMLA), which also amended the Act, was enacted. The AMLA was intended to comprehensively reform and modernize U.S. anti-money laundering laws. In September 2022, the U.S. Department of Treasury's Financial Crimes Enforcement Network (FinCEN) issued a final rule implementing the beneficial ownership information (BOI) reporting requirements under the Corporate Transparency Act, which was part of the AMLA. The BOI rule, which went into effect January 1, 2024, implemented sweeping beneficial owner disclosure requirements applicable to U.S. companies and foreign companies doing business in the U.S., subject to certain exceptions. The BOI rule is the first of three related rulemakings. On December 21, 2023, FinCEN issued a final rule regarding authorized access to the BOI system (access rule) which provides the circumstances when the BOI may be disclosed to federal agencies, regulators and financial institutions and how that BOI must be protected. To date, Financial Institutions have not been provided access to BOI information. On August 28, 2024, the Financial Crimes Enforcement Network (FinCEN) issued a final rule that will impose new anti-money laundering and countering terrorism financing (AML/CFT) program requirements on registered investment advisers and exempt reporting advisers (collectively, Covered IAs) by, among other things, including Covered IAs within the definition of "financial institution" under the BSA. The new AML/CFT rule takes effect on January 1, 2026. In addition, FinCEN proposed a Rule to Strengthen and Modernize Financial Institution Programs Designed to Fight Money Laundering and Terrorist Financing. Its purpose is to strengthen and modernize financial institutions' anti-money laundering and countering the financing of terrorism (AML/CFT) programs. A final remaining rulemaking is expected to address required revisions to FinCEN's Customer Due Diligence rule. Several other provisions of the AMLA require additional rulemakings, reports and other measures.

The Bank maintains two branches in New York that are licensed and supervised as full federal branches with fiduciary licenses by the Office of the Comptroller of the Currency (OCC), the U.S. supervisor of national banks. In general, the Bank's branches may exercise the same rights and privileges, and are subject to the same restrictions, as would apply to a U.S. national bank at the same location(s). The Bank's branches may accept wholesale deposits, but may not take U.S. domestic retail deposits outside of an available exemption. Deposits in the Bank's branches are not insured by the Federal Deposit Insurance Corporation (FDIC). The Bank also maintains a limited federal branch in Jersey City, New Jersey which may exercise the same rights and privileges as the Bank's New York federal branches except that it generally can only take deposits from non-U.S. sources.

The OCC examines and supervises the Bank's U.S. branch office/agency's activities and operations. In addition, the Bank's U.S. branches are required to maintain a capital equivalency deposit in their state(s) of residence, which deposits are pledged to the OCC. Furthermore, the Bank's U.S. branch offices are subject to supervisory guidance based on the examiners' assessment of risk management, operational controls, compliance and asset quality.

The Bank also maintains a state-licensed agency in Texas and state-licensed representative offices in California, Delaware and Texas. In general, the activities conducted at the Bank's agency include a broad range of banking powers, including lending and maintaining credit balances, but agencies are limited in their ability to accept deposits from citizens or residents of the U.S. Further limitations may be placed on such agencies' activities based on state laws. The activities conducted at the representative offices are limited to representational and administrative functions; such representative offices do not have authority to make credit decisions and may not solicit (depending on state laws) or contract for any deposit or deposit-like liability. The representative offices are examined and assessed by both the Federal Reserve and state regulators and are required to adhere to any applicable state regulations.

Banking activities are also conducted at CNB and RBC Bank (Georgia), National Association (RBC Bank), both of which are national banking associations chartered by the OCC. CNB and RBC Bank are members of the Federal Reserve. The OCC serves as the primary federal prudential regulator of CNB and RBC Bank. As U.S. banks, CNB and RBC Bank are allowed to take retail deposits, and they offer retail and commercial banking services, including deposit and credit services, such as consumer lending products (including credit card and mortgage loans), and business and commercial loans. CNB and RBC Bank are subject to capital requirements, dividend restrictions, limitations on investments and subsidiaries, limitations on transactions with affiliates (including the Bank and its branches), deposit reserve requirements and other requirements administered by the OCC and the Federal Reserve. Deposits at CNB and RBC Bank are FDIC-insured to the extent applicable. CNB and RBC Bank are also required to comply with applicable consumer protection laws and regulations such as those promulgated by the Consumer Financial Protection Bureau, an independent agency created under the *Dodd-Frank Act*. As an OCC chartered U.S. national bank, CNB also has fiduciary powers and offers trust and investment management services.

CNB also conducts trust and investment management activities through CNB's wholly-owned subsidiary, RBC Trust Company (Delaware) Limited (RBC Trust). RBC Trust is a Delaware trust company chartered and supervised by the Delaware State Bank Commissioner and, as a BHC subsidiary, is subject to oversight by the Federal Reserve. RBC Trust is subject to dividend restrictions, limitations on investments and other applicable state banking law requirements.

#### **Broker-Dealer Activities and Broker-Dealer Subsidiaries**

The securities brokerage, trading and investment banking activities are conducted by and through the following U.S.-registered broker-dealer subsidiaries:

- RBC Capital Markets, LLC (RBC CM LLC),
- RBC CMA LTD.,
- City National Securities, Inc., and
- CNR Securities, LLC.

The SEC, state securities regulators, the Financial Industry Regulatory Authority and other self-regulatory organizations regulate these broker-dealer subsidiaries. Certain activities of RBC CM LLC and RBC CMA LTD. are also subject to regulation by the CFTC and the NFA. Pursuant to the *Dodd-Frank Act*, RBC CM LLC is registered as a "Swaps Firm" with the NFA. Certain activities of RBC CM LLC are subject to regulation by the Municipal Securities Rulemaking Board.

#### **Investment Management and Other Fiduciary Activities**

The Bank's New York branches have fiduciary powers, under which these branches conduct investment management and custody activities for certain customers. In addition, other affiliates are involved in the business of investment management. In many cases, these activities require that the affiliates be registered with the SEC as investment advisers under the U.S. *Investment Advisers Act of 1940*, as amended (*Advisers Act*). The *Advisers Act* and related rules regulate the registration and activities of investment advisers. Although the regulatory regime for investment advisers is similar in some ways to that for broker-dealers, the standard of conduct is higher due to the advisers' status as fiduciaries.

The following entities are the Bank's subsidiaries that are registered as "investment advisers" with the SEC:

- RBC CM LLC,
- RBC Global Asset Management (U.S.) Inc. (GAM),
- RBC Global Asset Management (UK) Limited (GAM UK),
- RBC Private Counsel (USA) Inc.,
- City National Rochdale, LLC (CNR), and
- City National Securities, Inc.

GAM and CNR also each sponsor and act as the adviser to U.S. mutual funds. The U.S. *Investment Company Act of 1940*, as amended, and related rules regulate the registration and operation of mutual funds and certain activities of the funds' advisers and other affiliates and certain of the funds' other service providers. Certain activities of GAM UK and GAM are also subject to regulation by the CFTC and the NFA.

#### **ERISA** and the Internal Revenue Code

The U.S. *Employee Retirement Income Security Act of 1974*, as amended (ERISA), and its related rules regulate, among other things, the activities of the financial services industry with respect to pension plan clients. Similarly, the U.S. *Internal Revenue Code of 1986, as amended,* and the regulations implemented thereunder impose requirements with respect to such clients and also individual retirement accounts (IRAs). Brokers, dealers and investment advisers to pension plans and IRAs must conduct their business in compliance with both ERISA and applicable tax regulations.

#### **Risk Factors**

A discussion of risks affecting us and our businesses appears under the headings "Risk management", "Principal risks" and "Overview of other risks" from pages 66-113 of our 2024 Management's Discussion and Analysis, which discussions are incorporated by reference herein.

#### **Environmental and Social Policies**

The Bank's Environmental, Social and Governance (ESG) reporting outlines how we approach ESG ambitions and other ESG matters. Information about our ESG reporting is available on the Bank's website at rbc.com/esgreporting. Additional information about our environmental and social risk policies can be found under "Overview of other risks – Environmental and social risk" beginning on page 111 of our 2024 Management's Discussion and Analysis, which section is incorporated by reference herein.

#### DESCRIPTION OF CAPITAL STRUCTURE

#### **General Description**

The Bank's authorized share capital consists of an unlimited number of common shares without nominal or par value; an unlimited number of first preferred shares without nominal or par value, provided that the first preferred shares outstanding at any time shall have been issued for a maximum aggregate consideration of \$30 billion; and an unlimited number of second preferred shares, without nominal or par value, which may be issued for a maximum aggregation consideration of \$5 billion.

The Bank may also issue an unlimited amount of Limited Resource Capital Notes (LRCNs), which are compound instruments with both equity and liability features. The following summary of share capital and LRCNs is qualified in its entirety by the Bank's by-laws and the actual terms and conditions of such shares and LRCNs.

#### **Common Shares**

The holders of the Bank's common shares are entitled to vote at all meetings of shareholders, except meetings at which only holders of a specified class, other than common shares, or series of shares are entitled to vote. The holders of common shares are entitled to receive dividends as and when declared by the board of directors, subject to the preference of the preferred shares. After payment to the holders of the preferred shares of the amount or amounts to which they may be entitled, and after payment of all outstanding debts, the holders of the common shares will be entitled to receive any remaining property upon liquidation, dissolution or winding-up.

#### **Preferred Shares**

First preferred shares may be issued, from time to time, in one or more series with such rights, privileges, restrictions and conditions as the board of directors may determine, subject to the *Bank Act* and to the Bank's by-laws. The first preferred shares are entitled to preference over any second preferred shares (discussed below) and common shares and over any other shares ranking junior to the first preferred shares with respect to the payment of dividends and in the distribution of property in the event of liquidation, dissolution or winding-up.

As at December 3, 2024, Non-Cumulative First Preferred Shares Series BD, BF, BH, BI, BO, BQ, BR, BS, BT, BU, BV, BW and BX are outstanding. The Non-Cumulative First Preferred Shares Series BD, BF, BH, BI and BO are listed on the Toronto Stock Exchange. The Non-Cumulative First Preferred Shares Series BQ, BR, BS, BT, BU, BV, BW and BX are not listed on an exchange. On November 7, 2023, we redeemed all of our issued and outstanding Non-Cumulative First Preferred Shares Series C-2 (the Series C-2 Preferred Shares). The Bank's Depositary Shares representing interests in the Series C-2 Preferred Shares were listed on the New York Stock Exchange. On May 24, 2024, we redeemed all of our issued and outstanding Non-Cumulative First Preferred Shares Series AZ. On August 24, 2024, we redeemed all of our issued and outstanding Non-Cumulative First Preferred Shares Series BB.

Effective January 1, 2013, in accordance with capital adequacy requirements adopted by OSFI, non-common capital instruments issued after January 1, 2013, including first preferred shares, must include terms providing for the full and permanent conversion of such securities into common shares upon the occurrence of certain trigger events relating to financial viability (the Non-Viability Contingent Capital requirements) in order to qualify as regulatory capital. All outstanding capital instruments that do not meet the Non-Viability Contingent Capital requirements are considered non-qualifying capital instruments and have been phased out. The Non-Cumulative First Preferred Shares Series BD, BF, BH, BI, BO, BQ, BR, BS, BT, BU, BV, BW and BX contain non-viability contingent capital provisions necessary to qualify as Tier 1 regulatory capital under Basel III and are therefore convertible into common shares upon the occurrence of a non-viability contingent capital trigger event.

We are prohibited by the *Bank Act* from declaring or paying any dividends on our preferred or common shares when we are, or would be placed as a result of the declaration, in contravention of the capital adequacy and liquidity regulations or any regulatory directives issued under the *Bank Act*. We may not pay dividends on our common shares or redeem, purchase or otherwise retire common shares or preferred shares at any time without the approval of the holders of outstanding first preferred shares unless all dividends to which first preferred shareholders are then entitled have been declared and paid or set apart for payment.

The Non-Cumulative First Preferred Shares Series BT, BU and BW were respectively issued on November 5, 2021, January 25, 2024 and July 24, 2024 to certain institutional investors.

The Non-Cumulative First Preferred Shares Series BQ, BR, BS, BV and BX (the LRCN Preferred Shares) were respectively issued on July 28, 2020, November 2, 2020, June 8, 2021, April 24, 2024 and November 1, 2024 in connection with the Bank's concurrent issuances of LRCNs. The LRCN Preferred Shares are held by Computershare Trust Company of Canada as trustee (the Trustee) for Leo LRCN Limited Recourse Trust™ (the Limited Recourse Trust). In certain circumstances, including non-payment of interest on, principal of or redemption price for the LRCNs when due, or the occurrence of an event of default or a non-viability contingent capital trigger event, the Trustee of the Limited Recourse Trust will deliver to holders of LRCNs their proportionate share of the Limited Recourse Trust's assets, which will consist of the LRCN Preferred Shares except in limited circumstances, in full satisfaction of the Bank's obligations under the LRCNs.

For so long as the LRCN Preferred Shares are held by the Trustee on behalf of the Limited Recourse Trust, such shares will not be entitled to receive dividends

On November 2, 2015, in connection with the merger of CNB with and into RBC USA Holdco Corporation, the Bank issued Non-Cumulative First Preferred Shares Series C-1 and C-2 in exchange for two series of outstanding CNB preferred stock. Neither series remains outstanding as of December 3, 2024.

Second preferred shares may be issued, from time to time, in one or more series with such rights, privileges, restrictions and conditions as the board of directors may determine, subject to the *Bank Act* and to the Bank's by-laws. There are no second preferred shares currently outstanding. Second preferred shares would rank junior to the first preferred shares. Second preferred shares would be entitled to preference over the common shares and over any other shares ranking junior to the second preferred shares with respect to the payment of dividends and in the distribution of property in the event of our liquidation, dissolution or winding-up.

Holders of the first and second preferred shares are not entitled to any voting rights as a class except as provided under the *Bank Act* or the Bank's by-laws. Under the *Bank Act*, the Bank may not create any other class of shares ranking equal with or superior to a particular class of preferred shares, increase the authorized number of, or amend the rights, privileges, restrictions or conditions attaching to such class of preferred shares, without the approval of the holders of that class of preferred shares.

Any approval to be given by the holders of the first and second preferred shares may be given in writing by the holders of not less than all of the outstanding preferred shares of each class or by a resolution carried by the affirmative vote of not less than 662/3 per cent of the votes cast at a meeting of holders of each class of preferred shares at which a quorum is represented. A quorum at any meeting of holders of each class of preferred shares is 51 per cent of the shares entitled to vote at such meeting, except that at an adjourned meeting there is no quorum requirement.

#### **Limited Recourse Capital Notes**

LRCNs are the Bank's direct unsecured obligations constituting subordinated indebtedness for the purpose of the *Bank Act* and are intended to qualify as our additional Tier 1 capital within the meaning of the regulatory capital adequacy requirements to which we are subject. The LRCNs are not deposits insured under the Canada *Deposit Insurance Corporation Act* or any other deposit insurance regime designed to ensure the payment of all or a portion of a deposit upon the insolvency of a deposit taking institution.

In the event of a non-payment by the Bank of the principal amount of, interest on or redemption price for the LRCNs when due, the sole remedy of holders of LRCNs shall be the delivery of the LRCN Preferred Shares held by the Trustee for the Limited Recourse Trust.

If the Bank becomes insolvent or is wound-up, the LRCNs will rank (i) subordinate in right of payment to the prior payment in full of all outstanding deposit liabilities of the Bank including certain subordinated indebtedness (within the meaning of the *Bank Act*); and (ii) in right of payment equally with and not prior to the Bank's indebtedness which by its terms ranks equally in right of payment with, or is subordinate to, the LRCNs (other than the Bank's indebtedness which by its terms ranks subordinate to the LRCNs) and will be subordinate in right of payment to the claims of our depositors and other unsubordinated creditors, provided that in any such case and in case of the Bank's non-payment of the principal amount of, interest on or redemption price for the LRCNs when due, the sole remedy of the holders of the LRCNs shall be the delivery of the LRCN Preferred Shares held by the Trustee for the Limited Recourse Trust.

Holders of LRCNs are not entitled to any voting rights, other than in certain limited circumstances.

Additional information about the Bank's share capital can be found under "Capital management" beginning on page 114 of our 2024 Management's Discussion and Analysis and in Note 19 "Equity" beginning on page 226 of our 2024 Annual Consolidated Financial Statements, which section and note are incorporated by reference herein.

#### **Prior Sales**

From time to time, the Bank issues principal at risk notes, securities for which the amount payable at maturity is determined by reference to the price, value or level of an underlying interest such as a stock index, an exchange traded fund or a notional portfolio of equities or other securities. In addition, the Bank periodically issues subordinated debt, preferred shares and other equity instruments which are not listed or quoted on a marketplace.

For information about the Bank's issuances of subordinated debentures, Limited Recourse Capital Notes and other equity instruments since October 31, 2023, see the "Capital management" section beginning on page 114 of our 2024 Management's Discussion and Analysis, Note 18 "Subordinated debentures" beginning on page 225 and Note 19 "Equity" beginning on page 226 of our 2024 Annual Consolidated Financial Statements, which section and notes are incorporated by reference herein.

#### **Constraints**

The Bank Act contains restrictions on the issue, transfer, acquisition, beneficial ownership and voting of shares of a chartered bank. The following is a summary of several key restrictions.

No person may be a major shareholder of a bank having equity of \$12 billion or more (which includes the Bank). A person is a major shareholder if:

- (a) the aggregate of the shares of any class of voting shares of the Bank beneficially owned by that person, by entities controlled by that person and by any person associated or acting jointly or in concert with that person is more than 20 per cent of the outstanding shares of that class of voting shares, or
- (b) the aggregate of shares of any class of non-voting shares of the Bank beneficially owned by that person, by entities controlled by that person and by any person associated or acting jointly or in concert with that person is more than 30 per cent of the outstanding share of that class of non-voting shares.

Additionally, no person may have a significant interest in any class of shares of a bank (including the Bank) unless the person first receives the approval of the Minister. For purposes of the *Bank Act*, a person has a significant interest in a class of shares of a bank where the aggregate of any shares of the class beneficially owned by that person, by entities controlled by that person and by any person associated or acting jointly or in concert with that person exceeds 10 per cent of all of the outstanding shares of that class of shares of such bank.

The *Bank Act* also prohibits a bank from purchasing or redeeming any of its shares or paying any dividends if there are reasonable grounds for believing the bank is, or the payment would cause the bank to be, in contravention of the *Bank Act* requirement to maintain, in relation to its operations, adequate capital and appropriate forms of liquidity and to comply with any regulations or directions of the Superintendent in relation thereto. Under the *Bank Act*, the Bank cannot redeem or purchase any shares for cancellation unless the prior consent of the Superintendent has been obtained.

Subject to certain exceptions, the *Bank Act* also prohibits the registration of a transfer or issue of any shares of a Canadian bank to any government or government agency of Canada or any province of Canada, or to any government of any foreign country, or any political subdivision, or agency of any foreign country.

#### Ratings

Our ability to access unsecured funding markets and to engage in certain collateralized business activities on a cost-effective basis is primarily dependent upon maintaining competitive credit ratings. Credit ratings and outlooks provided by rating agencies reflect their views and methodologies. Our credit ratings are largely determined by the rating agencies' assessment of the quality of our earnings, the adequacy of our capital and the effectiveness of our risk management programs. 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. There can be no assurance that our credit ratings and rating outlooks will not be lowered or that rating agencies will not issue adverse commentaries about us, potentially resulting in adverse consequences for our funding capacity or access to capital markets.

A lowering of our credit ratings may also affect our ability, and the cost, to enter into normal course derivative or hedging transactions and may require us to post additional collateral under certain contracts. However, we estimate, based on periodic reviews of ratings triggers embedded in our existing businesses and of our funding capacity sensitivity, that a minor downgrade would not materially influence our liability composition, funding access, collateral usage and associated costs.

As at December 3, 2024, RBC had the following ratings from the rating agencies listed below:

	RATING CLASS*	RATING	RANK**
Moody's Investors Service, Inc. ‡	Legacy Senior Long-term Debt <sup>1</sup>	Aa1	2 of 21
	Senior Long-term Debt <sup>2</sup>	A1	5 of 21
	Short-term Debt	P-1	1 of 4
	Subordinated Debt	A3	7 of 21
	NVCC Subordinated Debt	A3 (hyb)	7 of 21
	NVCC Preferred Shares	Baa2 (hyb)	9 of 21
	NVCC Limited Recourse Capital Notes	Baa2 (hyb)	9 of 21
	Outlook – Stable		
S&P Global Ratings †	Legacy Senior Long-term Debt <sup>1</sup>	AA-	4 of 22
	Senior Long-term Debt <sup>2</sup>	A	6 of 22
	Short-term Debt	A-1+	1 of 7
	Subordinated Debt	A	6 of 22
	NVCC Subordinated Debt	A-	7 of 22
	NVCC Preferred Shares	BBB	9 of 22
	NVCC Limited Recourse Capital Notes	BBB	9 of 22
	Outlook – Stable		
Fitch Ratings ‡	Legacy Senior Long-term Debt <sup>1</sup>	AA	3 of 23
	Senior Long-term Debt <sup>2</sup>	AA-	4 of 23
	Short-term Debt	F1+	1 of 8
	Subordinated Debt	A	6 of 23
	NVCC Subordinated Debt	A	6 of 23
	NVCC Preferred Shares	BBB+	8 of 23
	NVCC Limited Recourse Capital Notes	BBB+	8 of 23
	Outlook – Stable		
Morningstar DBRS ‡	Legacy Senior Long-term Debt <sup>1</sup>	AA (high)	2 of 23
	Senior Long-term Debt <sup>2</sup>	AA	3 of 23
	Short-term Debt	R-1 (high)	1 of 10
	Subordinated Debt	AA (low)	4 of 23
	NVCC Subordinated Debt	A	6 of 23
	NVCC Preferred Shares	Pfd-2 (high)	4 of 16
	NVCC Limited Recourse Capital Notes	A (low)	7 of 23
	Outlook – Stable		

Our rating classes may differ from the rating category nomenclatures used by the rating agencies.

\* Relative rank of each rating within the organization's overall classification system.

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.

<sup>&</sup>lt;sup>2</sup> Includes senior long-term debt issued on or after September 23, 2018, which is subject to conversion under the Bail-in Regime.

A definition of the categories of each rating as at December 3, 2024 has been obtained from the respective rating agency's website and is outlined in Appendix B, and a more detailed explanation may be obtained from the applicable rating agency.

On June 11, 2024, Fitch Ratings affirmed our ratings with a stable outlook.

On May 10, 2024, Morningstar DBRS affirmed our ratings with a stable outlook.

On June 25, 2024, S&P Global Ratings affirmed our ratings with a stable outlook.

On October 8, 2024, Moody's Investors Service, Inc. affirmed our ratings with a stable outlook.

Credit ratings, including stability or provisional ratings (collectively, 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 may not reflect the potential impact of all risks on the value of securities. In addition, real or anticipated changes in the rating assigned to a security will generally affect the market value of that security. 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. Each Rating listed in the table above should be evaluated independently of any other Rating applicable to our debt and preferred shares. As is customary, RBC pays rating agencies to assign Ratings for the parent company as well as our subsidiaries, and for certain other services.

Additional information about Ratings is provided under "Principal risks – Liquidity and funding risk – Credit ratings" on page 97 of our 2024 Management's Discussion and Analysis, which section is incorporated by reference herein.

#### MARKET FOR SECURITIES

#### **Trading Price and Volume**

The Bank's common shares are listed on the Toronto Stock Exchange (TSX) in Canada and the New York Stock Exchange (NYSE) in the U.S. The Bank's Non-Cumulative First Preferred Shares Series BD, BF, BH, BI and BO are currently listed on the TSX, and the Bank's Non-Cumulative First Preferred Shares Series AZ and BB were listed on the TSX prior to their respective redemptions.

The following table sets out the price range and trading volumes of the common shares on the TSX and the NYSE for the periods indicated. Prices are based on the reported amounts from Stockwatch.

	Common Shares (TSX)			Com	nmon Shares (NYS	SE)
Month	High (\$)	Low (\$)	Volume (Millions)	High (US\$)	Low (US\$)	Volume
November 2023	122.99	109.89	86.76	90.54	79.14	22,302,968
December 2023	134.69	121.45	77.45	102.07	89.85	20,768,993
January 2024	135.63	130.81	154.84	101.79	96.69	30,466,090
February 2024	133.94	127.60	104.32	99.06	93.97	21,912,260
March 2024	137.21	131.28	55.55	101.50	96.65	21,494,435
April 2024	140.77	131.57	127.89	103.88	95.84	27,222,608
May 2024	149.22	132.88	99.84	109.47	96.52	20,697,504
June 2024	149.24	140.53	65.36	109.51	102.44	13,866,138
July 2024	155.22	145.32	148.65	112.67	105.93	26,544,418
August 2024	163.06	145.58	80.51	121.12	102.89	23,258,612
September 2024	169.22	162.44	56.40	125.11	119.15	13,223,634
October 2024	175.04	163.81	147.39	126.96	120.40	29,932,726

The following tables provide the price range and trading volumes of the first preferred shares on the TSX for the periods indicated. Prices are based on the reported amounts from Stockwatch.

		Series AZ4			Series BB5			Series BD	
Month	High (\$)	Low (\$)	Volume	High (\$)	Low (\$)	Volume	High (\$)	Low (\$)	Volume
November 2023	19.94	18.00	379,660	19.55	17.52	230,372	19.45	17.15	301,552
December 2023	19.90	18.76	398,562	19.45	17.82	266,053	19.48	18.50	393,224
January 2024	21.09	19.25	600,703	20.49	18.23	303,340	20.55	19.02	226,982
February 2024	21.50	20.36	700,035	20.63	19.70	382,079	20.89	19.64	502,609
March 2024	22.64	21.50	793,614	22.50	20.79	759,176	22.68	20.85	483,861
April 2024	25.14	22.51	6,385,254	24.50	22.31	1,619,961	23.97	22.11	1,183,856
May 2024	25.00	24.91	7,146,298	24.74	24.10	1,209,066	24.05	23.01	1,330,794
June 2024				25.10	24.25	5,721,982	24.22	22.79	443,295
July 2024				25.14	24.89	560,568	24.36	23.75	1,117,595
August 2024				24.99	24.92	3,305,636	24.30	23.79	255,331
September 2024							24.29	23.91	265,607
October 2024							24.74	23.83	446,634

<sup>&</sup>lt;sup>4</sup> On May 24, 2024, we redeemed all of our issued and outstanding Non-Cumulative First Preferred Shares Series AZ (Series AZ). <sup>5</sup> On August 24, 2024, we redeemed all of our issued and outstanding Non-Cumulative First Preferred Shares Series BB (Series BB).

		Series BF			Series BH			Series BI	
Month	High (\$)	Low (\$)	Volume	High (\$)	Low (\$)	Volume	High (\$)	Low (\$)	Volume
November 2023	18.63	16.42	163,118	21.75	19.70	48,642	21.99	19.60	48,560
December 2023	19.01	17.80	226,277	22.16	21.13	70,844	21.99	20.61	226,960
January 2024	19.94	18.17	195,588	22.98	21.58	44,308	23.17	21.75	46,494
February 2024	20.21	18.93	454,628	22.40	21.83	41,106	22.43	21.74	41,963
March 2024	22.55	20.13	199,032	22.90	22.06	30,649	23.86	22.14	29,779
April 2024	23.30	22.01	829,530	22.92	21.91	44,630	22.90	22.00	54,505
May 2024	23.50	22.60	294,807	23.45	22.70	32,317	23.48	22.74	30,718
June 2024	23.48	21.85	405,897	24.01	22.25	407,517	24.10	22.14	48,232
July 2024	24.07	23.26	508,334	24.82	23.75	886,210	24.60	23.80	86,585
August 2024	23.99	23.43	181,642	24.40	23.75	72,303	24.45	23.38	47,609
September 2024	23.85	23.53	108,850	24.38	24.00	45,541	24.56	24.00	42,802
October 2024	24.26	23.45	250,328	24.74	23.88	84,890	24.65	23.79	63,319

	Series BO					
Month	High (\$)	Low (\$)	Volume			
November 2023	22.64	20.45	238,043			
December 2023	23.30	21.90	206,195			
January 2024	22.96	22.00	258,086			
February 2024	22.81	22.31	412,217			
March 2024	23.50	22.57	179,607			
April 2024	23.85	23.22	199,977			
May 2024	25.20	23.66	600,584			
June 2024	25.00	23.37	207,139			
July 2024	25.25	24.73	298,891			
August 2024	25.45	24.93	295,449			
September 2024	25.50	25.21	298,993			
October 2024	25.72	25.21	246,422			

The following table provides the price range and trading volumes of the Depositary Shares on the NYSE for the period indicated. Prices are based on the reported amounts from Stockwatch.

	Series C-26					
Month	High (US\$)	Low (US\$)	Volume			
November 2023	25.10	25.01	536			

#### **DIVIDENDS**

The Bank has had an uninterrupted history of paying dividends on its common shares and on each of its outstanding series of first preferred shares. Information about the Bank's dividends paid or payable per share on the common shares and each outstanding series of first preferred shares in each of the two most recently completed years appears under the heading "Selected capital management activity" in the "Capital management" section beginning on page 121 of our 2024 Management's Discussion and Analysis, which section is incorporated by reference herein. Information about restrictions on the payment of dividends appears under the heading "Restrictions on the payment of dividends" in Note 19 "Equity" beginning on page 226 of our 2024 Annual Consolidated Financial Statements, which note is incorporated by reference herein.

The declaration amount and payment of future dividends will be subject to the discretion of the Bank's board of directors, and will be dependent upon the Bank's results of operations, financial condition, cash requirements and future regulatory restrictions on the payment of dividends and other factors deemed relevant by the board of directors.

Information about our dividends and our dividend payout ratio (common share dividends as a percentage of net income less preferred share dividends) is provided under the heading "Selected capital management activity" in the "Capital management" section beginning on page 121 of our 2024 Management's Discussion and Analysis and in Note 19 "Equity" beginning on page 226 of our 2024 Annual Consolidated Financial Statements, which section and note are incorporated by reference herein.

#### SECURITIES SUBJECT TO CONTRACTUAL RESTRICTION ON TRANSFER

In connection with each issuance of LRCNs, the Bank also concurrently issues first preferred shares. These LRCN Preferred Shares are held in the Limited Recourse Trust. Pursuant to the Amended and Restated Declaration of Trust for the Limited Recourse Trust and the share provisions for the LRCN Preferred Shares, the Trustee of the Limited Recourse Trust will only deliver the LRCN Preferred Shares to holders of LRCNs under certain prescribed circumstances further described herein under Description of Capital Structure – Preferred Shares" and "Description of Capital Structure – Limited Recourse Capital Notes".

<sup>6</sup> On November 7, 2023, we redeemed all of our issued and outstanding First Preferred Shares Series C-2 (Series C-2). The Bank's Depositary Shares representing interests in the Series C-2 were listed on the NYSE prior to the redemption.

#### Securities Subject to Contractual Restriction on Transfer as at December 3, 2024

Designation of	Number of Securities that are Subject to a	Percentage of Class
Class	Contractual Restriction on Transfer	
First Preferred Shares	1,750,000 Non-Cumulative First Preferred Shares Series BQ	8.56%
	1,250,000 Non-Cumulative First Preferred Shares Series BR	
	1,000,000 Non-Cumulative First Preferred Shares Series BS	
	1,000,000 Non-Cumulative First Preferred Shares Series BV	
	1,000,000 Non-Cumulative First Preferred Shares Series BX	

### DIRECTORS AND EXECUTIVE OFFICERS

#### Directors

The following are the Bank's directors as at December 3, 2024:

Name and Year Elected	Province/State and Country of Residence	Occupation
Mirko Bibic (2022)	Ontario, CAN	President and Chief Executive Officer, BCE Inc. and Bell Canada
Andrew A. Chisholm (2016)	Ontario, CAN	Corporate Director
Jacynthe Côté (2014)	Quebec, CAN	Chair of the Board, Royal Bank of Canada
Toos N. Daruvala (2015)	New York, U.S.	Corporate Director
Cynthia Devine (2020)	Ontario, CAN	Corporate Director
Roberta L. Jamieson (2021)	Ontario, CAN	Corporate Director
David I. McKay (2014)	Ontario, CAN	President and Chief Executive Officer, Royal Bank of Canada
Amanda Norton (2024)	North Carolina, U.S.	Corporate Director
Barry Perry (2023)	Newfoundland and Labrador, CAN	Corporate Director
Maryann Turcke (2020)	Ontario, CAN	Corporate Director

Name and Year Elected	Province/State and Country of Residence	Occupation
Thierry Vandal (2015)	New York, U.S.	President, Axium Infrastructure US Inc.
Frank Vettese (2019)	Ontario, CAN	Co-Founder, SummitNorth Advisory Corp.
Jeffery Yabuki (2017)	Nevada, U.S.	Chairman & Chief Executive Officer, InvestCloud Inc. Chairman, Sportradar AG and Chairman, Motive Partners GP, LLC

Directors are elected annually and hold office until the next annual meeting of shareholders. Since November 1, 2019, the directors have held the principal occupations described above, except for the following:

Mr. Mirko Bibic served in a variety of leadership positions since joining BCE Inc. in 2004, including Chief Operating Officer from 2018 through 2020.

Mr. Toos N. Daruvala was Co-Chief Executive Officer, MIO Partners, Inc. from November 2016 through March 2021.

Ms. Cynthia Devine retired from her position as President and Chief Executive Officer of Maple Leaf Sports & Entertainment (MLSE) in April 2024 and was advisor to the board of MLSE until June 2024. She was Chief Financial Officer of MLSE from 2017 through 2022.

Ms. Roberta L. Jamieson was President and Chief Executive Officer of Indspire (a Canadian Indigenous charity that invests in the education of First Nations, Inuit and Métis people) from November 2004 through December 2020.

Ms. Amanda Norton was Chief Risk Officer at Wells Fargo from 2018 to 2022.

Mr. Barry Perry was President and Chief Executive Officer of Fortis Inc. from 2015 through 2020.

*Ms. Maryann Turcke* was Senior Advisor, Brookfield Infrastructure Partners L.P. from September 2020 through September 2022, Senior Advisor, National Football League from September 2020 through 2021 and Chief Operating Officer, National Football League from April 2017 through September 2020.

Mr. Jeffery Yabuki was Executive Chairman, Fisery, Inc. from June through December 2020 and Chief Executive Officer, Fisery, Inc. from 2005 through June 2020. He became Chairman and Chief Executive Officer of InvestCloud, Inc. in January 2024.

#### Committees of the Board

Audit Committee: F. Vettese (Chair), T.N. Daruvala, C. Devine, B. Perry and M. Turcke.

Risk Committee: A.A. Chisholm (Chair), M. Bibic, R.L. Jamieson, A. Norton, T. Vandal and J. Yabuki.

Governance Committee: M. Turcke (Chair), M. Bibic, A.A. Chisholm, C. Devine and R.L. Jamieson.

Human Resources Committee: T. Vandal (Chair), T.N. Daruvala, A. Norton, B. Perry, F. Vettese and J. Yabuki.

#### **Executive Officers**

The following are the Bank's executive officers as at December 3, 2024:

Name	Province/State and Country of Residence	Title
Sean Amato-Gauci	Ontario, CAN	Group Head, RBC Commercial Banking
Kelly Bradley	Ontario, CAN	Chief Human Resources Officer
Maria Douvas	New York, U.S.	Chief Legal and Administrative Officer
Katherine Gibson	Ontario, CAN	Chief Financial Officer
Douglas Guzman	Ontario, CAN	Deputy Chair, RBC
Graeme Hepworth	Ontario, CAN	Chief Risk Officer
David I. McKay	Ontario, CAN	President & Chief Executive Officer
Neil McLaughlin	Ontario, CAN	Group Head, RBC Wealth Management
Derek Neldner	Ontario, CAN	CEO and Group Head, RBC Capital Markets
Erica Nielsen	Ontario, CAN	Group Head, RBC Personal Banking
Jennifer Publicover	Ontario, CAN	Group Head, RBC Insurance
Bruce Ross	Ontario, CAN	Group Head, Technology and Operations

Since November 1, 2019, the executive officers have held the positions described below:

*Mr. Sean Amato-Gauci* was appointed to Group Executive in his role as Group Head, RBC Commercial Banking effective September 1, 2024. Prior to his current role, Mr. Amato-Gauci was Executive Vice President & Head, Business Financial Services since November 2022 and Executive Vice President of Cards, Payments & Banking since August 2017.

*Ms. Kelly Bradley* was appointed to Group Executive in her role as Chief Human Resources Officer effective June 1, 2022. Prior to her current role, Ms. Bradley was Senior Vice President, Talent Strategy and Solutions since June 2020 and Senior Vice President Leadership Development and Reimagine HR since July 2017.

Ms. Maria Douvas was appointed Chief Legal and Administrative Officer effective March 20, 2024. Prior to her current role, Ms. Douvas was appointed to Group Executive in her role as Chief Legal Officer effective September 2021. She was Executive Vice President and General Counsel since February 2021 and Senior Vice President, U.S. General Counsel and Global Head of Litigation since September 2018.

*Ms. Katherine Gibson* was appointed to Group Executive in her role as Chief Financial Officer effective September 1, 2024. Prior to her current role, Ms. Gibson was Interim Chief Financial Officer since April 2024 and Senior Vice President, Enterprise Finance & Controller since September 2016.

*Mr. Douglas Guzman* was appointed Deputy Chair, RBC effective September 1, 2024. Prior to his current role, Mr. Guzman was appointed to Group Executive in his role as Group Head, Wealth Management & Insurance effective November 1, 2015 and assumed leadership of Investor & Treasury Services effective November 1, 2019 (effective November 1, 2022, RBC eliminated the Investor & Treasury Services segment by moving Treasury Services to Capital Markets and Investor Services to Wealth Management, which Mr. Guzman continued to lead).

Mr. Graeme Hepworth was appointed to Group Executive in his role as Chief Risk Officer effective April 9, 2018.

Mr. David I. McKay was appointed President effective in February 2014 and Chief Executive Officer effective in August 2014.

*Mr. Neil McLaughlin* was appointed Group Head, RBC Wealth Management effective September 1, 2024. Prior to his current role, Mr. McLaughlin was appointed to Group Executive in his role as Group Head, Personal & Commercial Banking effective May 2017 (also assuming responsibility for RBC Ventures in September 2021), and he was Executive Vice President, Business Financial Services, Personal & Commercial Banking since October 2014.

Mr. Derek Neldner was appointed to Group Executive in his role as Group Head and CEO, Capital Markets effective November 1, 2019.

Ms. Erica Nielsen was appointed to Group Executive in her role as Group Head, RBC Personal Banking effective September 1, 2024. Prior to her current role, Ms. Nielsen was Executive Vice President, Personal Financing Products since September 2023, Executive Vice President, Personal Banking and Investments since November 2022, Senior Vice President, Personal Savings and Investments since October 2021, Senior Vice President, Everyday Banking and Client Growth since January 2020 and Vice President, Banking and Payments since May 2017.

*Ms. Jennifer Publicover* was appointed to Group Executive in her role as Group Head, RBC Insurance effective September 1, 2024. Prior to her current role, Ms. Publicover was Executive Vice President and Chief Executive Officer, RBC Insurance since January 2023 and Senior Vice President, Wealth Management Products and Strategy since November 2019.

Mr. Bruce Ross was appointed to Group Executive in his role as Group Head, Technology and Operations effective in January 2014.

#### **Ownership of Securities**

To our knowledge, as at October 31, 2024, the directors and executive officers, as a group, beneficially own or exercise control or direction over less than one per cent (1%) of our common and preferred shares. None of our directors or executive officers holds shares of our subsidiaries except where required for qualification as a director of a subsidiary.

#### Cease Trade Orders, Bankruptcies, Penalties or Sanctions

To the best of our knowledge, no director or executive officer,

- (a) is, as at December 3, 2024 or has been, within the 10 years before, a director, chief executive officer or chief financial officer of any company (including our company), that while that person was acting in that capacity,
  - (i) was the subject of a cease trade or similar order or an order that denied the relevant company access to any exemption under Canadian securities legislation, 7 for a period of more than 30 consecutive days, or
  - (ii) was subject to an event that resulted, after the director or executive officer ceased to be a director, chief executive officer or chief financial officer, in the company being the subject of a cease trade or similar order or an order that denied the relevant company access to any exemption under Canadian securities legislation, for a period of more than 30 consecutive days, or

<sup>&</sup>lt;sup>7</sup> National Instrument 14-101 restricts the meaning of "securities legislation" to Canadian provincial and territorial legislation and "securities regulatory authority" to Canadian provincial and territorial securities regulatory authorities.

- (b) is, as at December 3, 2024 or has been, within the 10 years before, a director or executive officer of any company (including our company), that while that person was acting in that capacity or within a year of that person ceasing to act in that capacity, became bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency or was subject to or instituted any proceedings, arrangement or compromise with creditors or had a receiver, receiver manager or trustee appointed to hold its assets, or
- (c) has, within the 10 years before December 3, 2024, become bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency, or become subject to or instituted any proceedings, arrangement or compromise with creditors, or had a receiver, receiver manager or trustee appointed to hold the assets of the director or executive officer,

Except for the following:

Ms. Turcke is a director of Diamond Sports Group, LLC, which filed for Chapter 11 protection in the U.S. Bankruptcy Court for the Southern District of Texas on March 14, 2023.

To the best of our knowledge, none of our directors or executive officers have been subject to (a) any penalties or sanctions imposed by a court relating to Canadian securities legislation<sup>8</sup> or by a Canadian securities regulatory authority<sup>8</sup> or has entered into a settlement agreement with a Canadian securities regulatory authority,<sup>8</sup> or (b) any other penalties or sanctions imposed by a court or regulatory body that would likely be considered important to a reasonable investor in making an investment decision.

#### **Conflicts of Interest**

To the best of our knowledge, no director or executive officer has an existing or potential material conflict of interest with us or any of our subsidiaries.

#### LEGAL PROCEEDINGS AND REGULATORY ACTIONS

In the ordinary course of our business, we are routinely involved in or parties to various ongoing, pending and threatened legal actions and proceedings.

A description of certain legal proceedings to which we are a party appears in Note 24 "Legal and regulatory matters" beginning on page 236 of our 2024 Annual Consolidated Financial Statements, which note is incorporated by reference herein.

Since October 31, 2023, (a) there have been no penalties or sanctions imposed against us by a court relating to Canadian securities legislation<sup>8</sup> or by a Canadian securities regulatory authority<sup>8</sup> which are individually or in the aggregate material to the Bank, (b) there have been no other penalties or sanctions imposed by a court or regulatory body against us that would likely be considered important to a reasonable investor in making an investment decision, and (c) we have not entered into any settlement agreements with a court relating to Canadian securities legislation<sup>8</sup> or with a Canadian securities regulatory authority<sup>8</sup>.

<sup>8</sup> National Instrument 14-101 restricts the meaning of "securities legislation" to Canadian provincial and territorial legislation and "securities regulatory authority" to Canadian provincial and territorial securities regulatory authorities.

#### INTEREST OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

To the best of our knowledge, there were no directors or executive officers or any associate or affiliate of a director or executive officer with a material interest in any transaction within the three most recently completed financial years or during the current financial year that has materially affected us or is reasonably expected to materially affect us.

#### TRANSFER AGENT AND REGISTRAR

For Canada, Computershare Trust Company of Canada is the transfer agent and registrar for our common shares and our preferred shares. Their principal offices are in the cities of: Montreal, QC, Toronto, ON, Calgary, AB and Vancouver, BC. In the U.S., Computershare Trust Company, N.A. is the co-transfer agent located in Canton, Massachusetts and Jersey City, New Jersey. In the U.K., Computershare Services PLC is the co-transfer agent located in Bristol, England.

#### **EXPERTS**

PricewaterhouseCoopers LLP (PwC), Chartered Professional Accountants, Licensed Public Accountants, audited our Annual Consolidated Financial Statements, which comprise the consolidated balance sheets as of October 31, 2024 and October 31, 2023 and the related consolidated statements of income, comprehensive income, changes in equity, and cash flows for the years then ended, including the related notes and the effectiveness of our internal control over financial reporting as of October 31, 2024. PwC has advised that they are independent with respect to the Bank within the meaning of the Rules of Professional Conduct of the Chartered Professional Accountants of Ontario and the rules and regulations adopted by the SEC and the Public Company Accounting Oversight Board (United States).

#### AUDIT COMMITTEE

#### **Audit Committee Mandate**

The mandate of the Audit Committee is attached as Appendix C to this Annual Information Form.

#### **Composition of Audit Committee**

The Audit Committee consists of Frank Vettese (Chair), Toos N. Daruvala, Cynthia Devine, Barry Perry and Maryann Turcke. The board has determined that each member of the Audit Committee is independent under our Director Independence Policy, which incorporates the independence standards under applicable Canadian and U.S. laws and regulations and none receives, directly or indirectly, any compensation from us other than ordinary course compensation for service as a member of the board of directors and its committees or of a board of directors of one or more of our subsidiaries. All members of the Audit Committee are financially literate within the meaning of National Instrument 52-110 – Audit Committees and of the Corporate Governance Standards of the NYSE. In considering the criteria for determining financial literacy, the board of directors looks at the ability of a director to read and understand a balance sheet, an income statement and a cash flow statement of a financial institution. The board has determined that each of Frank Vettese, Cynthia Devine and Barry Perry qualifies as an "audit committee financial expert" as defined by the SEC.

#### Relevant Education and Experience of Audit Committee Members

In addition to each member's general business experience, the education and experience of each Audit Committee member that is relevant to the performance of their responsibilities as an Audit Committee member is as follows:

Frank Vettese, B.B.A., FCA, earned his Bachelor of Business Administration from the Schulich School of Business and is a Chartered Accountant and a fellow of the Canadian Institute of Chartered Accountants. Mr. Vettese was Managing Partner and Chief Executive of Deloitte Canada from 2012 to June 2019. Mr. Vettese has been a member of the Audit Committee since July 2019.

Toos N. Daruvala earned his MBA from the University of Michigan and his Bachelor of Technology degree in electrical engineering from the Indian Institute of Technology. Mr. Daruvala was Co-Chief Executive Officer of MIO Partners, Inc. from 2015 to 2021, and held various senior positions at McKinsey & Company from 1983 to 2015, including Senior Partner, Risk Practice and Director, Banking and Securities Practice. He concluded his 33 year career at McKinsey & Company by serving as Senior Advisor and Director Emeritus in 2016. Mr. Daruvala has been a member of the Audit Committee since April 2022.

Cynthia Devine, FCPA, FCA, HBA, earned her Honors Business Administration degree from Western University. Ms. Devine became a Fellow of the Institute of Chartered Accountants of Ontario in 2011. Ms. Devine is the interim President and Chief Executive Officer of Maple Leaf Sports & Entertainment. She was the Chief Financial Officer from 2017 to 2022. From 2003 to 2014, Ms. Devine served as Chief Financial Officer of Tim Hortons Inc., and from 2015 to 2017 served as Executive Vice President, Chief Financial Officer and Corporate Secretary of RioCan Real Estate Investment Trust. Ms. Devine serves as a director for Empire Company Limited/Sobeys Inc. Ms. Devine has been a member of the Audit Committee since July 2020.

Barry Perry earned his Bachelor of Commerce degree (Honours) from Memorial University of Newfoundland and is a Chartered Professional Accountant. Mr. Perry was President and Chief Executive Officer of Fortis Inc. from 2015 to 2020 and served as Executive Vice President of Finance and Chief Financial Officer from 2004 to 2014. Mr. Perry is a member of the boards of Capital Power Corporation and Canada Pension Plan Investment Board. Mr. Perry has been a member of the Audit Committee since August 2023.

Maryann Turcke, B.S., M.S., M.B.A, earned her Bachelor of Science in Civil Engineering degree from Queen's University, her Master of Science in Engineering degree from the University of Toronto and her Master of Business Administration from Queen's University. Ms. Turcke was Chief Operating Officer of the National Football League from 2018 to 2020, President, NFL Network, Digital Media, IT and Films from 2017 to 2018 and President of Bell Media from 2014 to 2017. Ms. Turcke is Senior Advisor of Brookfield Infrastructure Partners. Ms. Turcke has been a member of the Audit Committee since January 2020.

#### **Pre-Approval Policies and Procedures**

The Audit Committee has adopted a policy that requires pre-approval by the Audit Committee of audit services, audit-related services and other services within permissible categories of non-audit services. The policy prohibits us from engaging the Bank's independent auditor for "prohibited" categories of non-audit services. A copy of our Pre-Approval Policies and Procedures can be found in Appendix D.

#### **Independent Registered Public Accounting Firm Fees**

Following a tender process, PwC was appointed our independent auditor by the Board of Directors on January 29, 2016, which appointment was approved by the Bank's shareholders at the Annual and Special Meeting of Common Shareholders held on April 6, 2016. Fees relating to the years ended October 31, 2024 and October 31, 2023 to PwC and its affiliates, including the nature of each category of fees, are detailed below.

	Year ended October 31, 2024 (\$Millions)			Year ended October 31, 2023 (\$Millions)		
	Bank and Subsidiaries	Mutual Funds <sup>(1)</sup>	Total	Bank and Subsidiaries	Mutual Funds <sup>(1)</sup>	Total
Audit fees	50.6	2.8	53.4	43.3	2.5	45.8
Audit-related fees	9.9	-	9.9	10.4	-	10.4
Tax fees	0.1	0.3	0.4	0.1	0.3	0.4
All other fees	0.9	0.7	1.6	0.8	0.6	1.4
Total fees	61.5	3.8	65.3	54.6	3.4	58.0

<sup>(1)</sup> The Mutual Funds category includes fees paid for professional services provided by PwC for certain mutual funds managed by subsidiaries of the Bank. In addition to other administrative costs, the subsidiaries are responsible for the auditors' fees for professional services rendered in connection with the annual audit, statutory and regulatory filings and other services for the Mutual Funds in return for a fixed administration fee.

#### **Audit Fees**

Audit fees were paid for professional services rendered by the Bank's independent auditor for the integrated audit of the 2024 Annual Consolidated Financial Statements of the Bank, including its audit of the effectiveness of our internal control over financial reporting, and any financial statement audits of our subsidiaries. In addition, audit fees were paid for services that generally only the Bank's independent auditor reasonably can provide, which includes services provided in connection with statutory and regulatory filings, including those related to prospectuses and other offering documents.

#### **Audit-Related Fees**

Audit-related fees were paid for assurance and related services that are reasonably related to the performance of the audit or review of our 2024 Annual Consolidated Financial Statements and are not reported under the audit fees item above. These services consisted of:

- employee benefit plan audits;
- due diligence related to mergers and acquisitions;
- consultations and audits in connection with acquisitions, including evaluating the accounting treatment for proposed transactions;
- attest services not required by statute or regulation;
- reporting on the effectiveness of internal controls as required by contract or for business reasons;
- the audits of various trusts and limited partnerships; and
- consultations regarding financial and reporting standards.

#### Tax Fees

Tax fees were paid for tax compliance services including preparation of tax returns for certain mutual funds managed by subsidiaries of the Bank and a subscription for services to provide specific tax data and information to complete routine tax schedules and calculations for clients.

#### All Other Fees

These services consist of translation of financial statements and related continuous disclosure and other public documents containing financial information for us and certain of our subsidiaries, regulatory compliance services, as well as accounting and other research software subscriptions and publications.

# ADDITIONAL INFORMATION

Additional information, including directors' and officers' remuneration and indebtedness, principal holders of our securities and securities authorized for issuance under equity compensation plans, where applicable, is contained in the Bank's Management Proxy Circular for the most recent annual meeting of shareholders. Additional financial information is provided in our 2024 Annual Consolidated Financial Statements and 2024 Management's Discussion and Analysis, which are included in our 2024 Annual Report.

Copies of this Annual Information Form, our 2024 Annual Report and Management Proxy Circular in respect of the most recent annual meeting of shareholders may be obtained from Investor Relations at 200 Bay Street, South Tower, Toronto, Ontario, M5J 2J5.

This Annual Information Form, the 2024 Annual Consolidated Financial Statements and 2024 Management's Discussion and Analysis, as well as additional information about us may be found on our website at rbc.com, on SEDAR+, the Canadian Securities Administrators' website, at sedarplus.com, and on the EDGAR section of the SEC's website at sec.gov.

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

# **TRADEMARKS**

® /™ Trademarks of Royal Bank of Canada. ‡ All other trademarks are the property of their respective owner(s).

# APPENDIX A – PRINCIPAL SUBSIDIARIES

(Millions of Canadian dollars)		As at Oc	tober 31, 2024
Principal subsidiaries (1)	Principal office address (2)		ring value of voting hares owned by the Bank (3)
Royal Bank Holding Inc.	Toronto, Ontario, Canada	\$	93,533
RBC Direct Investing Inc.	Toronto, Ontario, Canada		
RBC Insurance Holdings Inc.	Mississauga, Ontario, Canada		
RBC Life Insurance Company	Mississauga, Ontario, Canada		
Investment Holdings (Cayman) Limited	George Town, Grand Cayman, Cayman Islands		
RBC (Cayman) Funding Ltd.	George Town, Grand Cayman, Cayman Islands		
Capital Funding Alberta Limited	Calgary, Alberta, Canada		
RBC Global Asset Management Inc.	Toronto, Ontario, Canada		
RBC Investor Services Trust	Toronto, Ontario, Canada		
RBC (Barbados) Trading Bank Corporation	St. James, Barbados		
RBC US Group Holdings LLC (2)	Toronto, Ontario, Canada		34,826
RBC USA Holdco Corporation	New York, New York, U.S.		
RBC Capital Markets, LLC	New York, New York, U.S.		
City National Bank	Los Angeles, California, U.S.		
RBC Dominion Securities Limited	Toronto, Ontario, Canada		17,243
RBC Dominion Securities Inc.	Toronto, Ontario, Canada		
Royal Bank Mortgage Corporation	Toronto, Ontario, Canada		6,932
RBC Europe Limited	London, England		3,170
The Royal Trust Company	Montreal, Quebec, Canada		1,587
Royal Trust Corporation of Canada	Toronto, Ontario, Canada		681

<sup>(1)</sup> The Bank directly or indirectly controls each subsidiary.
(2) Each subsidiary is incorporated or organized under the laws of the state, province or country in which the principal office is situated, except for RBC US Group Holdings LLC and RBC USA Holdco Corporation which are incorporated under the laws of the State of Delaware, U.S., RBC Capital Markets, LLC, which is organized under the laws of the State of Minnesota, U.S., and City National Bank which is a national bank, chartered under the laws of the United States of America.
(3) The carrying value of voting shares is stated as the Bank's equity in such investments.

# APPENDIX B – EXPLANATION OF RATINGS AND OUTLOOK

Institution	Rating	Outlook
Moody's Investors Service, Inc.	<ul> <li>Obligations rated 'Aa' are judged to be of high quality and are subject to very low credit risk.</li> <li>Obligations rated 'A' are judged to be upper medium-grade and are subject to low credit risk.</li> <li>Obligations rated 'Baa' are judged to be medium-grade and subject to moderate credit risk and as such may possess certain speculative characteristics.</li> <li>Moody's Investors Service, Inc. appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa through Caa. The modifier 1 indicates that the obligation ranks in the higher end of its generic rating category; the modifier 2 indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rating category.</li> <li>Additionally, a "(hyb)" indicator is appended to all ratings of hybrid securities issued by banks, insurers, finance companies, and securities firms.</li> <li>Ratings of 'P-1' reflect a superior ability to repay short-term obligations.</li> </ul>	A Moody's Investors Service, Inc. rating outlook is an opinion regarding the likely rating direction over the medium term.
S&P Global Ratings	<ul> <li>An obligation rated 'AA' differs from the highest-rated obligations only to a small degree. The obligor's capacity to meet its financial commitment on the obligation is very strong.</li> <li>An obligation rated 'A' is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligations in higher-rated categories. However, the obligor's capacity to meet its financial commitments on the obligation is still strong.</li> <li>An obligation rated 'BBB' exhibits adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to weaken the obligor's capacity to meet its financial commitments on the obligation.</li> <li>Ratings from 'AA' to 'CCC' may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the rating categories.</li> <li>A short-term obligation rated 'A-1' is rated in the highest category by S&amp;P Global Ratings. The obligor's capacity to meet its financial commitments on the obligation is strong. Within this category, certain obligations are designated with a plus sign (+). This indicates that the obligor's capacity to meet its financial commitments on these obligations is extremely strong. A short term obligation rated 'A-1+' has extremely strong capacity to meet its financial commitments.</li> </ul>	An S&P Global Ratings outlook assesses the potential direction of a long-term credit rating over the intermediate term, which is generally up to two years for investment grade and generally up to one year for speculative grade.

Institution	Rating	Outlook
Fitch Ratings	<ul> <li>'AA' (Very High Credit Quality) ratings denote expectations of very low default risk. They indicate very strong capacity for payment of financial commitments. This capacity is not significantly vulnerable to foreseeable events.</li> <li>'A' (High Credit Quality) ratings denote expectations of low default risk. The capacity for payment of financial commitments is considered strong. This capacity may, nevertheless, be more vulnerable to adverse business or economic conditions than is the case for higher ratings.</li> <li>'BBB' (Good Credit Quality) ratings indicate that expectations of default risk are currently low. The capacity for payment of financial commitments is considered adequate, but adverse business or economic conditions are more likely to impair this capacity.</li> <li>The modifiers "+" or "-" may be appended to a rating to denote relative status within major rating categories.</li> <li>'F1' (Highest Short-Term Credit Quality) ratings indicate the strongest intrinsic capacity for timely payment of financial commitments; may have an added "+" to denote any exceptionally strong credit feature.</li> </ul>	Outlooks indicate the direction a rating is likely to move over a one- to two-year period. They reflect financial or other trends that have not yet reached or been sustained the level that would cause a rating action, but which may do so if such trends continue.
Morningstar DBRS	<ul> <li>An obligation rated 'AA' is of superior credit quality. The capacity for the payment of financial obligations is considered high. Credit quality differs from AAA only to a small degree. Unlikely to be significantly vulnerable to future events.</li> <li>An obligation rated 'A' is of good credit quality. The capacity for the payment of financial obligations is substantial, but of lesser credit quality than AA. May be vulnerable to future events, but qualifying negative factors are considered manageable.</li> <li>All rating categories from AA to CCC contain the subcategories (high) and (low). The absence of either a (high) or (low) designation indicates the credit rating is in the middle of the category.</li> <li>R-1 ratings indicate the highest credit quality. The capacity for the payment of short-term financial obligations as they fall due is exceptionally high. Unlikely to be adversely affected by future events. The R-1 and R-2 rating categories are further denoted by the subcategories "(high)", "(middle)", and "(low)".</li> <li>Preferred shares rated Pfd-1 are generally of superior credit quality and are supported by entities with strong earnings and balance sheet characteristics. Pfd-1 ratings generally correspond with issuers with a AAA or AA category reference point.</li> <li>Preferred shares rated Pfd-2 are generally of good credit quality. Protection of dividends and principal is still substantial, but earnings, the balance sheet and coverage ratios are not as strong as Pfd-1 rated companies. Generally, Pfd-2 ratings correspond with issuers with an A category or higher reference point.</li> <li>Each rating category of the preferred shares may be denoted by the subcategories "high" and "low". The absence of either a "high" or "low" designation indicates the rating is in the middle of the category.</li> </ul>	considers the credit rating may move if present circumstances continue, or in certain cases as it relates to

#### WHAT THE RATINGS ADDRESS:

#### Short-term and Long-term Senior Debt

Short-term and long-term senior debt credit ratings are the current opinion of the rating agency on creditworthiness of an obligor with respect to fixed-income obligations whose original maturity is of a short and medium to long-term nature, respectively. They address the possibility that a financial obligation will not be honoured as promised and reflect both the likelihood of default and any financial loss suffered in the event of default.

#### **Subordinated Debt**

Subordinated debt credit ratings are the current opinion of the rating agency on creditworthiness of an obligor with respect to a specific financial obligation and a specific class of financial obligation for a specific financial program. Ratings take into consideration the creditworthiness of guarantors, insurers, or other forms of credit enhancement on the obligation and takes into account the currency in which the obligation is denominated.

#### **Preferred Shares**

Preferred shares ratings address the issuer's capacity and willingness to pay dividends and principal, in case of limited life, on a timely basis. They address the likelihood of timely payment of dividends, notwithstanding the legal ability to pass on or defer a dividend payment.

# **Rating Outlook**

Rating Outlook assesses the potential direction of a credit rating over the intermediate to longer term. In determining a Rating Outlook consideration is given to any changes in the economic and fundamental business conditions. An Outlook is not necessarily a precursor of a rating change.

# APPENDIX C – AUDIT COMMITTEE MANDATE

#### ROYAL BANK OF CANADA

(the Bank) April 10, 2024

#### AUDIT COMMITTEE MANDATE

#### A. PURPOSE AND DUTIES OF THE COMMITTEE

#### 1. General Purpose

The Committee is responsible for assisting the Bank's board of directors (the Board) in its oversight of (i) the integrity of the Bank's financial statements; (ii) the qualifications, performance and independence of the external auditors; (iii) the performance of the Bank's internal audit function; (iv) internal controls; and (v) compliance with legal and regulatory requirements.

#### 2. Financial Statements and other Documents

The Committee will regularly review and discuss the following:

- a) prior to review and approval by the Board, the Bank's annual statement which includes its annual consolidated financial statements, its quarterly financial statements, and related management's discussion and analysis;
- b) earnings releases on interim and annual results, the annual information form, the annual report and other financial information, earnings guidance and presentations provided to analysts, rating agencies and the public;
- c) such other periodic disclosure documents as requested by regulators or that may be required by law;
- d) investments and transactions brought to the Committee's attention that could adversely affect the Bank's well-being;
- e) prospectuses relating to the issuance of securities of the Bank;
- f) representations provided by management to the auditors, where appropriate;
- g) reports on any litigation matters which could significantly affect the Bank;
- h) tax matters that are material to the financial statements; and
- i) other reports as required to be communicated by the auditors by the Canadian Public Accountability Board, the Office of the Superintendent of Financial Institutions, and the U.S. Public Company Accounting Oversight Board.

Moreover, the Committee will ensure that adequate procedures are in place for the review of the Bank's public disclosure of financial information derived from the Bank's financial statements, and will periodically assess the adequacy of these procedures.

#### 3. External Auditor

Subject to the shareholders' powers conferred by the *Bank Act*, the Committee will recommend the appointment (or revocation thereof) of any registered public accounting firm (including the external auditor) engaged to prepare or issue an audit report or to perform other audit, review or attest services. The Committee will fix the remuneration and oversee the work of these accounting firms, including the resolution of disagreements with management regarding financial reporting. Such accounting firms will report directly to the Committee.

Moreover, as part of its oversight of the external auditor the Committee will:

- a) meet with the external auditor to review and discuss the annual audit plan, the results of the audit, the auditor's report with respect to the annual statement, and all other reports, returns and transactions as required by applicable laws;
- b) approve all audit engagement fees and terms, as well as the terms of any permitted non-audit services to be provided by the external auditor to the Bank, with such approvals to be given specifically or pursuant to preapproval policies and procedures adopted by the Committee in accordance with applicable laws;
- c) review any concerns that may be brought forward by the external auditor, including any difficulties they may encounter in conducting their audit, as well as management's response to such concerns;
- d) review material correspondence between the external auditor and management relating to audit findings;
- e) taking into account the opinions of management and the Bank's internal auditor, annually assess the external auditor's qualifications and performance, including relevant experience, geographical reach, professional scepticism, quality of services and communications, and independence and objectivity;
- f) review formal written statements delineating all relationships between the external auditor and the Bank that may impact its independence and objectivity;
- g) annually assess the risk of the external auditor withdrawing from the audit;
- h) discuss with the external auditor and with management the annual audited financial statements and quarterly financial statements, as well as related management's discussion and analysis;
- review hiring policies concerning partners, employees and former partners and employees of the present and former external auditors;
- review and evaluate the qualifications, performance and independence of the external auditor's lead partner and discuss the timing and process for implementing the rotation of the lead audit partner, the concurring audit partners and any other active audit engagement team partner;
- on a periodic basis, perform a comprehensive review of the performance of the External Auditor over multiple years to assess the audit firm, its independence and application of professional skepticism; and
- at least annually, obtain and review a report by the external auditor describing: (i) the external auditor's internal quality-control procedures; (ii) the external auditor's internal procedures to ensure independence; and (iii) any material issues raised by the most recent internal quality-control review or peer review of the external auditors, or by any inquiry or investigation by governmental or professional authorities, within the preceding five years, respecting one or more independent audits carried out by the external auditor, and any steps taken to deal with any such issues.

#### 4. Oversight of Independent Control Functions

The Committee will oversee the finance and internal audit functions, having regard to their independence from the businesses whose activities they review. The Committee will review and approve the appointment or removal of each of the Chief Financial Officer (the CFO) and the Chief Audit Executive (the CAE), as well as their respective mandates and the mandates or charters of their respective functions. The Committee will approve each of the functions' organizational structures, budgets and resources. Every year the Committee will assess the performance of each of the CFO and CAE and the effectiveness of their respective functions. It will also periodically review independent assessments of each of these functions. Moreover, it will annually review and approve the internal audit function's overall risk methodology.

#### 5. Internal Control

The Committee will assist in the oversight of internal control by engaging in the following activities:

- a) requiring management to implement and maintain appropriate systems of internal control, including internal controls over financial reporting and for the prevention and detection of fraud and error;
- evaluating and approving systems of internal control and meeting regularly with the CAE and with management to assess the adequacy and effectiveness of these systems;
- c) receiving reasonable assurances on a regular basis from management that the organization is in control;
- d) reviewing reports from the Chief Executive Officer (the CEO) and the CFO regarding any significant deficiency or material weakness in the design or operation of internal controls over financial reporting and the detection of fraud involving management or other employees who have a significant role in the Bank's internal control over financial reporting;
- e) reviewing and approving the Bank's disclosure policy and reviewing reports on the effectiveness of the Bank's disclosure controls and procedures;
- f) reviewing the process relating to the CEO and CFO's certifications on the design and effectiveness of the Bank's disclosure controls and procedures and internal control over financial reporting, and the integrity of the Bank's quarterly and annual financial statements.

#### 6. Internal Auditor

The Committee will regularly meet with the CAE to review and approve the annual internal audit plan and review internal audit activities. The Committee will review and discuss with the CAE issues reported to management by the internal audit function and management's responses and/or corrective actions. The Committee will also evaluate the status of identified control weaknesses, as well as the adequacy and degree of compliance with the Bank's systems of internal control. Other issues that the Committee may review with the CAE include audit scope, information access, resource limitations or any other difficulties encountered by the internal audit function.

#### 7. Capital Management

The Committee will review capital transactions and may designate and authorize the issue of (i) First Preferred Shares and (ii) securities qualifying as additional Tier 1 capital under capital adequacy guidelines issued by the Superintendent of Financial Institutions. The Committee may also review and approve securities disclosure documents in connection with issues of the Bank's subordinated indebtedness as provided in the relevant resolution of the Board.

The Committee will review the adequacy and effectiveness of internal controls related to capital management. It will also discuss with the external auditors any matters arising from the audit that may have an impact on regulatory or capital disclosures included in the Bank's annual statement.

# 8. Committee Reports

The Committee is responsible for preparing any report from the Committee that may be included in the Bank's annual proxy statement.

#### 9. Other

- a) The Committee will discuss major issues regarding accounting principles and financial statement presentations, including significant changes in the Bank's selection or application of accounting principles and analyses prepared by management or the external auditors regarding financial reporting issues and judgments made in connection with the preparation of the financial statements;
- b) The Committee will establish procedures for managing complaints received by the Bank regarding accounting, internal accounting controls or auditing matters, as well as procedures for the confidential and anonymous submission by employees of concerns regarding accounting, internal accounting controls or auditing matters. The Committee will receive reports from the Vice-President, Client Complaints Appeal Office at each Committee meeting and will meet with the Vice-President, Client Complaints Appeal Office annually in relation to these procedures;
- The Committee will review and discuss any reports concerning material violations submitted to it by the Bank's legal counsel pursuant to applicable law and policy;
- d) The Committee will discuss the major financial risk exposures of the Bank and the steps management has taken to monitor and control such exposures;
- e) Subject to the laws applicable to the subsidiary, the Committee may perform for and on behalf of a subsidiary the functions of an audit committee of the subsidiary.

# B. COMMITTEE COMPOSITION AND PROCEDURES

#### 1. Composition of Committee

The Committee will be composed of five or more directors. No Committee member may be an officer or employee of the Bank or of an affiliate of the Bank. Each Committee member will be (i) unaffiliated, as determined in accordance with the regulations made under the *Bank Act*, and (ii) independent, as determined by director independence standards adopted by the Board. Committee membership will reflect a balance of experience and expertise required to fulfill the Committee's mandate.

All Committee members will be financially literate or become financially literate within a reasonable period after appointment to the Committee. At least one member will have accounting or financial management expertise. No member may serve on the audit committees of more than two other public companies, unless the Board determines such simultaneous service would not impair the member's ability to serve effectively on the Committee.

#### 2. Appointment of Committee Members

The Board will appoint or reappoint the Committee members at the annual organizational meeting of the directors. In the normal course members will serve a minimum of three years. Each member will remain a member until a successor is appointed, unless the member resigns, is removed or ceases to be a director. The Board may fill a vacancy that occurs in the Committee at any time.

#### 3. Committee Chair and Secretary

The Board will appoint or reappoint a Committee Chair from among the members of the Committee. If the Board fails to do so, the Committee members will make the appointment or re-appointment. In the normal course the Committee Chair will serve a minimum of three years. The Committee Chair will not be a former employee of the Bank or of an affiliate. The Secretary of the Committee need not be a director.

# 4. Time and Place of Meetings

Meetings may be called by any Committee member, the external auditors, the CFO, the Board Chair, the CEO or the Chief Audit Executive. The Committee members will determine the time and place of and the procedure at meetings, provided that the Committee meets at least quarterly. The Committee members may participate in meetings in person or by telephone, electronic or other communications facilities. The Committee may request any officer or employee of the Bank or the Bank's outside counsel or external auditors to attend a meeting of the Committee or to meet with any members of, or consultants to, the Committee.

#### 5. Quorum

A quorum for meetings will be three members.

#### 6. Notice of Meetings

Notice of the time and place of each meeting will be generally given in writing or by telephone, or by electronic or other communications facilities, to each Committee member and to the external auditors at least 24 hours prior to the time fixed for such meeting; however,

- a member may in any manner waive notice of a meeting and attendance of a member at a meeting is a waiver of notice of the
  meeting, except where a member attends a meeting for the express purpose of objecting to the transaction of any business on the
  grounds that the meeting is not lawfully called;
- b) a resolution in writing signed by all the members entitled to vote on that resolution at a Committee meeting, other than a resolution of the Committee carrying out its duties under subsection 194(3) of the *Bank Act*, will be as valid as if it had been passed at a meeting of the Committee; and
- c) capital transactions may be reviewed and/or authorized at a meeting of which at least one hour prior notice is given.

#### 7. Delegation

The Committee may designate a sub-committee to review any matter within the Committee's mandate.

#### 8. Reporting to the Board

The Committee will report to the Board following each meeting with respect to its activities and recommendations. It will also report to the Board on the annual statement and returns that must be approved by the directors under the *Bank Act*.

# 9. Access to Management and External Advisors

In fulfilling its responsibilities, the Committee will have unrestricted access to management and employees of the Bank. The Committee will select, retain, oversee, terminate and approve the fees of any external advisor that the Committee deems necessary, including any legal or accounting advisor, to assist it in fulfilling its responsibilities. The Bank will provide appropriate funding, as determined by the Committee, for any such engagement.

The Committee may also investigate any matter with full access to all books, records, facilities, management and employees of the Bank.

#### 10. Private Meetings

At least quarterly the Committee will meet with no members of management present and have separate private meetings with the external auditors, and each of the CAE, the CFO and the Chief Legal & Administrative Officer, to discuss any matters that the Committee or these parties believe should be discussed.

# 11. Minutes

Minutes of meetings of the Committee will be maintained by the Secretary and subsequently presented to the Committee and to the Board, if required by the Board.

# 12. Evaluation of Effectiveness and Review of Mandate

The Committee will annually review and assess the adequacy of its mandate and evaluate its effectiveness in fulfilling its mandate.

# APPENDIX D – PRE-APPROVAL POLICIES AND PROCEDURES

Policies and Procedures for the Monitoring, and Pre-Approval of Services to be Performed by Public Accounting Firms and the Review of the External Auditors (effective April 10, 2024)

#### Mandate

- 1. The mandate of the Audit Committee established by the Board of Directors ("Board") confers on the Audit Committee the authority and responsibility (among other things) to:
  - Pre-approve all audit and any legally permissible non-audit services to be provided by the external auditors and all audit, review and attest services provided by any other public accounting firm, with such approval to be given either specifically or pursuant to pre-approval policies and procedures adopted by the Audit Committee; and
  - To complete an annual and five year comprehensive reviews of the external auditor's performance and to recommend to the Board the selection and termination of the external auditor subject to shareholder approval.

#### **Purpose**

- 2. These Policies and Procedures are intended to:
  - a) specify the methods by which the Audit Committee may pre-approve the provision of audit, review and attest services by any public accounting firm to the Bank and its subsidiaries;
  - b) specify the methods by which the Audit Committee may pre-approve the provision of non-audit services to the Bank and its subsidiaries by the Bank's external auditors and their affiliates (the "auditors") that do not impair the independence of the auditors under applicable laws and professional standards, including the rules of the Chartered Professional Accountants Canada, the Public Company Accounting Oversight Board ("PCAOB"), the Canadian Securities Administrators and the U.S. Securities and Exchange Commission;
  - c) set forth procedures designed to ensure that any services to be provided by the auditors and that any audit, review or attestation services to be performed by any other public accounting firm have been properly authorized and pre-approved under the authority of the Audit Committee, and that the Audit Committee is promptly informed of each service;
  - d) ensure that the Audit Committee's responsibilities are not delegated to management in violation of applicable law;
  - e) specify the policies relating to the annual and comprehensive evaluation of the external auditor and selection of the external auditor by the Audit Committee for recommendation to the Board.

#### Required Approval of Audit and Non-Audit Services

- 3. The Audit Committee shall pre-approve all engagements of the auditors by:
  - a) the Bank; or
  - b) any subsidiary.
- 4. The Audit Committee shall pre-approve all engagements of any public accounting firm to provide audit, review or attest services to:
  - a) the Bank; or
  - b) any subsidiary.

- 5. The Audit Committee shall evidence its pre-approval by resolution of the Audit Committee or through the exercise of delegated authority in accordance with these Policies and Procedures.
- 6. "Subsidiary" has the meaning set forth in Rule 210.1-02(x) of the U.S. Securities and Exchange Commission's Regulation S-X.
- 7. For the purpose of these Policies and Procedures and any pre-approval:
  - a) "Audit services" include services that are a necessary part of the audit process and any activity that is a necessary procedure used by the accountant in reaching opinions on the financial statements and on internal control over financial reporting as is required under applicable auditing standards ("AAS"), including technical reviews to reach an audit judgment on complex accounting issues;
  - b) The term "audit services" is broader than those services strictly required to perform an audit pursuant to AAS and include such services as:
    - i) the issuance of comfort letters and consents in connection with offerings of securities;
    - ii) the performance of domestic and foreign statutory audits;
    - iii) attest services required by statute or regulation; and
    - iv) assistance with and review of documents filed with the Office of the Superintendent of Financial Institutions, Canadian Securities Administrators, the Securities and Exchange Commission, the Board of Governors of the Federal Reserve Board and other regulators having jurisdiction over the activities of the Bank and its subsidiaries, and responding to comments from such regulators;
  - c) "Audit-related" services are assurance and related services traditionally performed by the Bank's independent auditor and that are reasonably related to the performance of the audit or review of financial statements and not categorized under "audit fees" for disclosure purposes.
    - "Audit-related services" include:
    - i) employee benefit plan audits;
    - ii) due diligence related to mergers and acquisitions,
    - iii) consultations and audits in connection with acquisitions, including evaluating the accounting treatment for proposed transactions;
    - iv) reporting on the effectiveness of internal controls as required by contract or for business reasons;
    - v) the audits of various trusts and limited partnerships;
    - vi) attest services not required by statute or regulation; and
    - vii) consultations regarding financial accounting and reporting standards.

Non-financial operational audits are not "audit-related" services.

- d) "Review services" are services applied to unaudited financial statements and consist of the inquiry and analytical procedures that provide the accountant with a reasonable basis for expressing limited assurance that there are no material modifications that should be made to financial statements for them to be in conformity with International Financial Reporting Standards or, if applicable, any other comprehensive basis of accounting.
- e) "Attest" services are engagements where the accountant issues an examination, a review, or an agreed-upon procedures report on a subject matter, or an assertion about the subject matter that is the responsibility of another party. Examples of the subject matter of an "attest" engagement include: examinations (i.e., audits) of financial forecasts and projections; reviews of pro-forma financial information; reporting on a company's internal control over financial reporting; and examinations of compliance with contractual arrangements or laws and regulations.

f) A "subsidiary" of a specified person is an affiliate controlled by such person directly, or indirectly through one or more intermediaries.

#### **External Auditor Selection and Appointment**

- 8. The Audit Committee shall monitor, review and assess the quality of the external auditor on an annual basis. The annual assessment will include:
  - a) quality and thoroughness of the audit approach and methodology;
  - b) level of professional skepticism, and critical judgments applied by the audit team;
  - c) independence of the external audit firm and the engagement partner;
  - d) skills and knowledge of the audit team;
  - e) level of understanding of our businesses and the financial services industry;
  - f) sufficiency of resources and ability to complete the audit in a timely manner;
  - g) partner rotation;
  - h) value for money;
  - i) quality of communications;
  - j) risk of likelihood of withdrawal from the audit;
  - k) input from senior management of RBC;
  - 1) input from RBC Internal Audit;
  - m) a self-assessment prepared by the auditor; and
  - n) audit quality metrics and other matters as determined by the Audit Committee or the Board of Directors.
- 9. At least every five years the Audit Committee will conduct a comprehensive assessment of the external auditor. The assessment will include:
  - a) considerations included within the annual assessment;
  - b) performance since the last comprehensive review, or appointment of the external auditor;
  - c) quality and continuity of the engagement team;
  - d) tenure of the auditor;
  - e) incidence of independence threats and effectiveness of applied safeguards;
  - f) track record of the auditor applying professional skepticism; and
  - g) responsiveness to changes in the Bank's businesses (i.e. significant acquisitions or changes to systems) and calls for improvement from regulators, inspectors, Audit Committee or management.
- 10. The Audit Committee will take the following into account in deciding whether to recommend the tendering of the external audit engagement of the Bank:
  - a) the results of the annual and comprehensive assessments (refer to factors described in sections 8 and 9);
  - b) the impact of regulatory and legislative requirements, including mandatory tendering and rotation requirements on the Bank and its subsidiaries; and
  - c) other factors deemed relevant by the Audit Committee or the Board.

# **Delegation**

- 11. The Audit Committee may from time to time delegate to one or more of its members who are "independent" (within the meanings of applicable law and the rules or policies of a securities commission having jurisdiction, and the New York Stock Exchange) the power to pre-approve from time to time:
  - a) audit, audit-related, review or attest services to be provided by any public accounting firm (including the auditors) that have not been otherwise approved by the Audit Committee;
  - b) permissible non-audit services to be provided by the auditors that have not otherwise been approved by the Audit Committee, and
  - c) changes in the scope of pre-approved engagements and the maximum estimated fees for engagements that have been pre-approved by the Audit Committee.

- 12. The member(s) exercising such delegated authority must report at the next regularly scheduled meeting of the Audit Committee any services that were pre-approved under this delegated authority since the date of the last regularly scheduled meeting.
- 13. The member(s) exercising delegated authority may evidence his or her approval by signing an instrument in writing that describes the engagement with reasonable specificity, or by signing an engagement letter containing such a description.
- 14. In addition, member(s) exercising delegated authority may pre-approve an engagement orally, if any such oral approval is promptly confirmed in writing. Such written confirmation may be given by fax or e-mail and must describe the engagement with reasonable specificity.
- 15. The Audit Committee may, each fiscal year, pre-approve additional fees for addendums to existing audit and audit-related engagements and new audit and audit-related engagements, categorized based on the nature of the underlying services, with a maximum amount ("fee cap") assigned for each category of services ("fee buckets"). The Audit Committee delegates authority to management to approve final fees associated with such pre-approved engagements provided that such fees do not exceed the fee cap. Any engagement subject to this process will be limited to those with little or no risk of independence breaches. Management shall provide a summary of cumulative fees approved under each fee bucket at the scheduled meetings of the Audit Committee held following the end of each fiscal quarter end.

#### **Responsibilities of External Auditors**

- 16. To support the independence process, the external auditors shall:
  - a) confirm in engagement letters that performance of the work will not impair independence;
  - b) satisfy the Audit Committee that they have in place comprehensive internal policies and processes to ensure adherence, world-wide, to independence requirements, including robust monitoring and communications;
  - c) provide communication and confirmation to the Audit Committee on independence on a regular basis, and at least annually;
  - d) provide for the Audit Committee's approval a summary of proposed services for the fiscal year and a detailed breakdown of expected fees;
  - e) utilize the tracking numbers assigned by management to all pre-approved services in all fee billings and correspondence, provide detailed annual fee reporting and review management's detailed quarterly fee reporting.
  - f) communicate to the Audit Committee all matters required to be communicated by the Canadian Public Accountability Board and U.S. Public Company Accounting Oversight Board.
  - g) maintain certification by the Canadian Public Accountability Board and registration with the U.S. Public Company Accounting Oversight Board: and
  - h) review their partner rotation plan and advise the Audit Committee on an annual basis.

#### **Engagements**

- 17. The Audit Committee will not, as a general rule, pre-approve a service more than one year prior to the time at which it is anticipated that the firm of accountants will be engaged to provide the service.
- 18. Engagements will not be considered to be revolving in nature and may not operate from year-to-year without re-approval.
- 19. All audit, audit-related, and non-audit services to be provided by the auditor, and all audit, audit-related, review or attest services to be provided by any public accounting firm, shall be provided pursuant to an engagement letter that shall:
  - a) be in writing and signed by the auditors or public accounting firm;
  - b) specify the particular services to be provided;
  - c) specify the period in which the services will be performed;

- d) specify the maximum total fees to be paid; and
- e) in the case of engagements of the auditors, include a confirmation by the auditors that the services are not within a category of services the provision of which would impair their independence under applicable law and Canadian and U.S. generally accepted auditing standards.
- 20. Management shall, before signing and delivering an engagement letter on behalf of the Bank or a subsidiary and before authorizing the commencement of an engagement:
  - a) obtain an engagement letter in accordance with these Policies and Procedures;
  - b) confirm that the services are described in the engagement letter accurately and with reasonable specificity;
  - c) obtain confirmation from the auditors that they have conducted an analysis that supports their conclusion that performance of the services will not impair their independence;
  - d) with respect to engagements for the provision of services other than audit and audit-related services, obtain confirmation from legal counsel of the Bank that performance of the services will not impair independence; and
  - e) verify that the performance of the services has specifically been approved by the Audit Committee or a member in accordance with authority delegated by the Audit Committee.

All engagement letters entered into pursuant to these Policies and Procedures shall be made available to the Audit Committee upon request.

#### **Tax Services**

- 21. The Audit Committee, and any member in the exercise of delegated power, shall consider the provision of tax services by the auditors on an engagement-by-engagement basis.
- 22. The Audit Committee shall not pre-approve, and any member of the Audit Committee may not exercise delegated power to engage the auditors to provide, tax services to the Bank or a subsidiary:
  - a) to represent the Bank or a subsidiary before a tax or other court;
  - b) if the provision of the services would be prohibited, as prescribed by paragraph 26 of these Policies and Procedures; or
  - c) related to marketing, planning or opinion in favour of the tax treatment of (1) a transaction offered under conditions of confidentiality and for which a fee has been or will be paid by the Bank; or (2) a transaction that was initially recommended directly or indirectly, by the accountant and a significant purpose of which is tax avoidance, unless the proposed tax treatment is at least more likely than not to be allowable under applicable tax laws.
- 23. The Audit Committee shall not pre-approve, and any member of the Audit Committee may not exercise delegated power to engage the auditors to provide, tax services to a person in a financial oversight role at the Bank, or an immediate family member of such a person, except as would be permitted by the PCAOB rules.

#### **Other Non-Audit Services**

24. The Audit Committee, and any member in the exercise of delegated power, shall consider the provision of other non-audit services (non-audit services other than audit-related services and tax services, and including non-audit services relating to internal control and business recovery services) by the auditors on an engagement-by-engagement basis. Any approval of non-audit services relating to internal control must be preceded by a discussion with the auditors of the potential effects of the services on independence as required by the rules of the PCAOB.

#### Value-Added Services

25. The Audit Committee recognizes and approves of the fact that the auditors from time to time provide, without charge or commitment, value added services to the Bank and its subsidiaries that do not involve an engagement of the auditors. Such value added services may include surveys, educational sessions, workshops, roundtable meetings with peers, benchmarking studies, and monitoring of contest draws as an independent observer. The Audit Committee receives and reviews periodic reports from management and the auditors providing representative examples of such services as part of its monitoring of the Bank's overall relationship with the auditors.

#### **Prohibited Services**

- 26. The Audit Committee shall not pre-approve, and any member may not exercise delegated power to engage the auditors to provide, any services, including tax services or business recovery services, that (i) provide for a contingency or commission fee arrangement; or (ii) involve the auditors performing any of the non-audit services set forth in paragraph (c)(4) of Rule 210.2-01 of the U.S. Securities and Exchange Commission's Regulation S-X, which include:
  - a. providing bookkeeping or other services related to the accounting records or financial statements of the Bank or any of its subsidiaries,
  - b. providing financial information systems design and implementation to the Bank or any of its subsidiaries,
  - c. providing appraisal or valuation services, fairness opinions, or contribution-in-kind reports to the Bank or any of its subsidiaries,
  - d. providing actuarial services to the Bank or any of its subsidiaries,
  - e. providing internal audit outsourcing services to the Bank or any of its subsidiaries,
  - f. functioning in the role of management for the Bank or any of its subsidiaries,
  - g. providing human resources services to the Bank or any of its subsidiaries,
  - h. providing broker-dealer, investment adviser, or investment banking services to the Bank or any of its subsidiaries,
  - i. provide legal services to the Bank or any of its subsidiaries,
  - j. providing services that fall within the category of "expert" services that are prohibited by applicable law to the Bank or any of its subsidiaries.
  - k. auditing their own work in relation to the Bank or any of its subsidiaries,
  - 1. serving in an advocacy role for the Bank or any of its subsidiaries, or
  - m. providing services to the Bank or any of its subsidiaries that would otherwise compromise their independence under applicable regulatory guidance.

For the purposes of the Prohibited Services listed in Section 26, a "subsidiary" includes any entity for which the Bank uses the equity method of accounting and where it is material to the Bank. Therefore, the Audit Committee is not permitted to pre-approve the provision of the prohibited services listed above by the auditors to these entities.

# **Timely Reporting to the Audit Committee**

27. Management shall provide a written report to the Audit Committee of services performed and related fees, and if necessary, proposals for approval of any increase in fees or new engagements at the scheduled meetings of the Audit Committee held following the end of each fiscal quarter end, or more frequently if required.

### No Delegation to Management

28. Nothing in these Policies and Procedures shall be interpreted as a delegation to management of the Audit Committee's responsibilities in violation of applicable law.

# **Effective Date**

29. These updated Policies and Procedures are effective as and from April 10, 2024.

# $\underline{Disclosure}$

30. The Bank shall disclose these Policies and Procedures in its periodic filings, as required by applicable law.

# Review

31. The Audit Committee shall review and reassess the adequacy of these Policies and Procedures on a triennial basis.

# 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 fiscal year ended October 31, 2024, compared to the preceding fiscal year. This MD&A should be read in conjunction with our 2024 Annual Consolidated Financial Statements and related notes and is dated December 3, 2024. Effective November 1, 2023, we adopted IFRS 17 Insurance Contracts (IFRS 17). Comparative amounts have been restated from those previously presented. All amounts are in Canadian dollars, unless otherwise specified, and are based on financial statements presented 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 2024 Annual Information Form, is available free of charge on our website at rbc.com/investorrelations, on the Canadian Securities Administrators' website, SEDAR+, at sedarplus.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.

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# 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 2024 Annual Report, in other filings with Canadian regulators or the SEC, in other reports to shareholders, and in other communications. In addition, our representatives may communicate forward-looking statements orally to analysts, investors, the media and others. Forward-looking statements in this document include, but are not limited to, statements relating to our financial performance objectives, priorities, vision and strategic goals, the economic, market, and regulatory review and outlook for Canadian, U.S., United Kingdom (U.K.), European and global economies, the regulatory environment in which we operate, the expected impacts of the HSBC Bank Canada (HSBC Canada) transaction, including transaction and integration costs, the Strategic priorities and Outlook sections for each of our business segments, the risk environment including our credit risk, market risk, liquidity and funding risk as well as the offectiveness of our risk monitoring our climate, and regulatory required and regulatory required to the state of the proof of the state of the proof of the proof of the positions and regulatory and regulatory required to the proof of the priorities and Outlook sections for each of our business segments, the risk environment including our credit risk, market risk, liquidity and funding risk as well as the effectiveness of our risk monitoring, our climate- and sustainability-related beliefs, targets and goals and related legal and regulatory developments, and include statements made by our President and Chief Executive Officer and other members of management. The forward-looking statements contained in this document represent the views of management and are 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, strategic goals and priorities and anticipated financial performance, and may not be appropriate for other purposes. Forward-looking statements are typically identified by words such as "believe", "expect", "suggest", "foresee", "foresee", "foredest, "schedule", "anticipate", "intend", "estimate", "goal", "commit", "target", "objective", "plan", "outlook", "timeline" and "project" and similar expressions of future or conditional verbs such as "will", "may", "might", "should", "could", "can", "would" or negative or grammatical variations thereof.

By their very nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties, both general and specific in nature, which give rise to the possibility that our predictions forecasts, projections, expectations or conclusions will not prove to be accurate

By their very nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties, both general and specific in nature, 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, that our financial performance, environmental & social or other objectives, vision and strategic goals will not be achieved, and that our actual results may differ materially from such predictions, forecasts, projections, expectations or conclusions.

We caution readers not to place undue reliance on our forward-looking 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, but are not limited to: credit, market, liquidity and funding, insurance, operational, compliance (which could lead to us being subject to various legal and regulatory proceedings, the potential outcome of which could include regulatory restrictions, penalties and fines), strategic, reputation, legal and regulatory environment, competitive and systemic risks and other risks discussed in the risk sections of our 2024 Annual Report including business and economic conditions in the geographic regions in which we operate. Canadian housing and household indebtedness Report, including business and economic conditions in the geographic regions in which we operate, Canadian housing and household indebtedness, information technology, cyber and third-party risks, geopolitical uncertainty, environmental and social risk, digital disruption and innovation, privacy and data related risks, regulatory changes, culture and conduct risks, the effects of changes in government fiscal, monetary and other policies, tax risk and transparency, and our ability to anticipate and successfully manage risks arising from all of the foregoing factors. Additional factors that could cause actual results to differ materially from the expectations in such forward-looking statements can be found in the risk sections of our 2024 Annual Report, as may be updated by subsequent quarterly reports.

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, as well as the inherent uncertainty of forward-looking statements. Material economic assumptions underlying the forward-looking statements contained in this 2024 Annual Report 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, as such sections may be updated by subsequent quarterly reports. Assumptions about costs related to post-close consolidation and integration activities were considered in the estimation of transaction and integration costs. Any forward-looking statements contained in this document represent the views of management only as of the date hereof, and 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 this 2024 Annual Report, as may be updated by subsequent

quarterly reports.

Selected financial and other highlights							Table 1
(Millions of Canadian dollars, except per share, number of and percentage amounts)		2024 (1)		2023 (2)		2024 vs.	
Total revenue Provision for credit losses (PCL) Non-interest expense Income before income taxes	\$	57,344 3,232 34,250 19,862	\$	51,464 2,468 30,813 18,183	\$	5,880 764 3,437 1,679	11.4% n.m. 11.2% 9.2%
Net income	\$	16,240	\$	14,612	\$	1,628	11.1%
Net income – adjusted (3), (4)	\$	17,430	\$	15,829	\$	1,601	10.1%
Segments – net income Personal Banking (5) Commercial Banking (5) Wealth Management (5) Insurance Capital Markets Corporate Support	\$	5,921 2,818 3,422 729 4,573 (1,223)	\$	5,418 2,582 2,693 549 4,139 (769)	\$	503 236 729 180 434 (454)	9.3% 9.1% 27.1% 32.8% 10.5% n.m.
Net income	\$	16,240	\$	14,612	\$	1,628	11.1%
Selected information Earnings per share (EPS) – basic – diluted – basic adjusted (3), (4) – diluted adjusted (3), (4) Return on common equity (ROE) (4) ROE – adjusted (3), (4) Average common equity (6) Net interest margin (NIM) – on average earning assets, net (4) PCL on loans as a % of average net loans and acceptances PCL on performing loans as a % of average net loans and acceptances PCL on impaired loans as a % of average net loans and acceptances Cross impaired loans (GIL) as a % of loans and acceptances Liquidity coverage ratio (LCR) (4), (7) Net stable funding ratio (NSFR) (4), (7)	\$	11.27 11.25 12.11 12.09 14.4% 15.5% 110,650 1.54% 0.35% 0.07% 0.28% 0.59% 128% 114%	\$	10.33 10.32 11.21 11.19 14.3% 15.5% 100,400 1.50% 0.29% 0.29% 0.21% 0.42% 131% 113%	\$	0.94 0.93 0.90 0.90 n.m. n.m. 10,250 n.m. n.m. n.m. n.m. n.m.	9.1% 9.0% 8.0% 8.0% 10 bps - bps 10.2% 4 bps 6 bps (1) bps 17 bps (300) bps 100 bps
Capital, Leverage and Total loss absorbing capacity (TLAC) ratios (4), (8), (9) Common Equity Tier 1 (CET1) ratio Tier 1 capital ratio Total capital ratio Leverage ratio TLAC ratio TLAC leverage ratio		13.2% 14.6% 16.4% 4.2% 29.3% 8.4%		14.5% 15.7% 17.6% 4.3% 31.0% 8.5%		n.m. n.m. n.m. n.m. n.m. n.m.	(130) bps (110) bps (120) bps (10) bps (170) bps (10) bps
Selected balance sheet and other information (10) Total assets Securities, net of applicable allowance Loans, net of allowance for loan losses Derivative related assets Deposits Common equity Total risk-weighted assets (RWA) (4), (8), (9) Assets under management (AUM) (4) Assets under administration (AUA) (4), (11)	1	2,171,582 439,918 981,380 150,612 1,409,531 118,058 672,282 1,342,300 4,965,500	\$	2,006,531 409,730 852,773 142,450 1,231,687 107,734 596,223 1,067,500 4,338,000	\$	165,051 30,188 128,607 8,162 177,844 10,324 76,059 274,800 627,500	8.2% 7.4% 15.1% 5.7% 14.4% 9.6% 12.8% 25.7% 14.5%
Common share information Shares outstanding (000s) – average basic	1	1,411,903 1,413,755 1,414,504 5.60 3.9% 50% 168.39 238,188	·	1,391,020 1,392,529 1,400,511 5.34 4.3% 52% 110.76 155,121	\$	20,883 21,226 13,993 0.26 n.m. n.m. 57.63 83,067	1.5% 1.5% 1.0% 4.9% (40) bps (200) bps 52.0% 53.5%
Business information (number of) Employees (full-time equivalent) (FTE) Bank branches Automated teller machines (ATMs)		94,838 1,292 4,367		91,398 1,247 4,341		3,440 45 26	3.8% 3.6% 0.6%
Period average US\$ equivalent of C\$1.00 (13) Period-end US\$ equivalent of C\$1.00	\$ \$	0.736 0.718	\$ \$	0.741 0.721	\$ \$	(0.005) (0.003)	(0.7)% (0.4)%

- On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, and are included in our Personal (1)
- Banking, Commercial Banking, Wealth Management and Capital Markets segments. For further details, refer to the Key corporate events section.

  Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. For further details on the impacts of the adoption of IFRS 17 including the description of accounting policies selected, refer to Note 2 of our 2024 Annual Consolidated Financial Statements. (2)
- These are non-GAAP measures. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section. See Glossary for composition of these measures.
- Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial
- Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing® moved from the previous Personal & Commercial Banking segment to the Wealth Management segment. Amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section. Average amounts are calculated using methods intended to approximate the average of the daily balances for the period.

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

  Capital ratios and RWA are calculated using OSFI's Capital Adequacy Requirements (CAR) guideline, the Leverage ratio is calculated using OSFI's Leverage Requirements (LR) guideline, and both the TLAC and TLAC leverage ratios are calculated using OSFI's LAC guideline. The results for the year ended October 31, 2023 reflect our adoption of the revised CAR and LR guidelines that came into effect in the second quarter of 2023, as further updated on October 20, 2023 as part of OSFI's implementation of the Basel III reforms. The results for the year ended October 31, 2024 also reflect our adoption of the revised market risk and CVA frameworks that came into effect on November 1, 2023. For further details, refer to the Capital management section.
- came into effect on November 1, 2023. For further details, refer to the Capital management section.

  As prior period restatements are not required by OSFI, there was no impact from the adoption of IFRS 17 on regulatory capital, RWA, capital ratios, leverage ratio, TLAC available and TLAC ratios for periods prior to November 1, 2023. (9)
- Represents period-end spot balances.

  AUA includes \$15 billion and \$6 billion (2023 \$13 billion and \$7 billion) of securitized residential mortgages and credit card loans, respectively.

  Based on TSX closing market price at period-end.

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

- not meaningful

#### 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 98,000+ employees who leverage their imaginations and insights to 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 more than 18 million clients in Canada, the U.S. and 27 other countries. Learn more at rbc.com.

Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing moved from the previous Personal & Commercial Banking segment to the Wealth Management segment. Comparative results in this MD&A have been revised to conform to our new basis of segment presentation.

Our business segments are described below.

Personal Banking Provides a broad suite of financial products and services to retail clients in Canada, the Caribbean and the U.S. Our commitment to building and maintaining deep and meaningful relationships with our clients is underscored by the delivery of exceptional client experiences, the breadth of our product suite, our depth of expertise and the features of our digital solutions.

Commercial Banking Offers a wide range of lending, deposit and transaction banking products and services to Canadian companies and foreign businesses in Canada. Our team of relationship managers and specialists serves the full lifecycle of commercial clients, from entrepreneurs and mid-market enterprises to the largest Canadian privately owned companies, public corporations and Canadian subsidiaries of global multinationals.

Wealth Management Primarily serves affluent, high net worth (HNW) and ultra-high net worth (UHNW) clients from our offices in key financial centres across the globe. We offer a comprehensive suite of wealth, investment, trust, banking, credit and other solutions to this client segment. We also provide a self-directed investment service in Canada, as well as asset management products globally to institutional and individual clients through our distribution channels and third-party distributors. We offer asset services and investor services to financial institutions, asset managers and asset owners in Canada.

Insurance

Offers a comprehensive suite of advice and solutions for individual and business clients including life, health, wealth solutions, property & casualty, travel, group benefits, longevity reinsurance and reinsurance. We provide tailored, client-led advice and solutions, harnessing the power of technology and data and leveraging the strength and scale of the RBC enterprise as our competitive advantage.

**Capital Markets** 

Provides expertise in advisory & origination, sales & trading, lending & financing and transaction banking to corporations, institutional clients, asset managers, private equity firms and governments globally. We serve clients from 58 offices in 16 countries across North America, the U.K. & Europe, Australia, Asia and other regions.

# Vision and strategic goals

Our business strategies and actions are guided by our vision, "To be among the world's most trusted and successful financial institutions."

Our three strategic goals are:

- In Canada, to be the undisputed leader in financial services;
- In the U.S., to be the preferred partner to institutional, corporate, commercial and HNW clients and their businesses; and
- In select global financial centres, to be a leading financial services partner valued for our expertise.

For our progress in 2024 against our business strategies and strategic goals, refer to the Business segment results section.

# Economic, market and regulatory review and outlook – data as at December 3, 2024

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

Central banks have begun reducing interest rates from elevated levels as inflation slows. Unemployment rates remain low across most advanced economies but have increased more substantially in Canada. The U.S. economy remains resilient with strong GDP growth and a low unemployment rate. The number of job openings has continued to decline, signaling a slowdown in hiring demand but high levels of government spending are expected to continue to protect against a significant softening in U.S. labour markets in calendar 2025. We expect the Bank of Canada (BoC) to cut interest rates more aggressively than in other regions in response to underperforming economic growth and deteriorating labour market conditions. However, we do not expect a meaningful acceleration of GDP growth in Canada in calendar 2025, in part because of planned reductions in Canadian immigration levels that are expected to slow population growth. We anticipate the outperformance of the U.S. economy will lead to fewer and smaller interest rate reductions from the U.S. Federal Reserve (Fed). GDP growth in the Euro area and the United Kingdom is expected to abate with the Bank of England (BOE) and the European Central Bank (ECB) also expected to lower interest rates at a more gradual pace.

#### Canada

Canadian GDP is expected to increase 1.0% in calendar 2024 following a 1.5% increase in calendar 2023. GDP has continued to increase, in aggregate, but has declined on a per-capita basis for six consecutive quarters as of the third calendar quarter of 2024. Labour market conditions have weakened as the unemployment rate increased by 0.8% from a year ago in October and is approximately one percent above 2019 (pre-pandemic) levels. Inflation rates have moderated sharply. Year-over-year growth in the Canadian consumer price index (CPI) has been below the top end of the BoC's 1% to 3% target range since January 2024, and was at the 2% mid-point target in October. Canadian population growth is expected to slow in calendar 2025 amidst reductions in federal government visa issuances. The weakening economy signals that inflation is likely to continue to slow, prompting further interest rate reductions from the BoC. The BoC has already reduced the overnight rate by 125 basis points since June 2024 and we expect further reductions to a 2.0% rate by the end of the third calendar quarter of 2025. GDP growth is expected to remain slow in calendar 2025 with the lagged impact of lower interest rates supporting stronger per-capita GDP growth, combined with the impact of slower population growth.

#### U.S.

U.S. GDP growth has remained resilient and is expected to increase 2.8% in calendar 2024 following a 2.9% increase in calendar 2023. Consumer spending has been robust despite high interest rates and employment has continued to increase at a solid pace. Hiring demand has continued to slow, indicated by declining job openings, and wage growth has shown signs of deceleration. The unemployment rate has edged higher but remains low at 4.1% as of October. U.S. inflation growth has slowed after showing signs of reacceleration earlier in calendar 2024 but remains above the Fed's 2% target. Slower price growth and gradual increases in the unemployment rate over the last year prompted the Fed to begin lowering interest rates with a 50 basis point reduction to the target range for the federal funds rate in September and followed with a 25 basis point reduction in November. We expect an additional 50 basis points of reductions to the target range for the federal funds rate by the end of the first calendar quarter of 2025. A significant government budget deficit is expected to keep GDP growth positive and prevent a substantial increase in the unemployment rate. However, this is also expected to limit the slowing in inflation and interest rates reductions in calendar 2025.

#### Europe

Euro area GDP is expected to rise by 0.7% in calendar 2024 following a 0.5% increase in calendar 2023. Unemployment rates remain very low across countries in the Euro area, however GDP growth is expected to remain slow in the first half of calendar 2025. Inflation in the Euro area has slowed with year-over-year growth in consumer prices down to 2.3% in November. The ECB has cut the deposit rate by 75 basis points since early June 2024 and we expect further gradual reductions to a 2.25% rate by the end of the second calendar quarter of 2025. U.K. GDP is projected to rise by 0.9% in calendar 2024 after a 0.3% rise in calendar 2023. In the U.K., GDP growth strengthened over the first half of calendar 2024 but is expected to grow at a slower pace in the second half of the year. The unemployment rate in the U.K. is expected to remain low through calendar 2025. U.K. inflation has moderated, allowing the BOE to begin gradually lowering interest rates from higher levels. The BOE reduced the Bank Rate by 25 basis points to 4.75% in November and we expect further gradual reductions to 4.0% by the end of the third calendar quarter of 2025.

#### Financial markets

Government bond yields increased after declining into the summer as markets await the extent to which central banks will be able to cut interest rates in the year ahead, particularly in the U.S. where the economy remains resilient and inflation remains elevated in part due to elevated government budget deficits. Equity markets have increased to record highs. Commodity prices, on average, remain well below peak levels from 2022 but are still historically high. Oil prices have been volatile but are below levels a year ago.

#### 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 adverse business or financial impacts. Such impacts could result from new or amended laws or 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.

For a discussion on risk factors resulting from these and other developments which may affect our business and financial results, refer to the risk sections of this 2024 Annual Report. For further details on our framework and activities to manage risks, refer to the risk and Capital management sections of this 2024 Annual Report.

# Key corporate events

#### **HSBC Bank Canada**

On March 28, 2024, we completed the acquisition of HSBC Bank Canada (HSBC Canada). The acquisition of HSBC Canada (the HSBC Canada transaction) gives us the opportunity to enhance our existing businesses in line with our strategic goals and better positions us to be the bank of choice for commercial clients with international needs, newcomers to Canada and globally connected clients. HSBC Canada results have been consolidated from the closing date and are included in our Personal Banking, Commercial Banking, Wealth Management and Capital Markets segments.

Total consideration of \$15.5 billion in cash included \$13.5 billion for 100% of the common shares of HSBC Canada, \$2.1 billion for the preferred shares and subordinated debt held directly or indirectly by HSBC Holdings plc, \$(0.5) billion for the settlement of pre-existing relationships with HSBC Canada and \$0.4 billion for an additional amount that accrued from August 30, 2023 to the closing date. This additional amount was calculated based on the \$13.5 billion all-cash purchase price for the common shares of HSBC Canada and the Canadian Overnight Repo Rate Average. Relatedly, under a locked box mechanism, HSBC Canada's earnings from June 30, 2022 to the closing date accrued to RBC and were reflected in the acquired net assets on closing. For further details, refer to Note 6 of our 2024 Annual Consolidated Financial Statements.

As the fair values of HSBC Canada's fixed rate financial assets and liabilities are sensitive to changes in market interest rates, increases in interest rates prior to closing would have reduced the net fair value of the financial assets and liabilities to be acquired, which would have increased the goodwill recognized on closing and reduced our capital ratios. To manage this, we had previously de-designated certain interest rate swaps in cash flow hedging relationships such that future mark-to-market gains (losses) were recorded in net income, instead of Other comprehensive income (OCI), to mitigate closing capital ratio volatility. For the year ended October 31, 2024, we recognized \$222 million of mark-to-market losses in Non-interest income – Other on the swaps and \$91 million in Net interest income related to the reclassification of amounts previously accumulated in OCI, both of which are treated as specified items and reflected in Corporate Support. Subsequent to closing, we re-designated these interest rate swaps into cash flow hedging relationships. Adjusted results excluding specified items are non-GAAP measures. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section.

The following table provides details on the impact of the HSBC Canada transaction on our Personal Banking segment, Commercial Banking segment and consolidated results, and reflects revenue, PCL, non-interest expenses and income taxes associated with the acquired operations and clients, which include the acquired assets, assumed liabilities and employees with the exception of assets and liabilities relating to treasury and liquidity management activities (HSBC Canada results).

																		Table 2
		For the year ended October 31, 2024																
	Segment results – Personal Banking						Segment results – Commercial Banking				Consolidated results							
(Millions of Canadian dollars)		cluding HSBC Canada		HSBC inada		Total		cluding HSBC Canada	C	HSBC anada		Total	E	xcluding HSBC Canada		HSBC Inada		Total
Net interest income Non-interest income	\$	11,911 4,822	\$	527 82	\$	12,438 4,904	\$	5,308 1,194	\$	753 127	\$	6,061 1,321	\$	26,598 29,030	\$	1,355 361	\$	27,953 29,391
Total revenue PCL (1) Non-interest expense		16,733 1,745 7,117		609 57 368		17,342 1,802 7,485		6,502 671 2,238		880 304 274		7,382 975 2,512		55,628 2,861 33,529		1,716 371 721		57,344 3,232 34,250
Income before income taxes Income taxes		7,871 2,083		184 51		8,055 2,134		3,593 994		302 83		3,895 1,077		19,238 3,451		624 171		19,862 3,622
Net income	\$	5,788	\$	133	\$	5,921	\$	2,599	\$	219	\$	2,818	\$	15,787	\$	453	\$	16,240

<sup>(1)</sup> Segment results – Personal Banking and Segment results – Commercial Banking include initial PCL on purchased performing financial assets of \$44 million and \$142 million, respectively. Consolidated results include initial PCL on purchased performing financial assets of \$200 million, of which \$193 million relates to purchased performing loans.

# Defining and measuring success through total shareholder returns

Our focus is to maximize total shareholder returns (TSR) through the achievement of top half performance compared to our global peer group over the medium-term (3-5 years), which we believe reflects a longer-term view of strong and consistent financial performance.

Maximizing TSR is aligned with our three strategic goals discussed in the Vision and strategic goals section and we believe represents the most appropriate measure of shareholder value creation. TSR is a concept used to compare the performance of our common shares over a period of time, reflecting share price appreciation and dividends paid to common shareholders. The absolute size of TSR will vary depending on market conditions, and the bank's position reflects the market's perception of our overall performance relative to our peers over a period of time.

Financial performance objectives are used to measure our performance against our medium-term TSR objectives and are used as goals as we execute against our strategic priorities. We review and revise these financial performance objectives as economic, market and regulatory environments change. Our financial performance reflects the impact of specified items and the amortization of acquisition related intangibles.

The following table provides a summary of our 3-year and 5-year performance against our medium-term financial performance objectives:

Financial performance compared to our medium-term objectives		Table 3
Medium-term objectives (1)	<b>3-year</b> (2)	<b>5-year</b> (2)
Diluted EPS growth of 7% +	1%	5%
ROE of 16% +	15.0%	15.6%
Strong capital ratio (CET1) (3)	13.4%	13.3%
Dividend payout ratio 40% – 50%	49%	48%

<sup>(1)</sup> A medium-term (3-5 year) objective is considered to be achieved when the performance goal is met in either a 3- or 5-year period. These objectives assume a normal business environment and our ability to achieve them in a period may be adversely affected by the macroeconomic backdrop and the cyclical nature of the credit cycle.

Our 3-year and 5-year medium-term financial performance objectives will remain unchanged in fiscal 2025.

<sup>(2)</sup> Diluted EPS growth is calculated using a Compound Annual Growth Rate (CAGR). ROE, CET1 and dividend payout ratio are calculated using an average.

<sup>(3)</sup> The CET1 ratio is calculated using OSFI's CAR guideline. For further details on the CET1 ratio, refer to the Capital management section.

We compare our TSR to that of a global peer group approved by our Board of Directors (the Board). The global peer group consists of the following 9 financial institutions:

- Canadian financial institutions: Bank of Montreal, Canadian Imperial Bank of Commerce, Manulife Financial Corporation, National Bank of Canada, The Bank of Nova Scotia, and The Toronto-Dominion Bank.
- U.S. banks: JPMorgan Chase & Co. and Wells Fargo & Company.
- International banks: Westpac Banking Corporation.

Medium-term objectives – 3- and 5-year TSR vs. peer group average		Table 4
	3-year TSR (1)	5-year TSR (1)
Royal Bank of Canada	14%	14%
	Top half	Top half
Peer group average (excluding RBC)	11%	12%

(1) The 3- and 5-year annualized TSR are calculated based on our common share price appreciation as per the TSX closing market price plus reinvested dividends for the period October 31, 2021 to October 31, 2024 and October 31, 2019 to October 31, 2024.

Common share and dividend information					Table 5
For the year ended October 31	2024	2023	2022	2021	2020
Common share price (RY on TSX) – close, end of period	\$ 168.39	\$ 110.76	\$ 126.05	\$ 128.82	\$ 93.16
Dividends paid per share	5.60	5.34	4.96	4.32	4.26
Increase (decrease) in share price	52.0%	(12.1)%	(2.2)%	38.3%	(12.3)%
Total shareholder return	57.8%	(8.3)%	1.6%	43.8%	(8.4)%

#### Financial performance

#### Overview

#### 2024 vs. 2023

Net income of \$16,240 million was up \$1,628 million or 11% from last year. Diluted EPS of \$11.25 was up \$0.93 or 9% and ROE of 14.4% was up 10 bps. Our CET1 ratio was 13.2%, down 130 bps from last year.

Adjusted net income of \$17,430 million was up \$1,601 million or 10%. Adjusted diluted EPS of \$12.09 was up \$0.90 or 8% and adjusted ROE of 15.5% remained unchanged.

Our earnings were up from last year, primarily driven by higher results across all of our business segments. Prior year results reflect the impact of the Canada Recovery Dividend (CRD) and other tax related adjustments, as well as the favourable impact of certain deferred tax adjustments, both of which were treated as specified items and reported in Corporate Support. Results in the current year also reflect higher HSBC Canada transaction and integration costs, which is treated as a specified item, and unallocated costs in Corporate Support.

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

#### Adjusted results

Adjusted results exclude specified items and the after-tax impact of amortization of acquisition-related intangibles. Adjusted results are non-GAAP measures. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section.

# Impact of foreign currency translation

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

	Table 6
(Millions of Canadian dollars, except per share amounts)	2024 vs. 2023
Increase (decrease):	
Total revenue	\$ 310
PCL	6
Non-interest expense	219
Income taxes	(4)
Net income	89
Impact on EPS	
Basic	\$ 0.06
Diluted	0.06

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

		Table 7
(Average foreign currency equivalent of C\$1.00) (1)	2024	2023
U.S. dollar	0.736	0.741
British pound	0.575	0.599
Euro	0.677	0.689

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

#### Total revenue

		Table 8
(Millions of Canadian dollars, except percentage amounts)	2024	2023 (1)
Interest and dividend income Interest expense	\$ 104,951 76,998	\$ 86,991 61,862
Net interest income NIM	\$ 27,953 1.54%	\$ 25,129 1.50%
Insurance service result Insurance investment result (2) Trading revenue Investment management and custodial fees Mutual fund revenue Securities brokerage commissions Service charges Underwriting and other advisory fees Foreign exchange revenue, other than trading Card service revenue Credit fees Net gains on investment securities Income (loss) from joint ventures and associates Other	\$ 777 294 2,327 9,325 4,437 1,660 2,294 2,672 1,142 1,273 1,592 170 (16)	\$ 703 156 2,392 8,344 4,063 1,463 2,099 2,005 1,292 1,240 1,489 193 (219) 1,115
Non-interest income	\$ 29,391	\$ 26,335
Total revenue	\$ 57,344	\$ 51,464

Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.

# 2024 vs. 2023

Total revenue increased \$5,880 million or 11% from last year, mainly due to higher net interest income and investment management and custodial fees. Higher underwriting and other advisory fees, mutual fund revenue, and other revenue also contributed to the increase. The prior year also reflected impact of a specified item in income (loss) from joint ventures and associates. The impact of foreign exchange translation increased revenue by \$310 million. The inclusion of HSBC Canada revenue contributed \$1,716 million to total revenue.

Net interest income increased \$2,824 million or 11%, of which \$1,355 million reflects the inclusion of HSBC Canada net interest income. The remaining increase of \$1,469 million or 6% was largely due to average volume growth and higher spreads in both Personal Banking and Commercial Banking.

NIM was up 4 bps compared to last year, mainly driven by the benefit of higher interest rates across most of our business segments, favourable product mix shift in Personal Banking and the acquisition of HSBC Canada including the accretion of fair value adjustments. These factors were partially offset by competitive pricing pressures in Personal Banking and Commercial Banking and higher funding costs in Capital Markets.

Investment management and custodial fees increased \$981 million or 12%, mainly reflecting higher fee-based client assets reflecting market appreciation and net sales.

Mutual fund revenue increased \$374 million or 9%, largely due to higher fee-based client assets reflecting market appreciation and net sales in Wealth Management, and higher average mutual fund balances driving higher distribution fees in Personal Banking.

Underwriting and other advisory fees increased \$667 million or 33%, mainly due to higher debt origination across all regions and higher M&A activity across most regions.

Income (loss) from joint ventures and associates improved \$203 million, as the prior year included the impact of the specified item relating to impairment losses on our interest in an associated company in Wealth Management.

Other revenue increased \$329 million or 30%, mainly attributable to changes in the fair value of the hedges related to our U.S. share-based compensation plans, which was largely offset in Non-interest expense, as well as the impact of economic hedges. These factors were partially offset by the impact of management of closing capital volatility related to the HSBC Canada transaction, which is treated as a specified item.

<sup>(2)</sup> The 2023 restated results may not be fully comparable to the current period as we were not managing our asset and liability portfolios under IFRS 17.

#### Additional trading information

		Table 9
(Millions of Canadian dollars)	2024	2023
Net interest income (1) Non-interest income	\$ 1,742 2,327	\$ 1,510 2,392
Total trading revenue	\$ 4,069	\$ 3,902
Total trading revenue by product Interest rate and credit Equities Foreign exchange and commodities	\$ 2,371 817 881	\$ 2,528 604 770
Total trading revenue	\$ 4,069	\$ 3,902

Reflects net interest income arising from trading-related positions, including assets and liabilities that are classified or designated at fair value through profit or loss (FVTPL).

#### 2024 vs. 2023

Total trading revenue of \$4,069 million, which is comprised of trading-related revenue recorded in Net interest income and Non-interest income, increased \$167 million or 4% from last year, mainly due to higher equity trading revenue across all regions and higher foreign exchange trading revenue. This was partially offset by lower fixed income trading revenue across most regions.

# Provision for credit losses (1)

			Table 10
	For the ye	ear ei	nded
	October 31		October 31
(Millions of Canadian dollars, except percentage amounts)	2024		2023
Personal Banking (2)	\$ 399	\$	301
Commercial Banking (2)	260		68
Wealth Management (2)	(119)		154
Capital Markets	86		137
Corporate Support and other (3)	1		
PCL on performing loans	627		660
Personal Banking (2)	\$ 1,418	\$	978
Commercial Banking (2)	714		247
Wealth Management	148		175
Capital Markets	340		436
Corporate Support and other	-		
PCL on impaired loans (3)	2,620		1,836
PCL – Loans	3,247		2,496
PCL – Other (4)	(15)		(28)
Total PCL	\$ 3,232	\$	2,468
PCL on loans is comprised of:			
Retail	\$ 414	\$	295
Wholesale	213		365
PCL on performing loans	627		660
Retail	1,586		1,051
Wholesale	1,034		785
PCL on impaired loans	2,620		1,836
PCL – Loans	\$ 3,247	\$	2,496
PCL on loans as a % of average net loans and acceptances	0.35%		0.29%
PCL on impaired loans as a % of average net loans and			
acceptances	0.28%		0.21%

Information on loans represents loans, acceptances and commitments.

#### 2024 vs. 2023

Total PCL increased \$764 million or 31% from last year, mainly due to higher provisions in Commercial Banking and Personal Banking, partially offset by lower provisions in Wealth Management and Capital Markets. The PCL on loans ratio increased 6 bps.

PCL on performing loans decreased \$33 million or 5%, largely due to favourable changes to our macroeconomic forecast and scenario weights, partially offset by unfavourable changes in credit quality and the initial PCL on performing loans purchased in the HSBC Canada transaction.

PCL on impaired loans increased \$784 million or 43%, mainly due to higher provisions in Commercial Banking and Personal Banking, partially offset by lower provisions in Capital Markets.

Amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section. Includes PCL recorded in Corporate Support and Insurance.

PCL – Other includes amounts related to debt securities measured at fair value through other comprehensive income (FVOCI) and amortized cost, accounts receivable, and financial and purchased guarantees.

		Table 11
(Millions of Canadian dollars, except percentage amounts)	2024	2023 (1)
Salaries Variable compensation Benefits and retention compensation Share-based compensation	\$ 8,878 8,838 2,408 959	\$ 8,478 7,608 2,139 628
Human resources Equipment Occupancy Communications Professional fees Amortization of other intangibles Other	21,083 2,537 1,805 1,369 2,525 1,549 3,382	18,853 2,381 1,619 1,261 2,171 1,471 3,057
Non-interest expense Efficiency ratio (2) Efficiency ratio – adjusted (2), (3)	\$ 34,250 59.7% 57.1%	\$ 30,813 59.9% 58.2%

- Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.
- (2) See Glossary for composition of these measures.
- (3) This is a non-GAAP ratio. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section.

#### 2024 vs. 2023

Non-interest expense increased \$3,437 million or 11% from last year, of which \$721 million reflects the inclusion of HSBC Canada non-interest expense. The remaining increase of \$2,716 million or 9% was primarily due to higher variable compensation costs commensurate with increased revenue, higher HSBC Canada transaction and integration costs, which is treated as a specified item, as well as the change in the fair value of our U.S. share-based compensation plans, which was largely offset in Other revenue. Higher staff costs, the impact of foreign exchange translation and ongoing technology investments also contributed to the increase. These factors were partially offset by reduced expenses following the sale of RBC Investor Services.

Our efficiency ratio of 59.7% decreased 20 bps from 59.9% last year. Our adjusted efficiency ratio of 57.1% decreased 110 bps from 58.2% last year.

Adjusted efficiency ratio is a non-GAAP ratio. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section.

# Income and other taxes

		Table 12
(Millions of Canadian dollars, except percentage amounts)	2024	2023 (1)
Income taxes	\$ 3,622	\$ 3,571
Other taxes		
Value added and sales taxes	680	597
Payroll taxes	1,060	990
Capital taxes	47	55
Property taxes	155	144
Insurance premium taxes	45	35
Business taxes	61	82
	2,048	1,903
Total income and other taxes	\$ 5,670	\$ 5,474
Income before income taxes	\$ 19,862	\$ 18,183
Effective income tax rate	18.2%	19.6%
Effective total tax rate (2)	25.9%	27.3%
Adjusted results (3), (4)		
Income taxes – adjusted	\$ 3,984	\$ 3,317
Income before income taxes – adjusted	21,414	19,146
Effective income tax rate – adjusted	18.6%	17.3%

- (1) Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.
- 2) Total income and other taxes as a percentage of income before income taxes and other taxes.
- (3) These are non-GAAP measures. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section.
- (4) See Glossary for composition of these measures.

#### 2024 vs. 2023

Income tax expense increased \$51 million or 1% from last year, primarily due to the impact of certain deferred tax adjustments in the prior year, which was treated as a specified item, higher income before income taxes and the net impact of tax adjustments. These factors were partially offset by the impact of the CRD and other tax related adjustments, which was treated as a specified item in the prior year, and the impact of changes in earnings mix. Adjusted income tax expense increased \$667 million or 20%.

The effective income tax rate of 18.2% decreased 140 bps, primarily due to the impact of the CRD and other tax related adjustments noted above. This factor was partially offset by the impact of certain prior year deferred tax adjustments noted above, the net impact of tax adjustments and the impact of changes in earnings mix. Adjusted effective income tax rate of 18.6% increased 130 bps.

Other taxes increased \$145 million or 8% from last year, primarily due to higher value added and sales taxes commensurate with increased purchase activity and higher payroll taxes driven by higher staff-related costs.

For further details on specified items, including a reconciliation, refer to the Key performance and non-GAAP measures section.

#### Client assets

#### Assets under administration

AUA are assets administered by us which are beneficially owned by our clients. We provide services that are administrative in nature, including safekeeping, collecting investment income, settling purchase and sale transactions, and record keeping. Underlying investment strategies within AUA are determined by our clients and generally do not impact the administrative fees that we receive. Administrative fees can be impacted by factors such as asset valuation level changes from market movements, types of services administered, transaction volumes, geography and client relationship pricing based on volumes or multiple services.

Our Wealth Management business is the primary business segment that has AUA with approximately 94% of total AUA, mainly in the Investor Services line of business with approximately 54% of AUA, as at October 31, 2024. The Personal Banking business has approximately 5% of total AUA.

#### 2024 vs. 2023

AUA increased \$628 billion or 14% from last year, primarily due to market appreciation.

The following table summarizes AUA by geography and asset class:

AUA by geographic mix and asset class		Table 13
(Millions of Canadian dollars)	2024	2023
Canada (1)		
Money market	\$ 32,800	\$ 34,900
Fixed income	784,600	705,800
Equity	701,800	770,500
Multi-asset and other	1,458,300	1,045,800
Total Canada	2,977,500	2,557,000
U.S. (1)		
Money market	36,600	31,600
Fixed İncome	144,600	131,600
Equity	335,900	271,600
Multi-asset and other	432,900	326,500
Total U.S.	950,000	761,300
Other International (1)		
Money market	19,200	19,100
Fixed İncome	130,800	130,000
Equity	425,600	404,100
Multi-asset and other	462,400	466,500
Total International	1,038,000	1,019,700
Total AUA	\$ 4,965,500	\$ 4,338,000

<sup>(1)</sup> Geographic information is based on the location from where our clients are serviced.

#### Assets under management

AUM are assets managed by us which are beneficially owned by our clients. Management fees are paid by the investment funds and other clients for the investment capabilities of an investment manager and can also cover administrative services. Management fees may be calculated daily, monthly or quarterly as a percentage of the AUM, depending on the distribution channel, product and investment strategies. In general, equity strategies carry a higher fee rate than fixed income or money market strategies. Fees are also impacted by asset mix and relationship pricing for clients using multiple services. Higher risk assets generally produce higher fees, while clients using multiple services can take advantage of synergies which reduce the fees they are charged. Certain funds may have performance fee arrangements where fees are recorded when certain benchmarks or performance targets are achieved. These factors could lead to differences in fees earned by product and therefore net return by asset class may vary despite similar average AUM. Our Wealth Management segment is the primary business segment that has AUM with approximately 99% of total AUM as at October 31, 2024.

#### 2024 vs. 2023

AUM increased \$275 billion or 26% from last year, primarily due to market appreciation.

The following table presents the change in AUM for the year ended October 31, 2024:

Client assets – AUM		Table 14
	2024	2023
(Millions of Canadian dollars)	Multi-asset  Money market Fixed income Equity and other Total	Total
AUM, beginning balance Institutional inflows Institutional outflows Personal flows, net	\$ 40,600 \$ 217,300 \$ 130,200 \$ 679,400 \$ 1,067,500 214,100 74,000 9,300 21,000 318,400 (217,000) (48,000) (12,600) (17,900) (295,500) 800 5,700 2,700 10,600 19,800	239,100
Total net flows Market impact Acquisition/dispositions Foreign exchange	(2,100)     31,700     (600)     13,700     42,700       1,600     24,900     37,500     137,900     201,900       2,300     800     7,600     9,900     20,600       200     900     300     8,200     9,600	23,500 27,900 - 16,400
Total market, acquisition/dispositions and foreign exchange impact	4,100 26,600 45,400 156,000 232,100	44,300
AUM, balance at end of year	\$ 42,600 \$ 275,600 \$ 175,000 \$ 849,100 \$ 1,342,300	\$ 1,067,500

# **Business segment results**

#### Results by business segments

												Table 15
							2024					2023 (1)
(Millions of Canadian dollars, except percentage amounts)	1	Personal Banking (2)	ommercial Banking (2)	M	Wealth Management (2)	ln	surance	M	Capital arkets (2), (3)	Corporate upport (3)	Total	Total
Net interest income Non-interest income	\$	12,438 4,904	\$ 6,061 1,321	\$	4,979 14,647	\$	- 1,224	\$	3,183 8,829	\$ 1,292 (1,534)	\$ 27,953 29,391	\$ 25,129 26,335
Total revenue PCL Non-interest expense		17,342 1,802 7,485	7,382 975 2,512		19,626 29 15,312		1,224 2 285		12,012 424 7,016	(242) - 1,640	57,344 3,232 34,250	51,464 2,468 30,813
Income before income taxes Income taxes		8,055 2,134	3,895 1,077		4,285 863		937 208		4,572 (1)	(1,882) (659)	19,862 3,622	18,183 3,571
Net income	\$	5,921	\$ 2,818	\$	3,422	\$	729	\$	4,573	\$ (1,223)	\$ 16,240	\$ 14,612
ROE (4)		24.8%	18.5%		14.4%		35.3%		14.2%	n.m.	14.4%	14.3%
Average assets	\$	528,200	\$ 165,400	\$	176,200	\$	26,400	\$	1,134,300	\$ 78,000	\$ 2,108,500	\$ 2,004,500

- (1) Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.
- (2) On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, and are included in our Personal Banking, Commercial Banking, Wealth Management and Capital Markets segments. For further details, refer to the Key corporate events section.
- (3) Net interest income, Non-interest income, Total revenue, Income before income taxes, and Income taxes are presented in Capital Markets on a taxable equivalent basis (teb). The teb adjustment is eliminated in the Corporate Support segment. For a further discussion, refer to the How we measure and report our business segments section.
- (4) For further details, refer to the Key performance and non-GAAP measures section.
- n.m. not meaningful

# How we measure and report our business segments

Our management reporting framework is intended to measure the performance of each business segment as if it were a standalone business and reflects the way that the business segment is managed. This approach is intended to ensure that our business segments' results include all applicable revenue and expenses associated with the conduct of their business and depicts how management views those results.

#### Key methodologies

The following outlines the key methodologies and assumptions used in our management reporting framework. These are periodically reviewed by management to ensure they remain valid. Effective November 1, 2023, we adopted IFRS 17 Insurance Contracts (IFRS 17). Comparative amounts have been restated from those previously presented. For further details, refer to Note 2 of our 2024 Annual Consolidated Financial Statements. Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing moved from the previous Personal & Commercial Banking segment to the Wealth Management segment. For further details, refer to the About Royal Bank of Canada section.

#### Expense and tax allocation

To ensure that our business segments' results include expenses associated with the conduct of their business, we allocate costs incurred or services provided by Technology & Operations and Functions, which are directly undertaken or provided on the business segments' behalf. For other costs not directly attributable to our business segments, including overhead costs and other indirect expenses, we use our management reporting framework for allocating these costs to each business segment in a manner that is intended to reflect the underlying benefits.

#### Capital attribution

Our management reporting framework also determines the attribution of capital to our business segments in a manner that is intended to consistently measure and align economic costs with the underlying benefits and risks associated with the activities of each business segment. The amount of capital assigned to each business segment is referred to as attributed capital. Unattributed capital and associated amounts are reported in Corporate Support. Effective November 1, 2023, we prospectively revised our attributed capital methodology to include the allocation of leverage to our business segments to further align our allocation processes with evolving regulatory capital requirements. For Insurance, the allocation of capital remains unchanged and continues to be based on fully diversified economic capital. For further information, refer to the Capital management section.

### Funds transfer pricing

Funds transfer pricing refers to the pricing of intra-company borrowing or lending for management reporting purposes. We employ a funds transfer pricing process to enable risk-adjusted management reporting of segment results. This process determines the costs and revenue for intra-company borrowing and lending of funds after taking into consideration our interest rate risk and liquidity risk management objectives, as well as applicable regulatory requirements.

#### Provisions for credit losses

PCL is recorded to recognize expected credit losses on all financial assets, except for financial assets classified or designated as FVTPL and equity securities designated as FVOCI, which are not subject to impairment assessment. For details on our accounting policy on Allowance for credit losses (ACL), refer to Note 2 of our 2024 Annual Consolidated Financial Statements.

PCL is included in the results of each business segment to fully reflect the appropriate expenses related to the conduct of each business segment.

In addition to the key methodologies described above, the following components of our management reporting framework also impact how our business segments are managed and reported:

- Wealth Management results include disclosure in U.S. dollars, primarily for U.S. Wealth Management (including City National Bank ("City National")) as we review and manage the results of this business largely in this currency.
- Capital Markets results are reported on a teb basis, which grosses up total revenue from certain tax-advantaged sources (Canadian taxable corporate dividends received on or before December 31, 2023 and the U.S. tax credit investment business) to their effective taxable equivalent value with a corresponding offset recorded in the provision for income taxes. We record the elimination of the teb adjustments in Corporate Support. We believe these adjustments are useful and reflect how Capital Markets manages its business, since it enhances the comparability of revenue and related ratios across taxable revenue and our principal tax-advantaged sources of revenue. The use of teb adjustments and measures may not be comparable to similar GAAP measures or similarly adjusted amounts disclosed by other financial institutions. For further details on the elimination of the availability of the dividend received deduction for Canadian taxable corporate dividends after December 31, 2023, refer to the Legal and regulatory environment risk section.
- Corporate Support results include all enterprise level activities that are undertaken for the benefit of the organization that are not allocated to our five business segments, such as certain treasury and liquidity management activities, including amounts associated with unattributed capital, and consolidation adjustments, including the elimination of the teb gross-up amounts. In addition, we record gains (losses) on economic hedges of our U.S. Wealth Management (including City National) share-based compensation plans, which are reflected in revenue, and related variability in share-based compensation expense driven by changes in the fair value of liabilities relating to these plans in Corporate Support as we believe this presentation more closely aligns with how we view business performance and manage the underlying risks.

# Key performance and non-GAAP measures

# Performance measures

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. Certain financial metrics, including ROE, do not have a standardized meaning under generally accepted accounting principles (GAAP) and may not be comparable to similar measures disclosed by other financial institutions.

#### Return on common equity

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.

Our consolidated ROE calculation is based on net income available to common shareholders divided by total average common equity for the period. Business segment ROE calculations are based on net income available to common shareholders divided by average attributed capital for the period. For each segment, with the exception of Insurance, average attributed capital includes the capital and leverage required to underpin various risks as described in the Capital management section and amounts invested in goodwill and intangibles and other regulatory deductions. For Insurance, the allocation of capital is based on fully diversified economic capital.

The attribution of capital involves the use of assumptions, judgments and methodologies that are regularly reviewed and revised by management as deemed necessary. Changes to such assumptions, judgments and methodologies can have a material effect on the business segment ROE information that we report. Other companies that disclose information on similar attributions and related return measures may use different assumptions, judgments and methodologies.

The following table provides a summary of our ROE calculations:

Calculation of ROE						Table 16			
		2024							
(Millions of Canadian dollars, except percentage amounts)	Personal Banking (2)	Commercial Banking (2)	Wealth Management (2)	Capital Co Insurance Markets (2)	orporate Support Total	Total			
Net income available to common shareholders	\$ 5,842	\$ 2,775	\$ 3,355	\$ 724 \$ 4,483 \$	(1,271) \$ 15,908	\$ 14,369			
Total average common equity (3), (4)	23,600	15,000	23,250	2,050 31,650	15,100 110,650	100,400			
ROE	24.8%	18.5%	14.4%	35.3% 14.2%	n.m. 14.4%	14.3%			

- (1) Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.
- (2) Effective November 1, 2023, our attributed capital methodology incorporates leverage requirements to allocate capital to our business segments. For further details on changes to our attributed capital methodology, refer to the How we measure and report our business segments section.
- Total average common equity represents rounded figures.
- (4) The amounts for the segments are referred to as attributed capital.
- n.m. not meaningful

#### Non-GAAP measures

We believe that certain non-GAAP measures (including non-GAAP ratios) 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 year ended October 31, 2024 with the results from last year. 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.

#### Adiusted results

We believe that providing adjusted results as well as certain measures and ratios excluding the impact of the specified items discussed below and amortization of acquisition-related intangibles enhances comparability with prior periods and enables readers to better assess trends in the underlying businesses.

Our results for all reported periods were adjusted for the following specified item:

HSBC Canada transaction and integration costs.

Our results for the current year were adjusted for the following specified item:

 Management of closing capital volatility related to the HSBC Canada transaction. For further details, refer to the Key corporate events section.

Our results for the prior year were adjusted for the following specified items:

- Impairment losses on our interest in an associated company.
- Certain deferred tax adjustments: reflects the recognition of deferred tax assets relating to realized losses in City National associated with the intercompany sale of certain debt securities.
- CRD and other tax related adjustments: reflects the impact of the CRD and the 1.5% increase in the Canadian corporate tax rate applicable to fiscal 2022, net of deferred tax adjustments, which were announced in the Government of Canada's 2022 budget and enacted in the first quarter of 2023.

#### Consolidated results, reported and adjusted

The following table provides a reconciliation of reported results to our adjusted results and illustrates the calculation of adjusted measures presented. The adjusted results and measures presented below are non-GAAP measures or ratios.

		Table 17
(Millions of Canadian dollars, except per share, number of and percentage amounts)	2024	2023 (1)
Total revenue PCL Non-interest expense Income before income taxes Income taxes	\$ 57,344 3,232 34,250 19,862 3,622	\$ 51,464 2,468 30,813 18,183 3,571
Net income Net income available to common shareholders	\$ 16,240 15,908	14,612 14,369
Average number of common shares (thousands) Basic earnings per share (in dollars)	\$ 1,411,903 11.27	\$ 1,391,020 10.33
Average number of diluted common shares (thousands) Diluted earnings per share (in dollars)	\$ 1,413,755 11.25	\$ 1,392,529 10.32
ROE Effective income tax rate	14.4% 18.2%	14.3% 19.6%
Total adjusting items impacting net income (before-tax)  Specified item: HSBC Canada transaction and integration costs (2), (3)  Specified item: Management of closing capital volatility related to the HSBC Canada transaction (2), (4)	\$ 1,552 960 131	\$ 963 380
Specified item: Impairment losses on our interest in an associated company (5) Amortization of acquisition-related intangibles (6)	- 461	242 341
Total income taxes for adjusting items impacting net income Specified item: HSBC Canada transaction and integration costs (2) Specified item: Management of closing capital volatility related to the HSBC Canada	\$ 362 201	\$ (254) 78
transaction (2), (4) Specified item: Certain deferred tax adjustments (2) Specified item: Impairment losses on our interest in an associated company (5) Specified item: CRD and other tax related adjustments (2), (7)	36 - - -	578 65 (1,050)
Amortization of acquisition-related intangibles (6)	125	75
Adjusted results Income before income taxes – adjusted Income taxes – adjusted Net income – adjusted Net income available to common shareholders – adjusted (8)	\$ 21,414 3,984 17,430 17,098	\$ 19,146 3,317 15,829 15,586
Average number of common shares (thousands) Basic earnings per share (in dollars) – adjusted	\$ 1,411,903 12.11	\$ 1,391,020 11.21
Average number of diluted common shares (thousands) Diluted earnings per share (in dollars) – adjusted	\$ 1,413,755 12.09	\$ 1,392,529 11.19
ROE – adjusted Effective income tax rate – adjusted	15.5% 18.6%	15.5% 17.3%
Adjusted efficiency ratio		
Total revenue Add specified item: Management of closing capital volatility related to the HSBC Canada transaction (before-tax) (2), (4)	\$ 57,344 131	\$ 51,464
Add specified item: Impairment losses on our interest in an associated company (5) <b>Total revenue – adjusted</b> (8)  Non-interest expense	\$ - 57,475 34,250	242 51,706 30,813
Less specified item: HSBC Canada transaction and integration costs (before-tax) (2) Less: Amortization of acquisition-related intangibles (before-tax) (6) Non-interest expense – adjusted (8)	\$ 960 461 32,829	\$ 380 341 30,092
Efficiency ratio – adjusted	59.7% 57.1%	59.9% 58.2%

- (1) Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.
- (2) These amounts have been recognized in Corporate Support.
- (3) As at October 31, 2024, the cumulative HSBC Canada transaction and integration costs (before-tax) incurred were \$1.3 billion and it is currently estimated that an additional \$0.2 billion will be incurred, for a total of approximately \$1.5 billion.
- (4) For the year ended October 31, 2024, we included management of closing capital volatility related to the acquisition of HSBC Canada as a specified item for non-GAAP measures and non-GAAP ratios. Refer to the Key corporate events section for further details.
- (5) During the fourth quarter of 2023, we recognized impairment losses on our interest in an associated company. This amount was recognized in Wealth Management.
- (6) Represents the impact of amortization of acquisition-related intangibles (excluding amortization of software), and any goodwill impairment.
- (7) The impact of the CRD and other tax related adjustments does not include \$0.2 billion recognized in other comprehensive income.
- (8) See Glossary for composition of these measures.

Segment results, reported and adjusted
The following table provides a reconciliation of Wealth Management reported results to our adjusted results. The adjusted results and measures presented below are non-GAAP measures or ratios.

Wealth Management			Table 18
		2023 (1), (2)	
		Item excluded	
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	As reported	Specified item (3)	Adjusted
Total revenue	\$ 18,161	\$ 242	\$ 18,403
PCL	328	_	328
Non-interest expense	14,387	_	14,387
Income before income taxes	3,446	242	3,688
Net income	\$ 2,693	\$ 177	\$ 2,870
Net income available to common shareholders	\$ 2,637	\$ 177	\$ 2,814
Total average common equity (4), (5)	24,200		24,200
Revenue by business			
U.S. Wealth Management (including City National)	\$ 7,969	\$ 242	\$ 8,211
U.S. Wealth Management (including City National) (US\$ millions)	5,908	175	6,083
Key ratios			
ROE	10.9%		11.6%
Pre-tax margin (6)	19.0%		20.0%

There were no specified items for the year ended October 31, 2024.

 $Certain\ amounts\ have\ been\ revised\ from\ those\ previously\ presented\ to\ conform\ to\ our\ new\ basis\ of\ segment\ presentation.$  For\ further\ details, refer\ to\ the\ About\ Royal\ and the previously\ presented\ to\ conform\ to\ our\ new\ basis\ of\ segment\ presentation. (2) Bank of Canada section.

Impairment losses on our interest in an associated company.

Total average common equity represents rounded figures.

<sup>(5)</sup> The amounts for the segments are referred to as attributed capital.

Pre-tax margin is defined as Income before income taxes divided by Total revenue. Adjusted pre-tax margin is calculated in the same manner, using adjusted income before income taxes and adjusted total revenue.

#### **Personal Banking**

Personal Banking provides a broad suite of financial products and services to retail clients for their day-to-day banking, investing and financing needs. We are focused on building deep and meaningful relationships with our clients, underscored by the delivery of exceptional client experiences, the breadth of our product suite, our depth of expertise and the features of our digital solutions.

# ~14.7 million

Number of Personal Banking – Canada clients

# #1

Ranking in market share for all key retail products<sup>1</sup>

38,642

Employees (FTE)2

#### Revenue by business lines



- 93% Personal Banking Canada
- 7% Caribbean & U.S. Banking

We operate through two businesses – Personal Banking – Canada and Caribbean & U.S. Banking. Personal Banking – Canada serves our home market in Canada. We have the largest branch network, the most ATMs, and one of the largest mobile sales forces across Canada along with market-leading digital capabilities. In Caribbean & U.S. Banking, we offer a broad range of financial products and services in targeted markets.

In Canada, we compete with other Schedule 1 banks, independent trust companies, foreign banks, credit unions, caisses populaires and auto financing companies, as well as emerging entrants to the financial services industry.

In the Caribbean, our competition includes banks, emerging digital banks, trust companies and investment management companies serving retail and corporate clients, as well as public institutions. In the U.S., we compete primarily with other Canadian banking institutions that have U.S. operations.

# 2024 Operating environment

- > Following months of record high interest rates, the BoC began to loosen monetary policy in June 2024 in response to easing inflationary pressures. As a result of the higher rate environment throughout 2024, we saw sustained volume growth as well as an increasing NIM, carrying through from 2023.
- > Residential real estate markets have been impacted by the offsetting impacts of high population growth supporting demand, and the negative impact on housing affordability from high interest rates and a softening labour market. With interest rates stabilizing in the first half of the year at peak cycle levels and declines in the second half of the year, housing activity remained stable with mortgage originations up from the prior year. National composite house price measures have changed little from the end of calendar 2023.
- > In an environment where clients have had lower purchasing power due to higher interest rates and inflation, and as consumer spending continues to show signs of softness, credit card purchase volumes exhibited strong growth primarily through robust card account acquisition and client engagement strategies.
- > We recorded significant growth in term deposit products, reflecting client preference for low-risk products at higher yields, driven by the BoC's monetary policy. Although the BoC began cutting interest rates in June 2024, we continue to experience growth in term deposit products, as well as sustained leadership in overall deposit volumes.
- > We have observed favourable equity market conditions throughout fiscal 2024, which has driven higher average mutual fund balances.
- > Clients continued to demonstrate a preference for digital offerings, augmented by experienced advisors, increasing our capacity to deliver personalized advice and an exceptional client experience.
- > The credit environment was impacted by slowing economic growth, rising unemployment rates and elevated interest rates, resulting in higher provisions on impaired and performing loans.
- > Non-interest expense reflects investments in staff, the integration of HSBC Canada, ongoing investments in technology and marketing costs associated with new client acquisition campaigns.
- > The Caribbean region's economy continued to expand at a healthy pace in 2024, propelled by robust tourism performance alongside sustained foreign investment inflows largely targeting tourism developments and residential real estate. The inflation rate in the region further subsided as the pass-through from higher prices on imported goods and services receded. Our Caribbean Banking business benefitted from higher interest rates, as well as volume growth in loans, and we continued to invest in growing the franchise.
- > In our U.S. Banking business, net interest income benefitted from solid loan and deposit growth, as well as the impact of higher interest rates.

Market share is calculated using most current data available from OSFI (M4), Investment Funds Institute Canada (IFIC) and Canadian Bankers Association (CBA), and is as at August 2024 and June 2024, respectively.

Includes FTE for all shared services across Personal Banking and Commercial Banking, for which the Non-interest expenses are allocated to both Personal Banking and Commercial Banking.

#### OLID STRATECY

# Accelerate our growth and deepen relationships

#### PROGRESS IN 2024

Acquired and integrated HSBC Canada's retail clients, of which a significant percentage are affluent clients, well-positioning RBC to be the bank of choice for newcomers to Canada and retail clients who need global capabilities. Existing RBC retail clients are also benefitting from new product and service capabilities, including foreign currency accounts

Demonstrated growth in client acquisition volumes driven by robust value propositions, such as RBC Vantage<sup>TM</sup>, client acquisition in the newcomer segment and partnership referrals

Announced the launch of Global Credit Connect with Nova Credit, a cross-border credit bureau, to help eligible RBC newcomer clients leverage their international credit history in Canada, which can then be used in applications for RBC credit products and solutions.

Expanded our strategic partnership with METRO Inc., one of Canada's leading Canadian food retailers, into Ontario. METRO's Moi‡ Rewards program is now linked with Avion Rewards, our loyalty and consumer engagement platform. In addition, we announced a new strategic loyalty partnership between Avion Rewards and Pattison Food Group's More Rewards‡, one of Western Canada's leading loyalty programs from Canada's largest Western-based provider of food and health products

Avion Rewards was recognized for a second consecutive year as the International Loyalty Program of the Year (Americas) at the 2024 International Loyalty Awards. This award recognizes the highest level of excellence and innovation in loyalty programs on a global scale. Avion Rewards also won top honours at the 2024 Loyalty360 Awards, including Platinum (top spot) for "Brand-to-Brand Partnerships"

#### **PRIORITIES IN 2025**

Continue to deepen relationships with HSBC Canada clients to facilitate growth

Focus on engaging key high-growth client segments and empowering our advisors to build new and deeper relationships with superior advice to drive industry-leading volume growth

Enable unparalleled value for consumers through a best-in-class loyalty program

Establish additional key partnerships to continue to drive new client acquisition and deepen relationships through added value for our clients

Continue to build a suite of best-in-class value propositions, digital experiences and Beyond Banking to accelerate client acquisition, engaging Canadians earlier, more often and in more compelling ways

# Transform sales, advice and service, while digitizing to unlock productivity

We are the first Canadian bank to win The Digital Banker's Digital CX Award for Excellence in Omni-Channel Customer Experiences. Regardless of the client's channel of choice, RBC was recognized for empowering its clients to start banking swiftly, conveniently and safely. The award builds upon global recognition from Celent as Model Bank for Digital Onboarding and further establishes RBC as a global leader in creating seamless account opening experiences for its clients

Received highest ranking in client satisfaction in the J.D. Power 2024 Canada Banking Mobile App Satisfaction Study, Canada Online Banking Satisfaction Study and Canada Retail Banking Satisfaction Study

Secured a win for all 11 Ipsos 2024 Financial Service Excellence Awards among the Big 5 banks, including four solo wins in "Recommend to Friends or Family (Net Promoter Score)", "Financial Planning & Advice", "ATM Banking Excellence" and "Online Banking Excellence"

Ranked third overall and #1 in Canada for AI maturity among 50 global financial institutions in the Evident AI index which evaluates financial institutions on talent, innovation, leadership and transparency. RBC was one of only two banks to rank in the top 10 across all four pillars and improved its year-over-year ranking in the two heaviest-weighted pillars – Talent and Innovation

Provide flexibility by continuing to deliver anytime, anywhere solutions to our clients across all channels

Lead in mobile capabilities and enable fulfillment of servicing through digital channels with access to advisors to help clients on their chosen path of interaction

Continue to reimagine our branch network to meet the evolving needs of our clients

Continuously upskill our expert advisor network to deliver more personalized insights and address complex advice needs for a superior client experience

Leverage digital and agile methods to drive faster delivery of products and services while improving productivity and efficiency

OUR STRATEGY	PROGRESS IN 2024	PRIORITIES IN 2025
Support sustainable communities	Continued to support Canadians on the adoption of electric vehicles (EV) through collaborations with Tesla, Lucid and Vinfast, Avion Rewards campaign incentives and educational support along the EV buying and ownership journey  Supported the financing of new homes through the green home mortgage program and explored opportunities to support energy efficiency improvements in homes  Increased employee engagement and awareness on the impacts of climate change through a leadership summit, and establishing additional climate champion networks in three new regions  Announced plans to accelerate the retrofit of the Canadian branch network where we are responsible for HVAC by investing \$35 million over three years (2025-2027) in the first phase through the installation of energy efficient, low-carbon heating and cooling systems such as heat pumps, which will replace aging heating, ventilation and air conditioning equipment  Expanded Mydoh‡ to Quebec and went subscription-free to continue helping parents across Canada educate youth about money management	Continue to focus on opportunities to support Canadians in achieving their climate goals, including building upon our existing portfolio of products, services and advice  Continue to focus on increasing employee awareness, knowledge and engagement on climate initiatives to better support clients on their environmental journey Continue to support the financial wellbeing of Canadians by enabling individuals to build confidence, establish financial security and reach their goals through dedicated products, services and partnerships
Attract, grow and retain future- ready Talent	Continued to engage employees through awareness and development seminars, including targeted initiatives to develop and retain high-performing employees  Invested in skills development, elevating performance and fostering a culture of inclusive leadership through programs, such as people manager masterclasses, reskilling programs and learning series  Strengthened our culture of inclusion and belonging through initiatives that provide access to opportunities for growth and development, including: Canadian Banking Women's Forum, Empower Program (BIPOC and People with Disabilities) and Indigenous Development Program	Coach and enable our employees to grow and develop skills to thrive  Empower teams to deliver value to our clients and shareholders, and drive our strategic ambitions  Develop leaders who create the right conditions for a high-performance culture to unlock the best of RBC  Foster inclusive access to development opportunities and further strengthen our culture of belonging
In the Caribbean	Continued our Investing for Growth strategy by expanding product offerings while progressing initiatives to simplify and digitize operational processes to deliver an enhanced client and employee experience	Prioritize and accelerate the delivery of key initiatives in our Investing for Growth strategy that will enhance the employee and client experience as we expand products and prioritize resources to modernize, simplify and streamline our business
In the U.S.	Continued to drive business growth through deeper integration with Canadian franchise product, channel and marketing strategies  Ongoing automation and development of digital tools to enhance scalability, simplify processes and improve the client experience	Further align with Canadian product and channel experiences to support client acquisition and anchoring relationships, including clients from the HSBC Canada transaction  Continued transformation of sales and service channels to streamline client acquisition and enhance acquisition and servicing processes

# Outlook

The BoC has begun lowering interest rates, but the lagged impact of earlier increases continues to slow economic growth in Canada. Rapid population growth driven by immigration has helped support total GDP growth and consumer spending, but GDP has been declining on a per-capita basis, and population growth is expected to slow sharply in calendar 2025 due to planned reductions in federal government immigration levels. GDP growth is expected to remain slow in calendar 2025 with strengthening per-capita output growth in the second half of the year offset by slower expected population increases. The weakening economy signals that inflation is likely to continue to slow, prompting further interest rate reductions from the BoC. We expect the continued benefit of our structural hedges to reduce volatility in NIM from short-term rate movements, while varying levels of competitiveness on mortgages and GICs may generate pressures on margins.

In the Caribbean, the speed of economic growth in 2025 is anticipated to moderate further as the region's economies converge to their medium-term potential. Climate vulnerability, notably hurricane shocks, remain an ever-present risk, while worsening geopolitical conflicts and geoeconomic fragmentation have the potential to further impede growth prospects in the region.

In the U.S., the resilience of U.S. GDP growth supported by a large government budget deficit is expected to limit downward pressure on labour markets and inflation in calendar 2025. We anticipate this will lead to fewer and smaller interest rate reductions from the Fed than from the BoC.

We will continue to pursue industry-leading growth and deepen client relationships to meet the evolving needs of our clients.

For further details on our general economic review and outlook, refer to the Economic, market and regulatory review and outlook section.

Personal Banking				Table 19
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)		2024 (1)		2023 (2)
Net interest income	\$	12,438	\$	10,945
Non-interest income		4,904		4,526
Total revenue		17,342		15,471
PCL on performing assets		392		301
PCL on impaired assets		1,410		963
PCL		1,802		1,264
Non-interest expense Income before income taxes		7,485		6,813 7,394
Net income	\$	8,055 5,921	\$	7,394 5,418
	ې	3,721	ې	3,410
Revenue by business	\$	16,206	ċ	1 / / / / 1
Personal Banking – Canada Caribbean & U.S. Banking	>	1,136	\$	14,401 1,070
-		1,130		1,070
Key ratios		2.4.00/		20.00/
ROE (3)		24.8%		28.9%
NIM Efficiency ratio		2.43% 43.2%		2.30% 44.0%
Efficiency ratio Operating leverage (4)		2.2%		1.3%
		2.270		1.370
Selected balance sheet information		=00.000		407.000
Average total assets	\$	528,200	\$	487,900
Average total earning assets, net		512,300		475,500
Average loans and acceptances, net Average deposits		502,700 404,600		465,700 350,300
		404,000		330,300
Other information		255 400		205 200
AUA (5), (6)	\$	255,400	\$	205,200
Average AUA		235,500		213,300
AUM (6) Number of employees (FTE) (7)		6,400 38,642		5,900 37,017
		30,042		37,017
Credit information		0.200/		0.210/
PCL on impaired loans as a % of average net loans and acceptances		0.28%		0.21%
Other selected information – Personal Banking – Canada				
Net income	\$	5,550	\$	5,074
NIM		2.35%		2.22%
Efficiency ratio		41.6%		42.4%
Operating leverage		2.3%		0.8%

- (1) On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, which impacted results, balances and ratios for 2024. For further details, refer to the Key corporate events section.
- Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing moved from the previous Personal & Commercial Banking segment to the Wealth Management segment. Amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
   Effective November 1, 2023, our attributed capital methodology incorporates leverage requirements to allocate capital to our business segments. For further details on changes to our attributed capital methodology, refer to the How we measure and report our business segments section.
- See Glossary for composition of this measure.
- (5) AUA includes securitized residential mortgages and credit card loans as at October 31, 2024 of \$15 billion and \$6 billion, respectively (October 31, 2023 \$13 billion and \$7 billion).
- (6) Represents year-end spot balances.
- (7) Includes FTE for all shared services across Personal Banking and Commercial Banking, for which the Non-interest expenses are allocated to both Personal Banking and Commercial Banking.

## Financial performance 2024 vs. 2023

Net income increased \$503 million or 9% from last year. The inclusion of HSBC Canada results increased net income by \$133 million. Excluding HSBC Canada results, net income increased \$370 million or 7%, primarily driven by higher net interest income reflecting higher spreads and average volume growth of 6% in Personal Banking – Canada, partially offset by higher PCL.

Total revenue increased \$1,871 million or 12%, of which \$609 million reflects the inclusion of HSBC Canada revenue. The remaining increase of \$1,262 million or 8% was primarily due to higher net interest income reflecting higher spreads and average volume growth of 9% in deposits and 4% in loans in Personal Banking – Canada. Higher average mutual fund balances driving higher distribution fees, higher service charges, mainly reflecting higher client activity, and the prior year impact of HST on payment card clearing services also contributed to the increase.

NIM was up 13 bps, mainly due to the impact of the higher interest rate environment and changes in product mix. These factors were partially offset by competitive pricing pressures.

PCL increased \$538 million or 43%, primarily due to higher provisions on impaired loans mainly in our Canadian personal and credit cards portfolios, resulting in an increase of 7 bps in the PCL on impaired loans ratio.

Non-interest expense increased \$672 million or 10%, of which \$368 million reflects the inclusion of HSBC Canada non-interest expense. The remaining increase of \$304 million or 4% was primarily due to increased operating expenses, higher marketing costs largely associated with new client acquisition campaigns, higher professional fees and staff-related costs, as well as ongoing technology investments.

Average loans and acceptances increased 8%, primarily driven by the inclusion of HSBC Canada loans and acceptances and mortgage loan growth.

Average deposits increased 16%, primarily reflecting an increase in term deposits and the inclusion of HSBC Canada deposits. These factors were partially offset by a decline in demand deposits.

#### Personal Banking - Canada

Personal Banking – Canada offers a full range of products focused on meeting the needs of our individual Canadian clients at every stage of their lives through a wide range of financing and investment products and services. This includes home equity financing, personal lending, chequing and savings accounts, private banking, indirect lending (including auto financing), mutual funds, GICs, credit cards, and payment products and solutions.

We rank #1 in market share for all key Personal Banking products in Canada, supported by the largest retail banking network in Canada, with 1,189 branches and 4,042 ATMs.

#### Financial performance

Total revenue increased \$1,805 million or 13% compared to last year, of which \$609 million reflects the inclusion of HSBC Canada revenue. The remaining increase of \$1,196 million or 8% was primarily due to higher net interest income reflecting higher spreads and average volume growth of 9% in deposits and 4% in loans.

Average residential mortgages increased 8% compared to last year, primarily driven by the inclusion of HSBC Canada residential mortgages and an increase in mortgage originations.

Average deposits increased 16% from last year, primarily reflecting an increase in term deposits and the inclusion of HSBC Canada deposits. These factors were partially offset by a decline in demand deposits.

Selected highlights		Table 20
(Millions of Canadian dollars, except number of)	2024 (1)	2023 (2)
Total revenue	\$ 16,206	\$ 14,401
Other information		
Average residential mortgages	388,500	358,400
Average other loans and acceptances, net	78,300	74,800
Average deposits	382,300	328,400
Average credit card balances	23,400	20,800
Credit card purchase volumes	185,000	174,200
Branch mutual fund balances (3)	223,600	174,700
Average branch mutual fund balances	204,000	183,100
Number as at October 31:		
Branches (4)	1,189	1,143
ATMs (4)	4,042	4,003

- On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, which impacted results for 2024. For further details, refer to the Key corporate events section.
- (2) Certain amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
- (3) Represents year-end spot balances.
- (4) Branches and ATMs are shared across Personal Banking and Commercial Banking.

# Average residential mortgages, loans and deposits (Millions of Canadian dollars) 400,000 350,000 300,000 250,000 200,000 150,000 0 2024 2024 2023 (1) Residential mortgages Other loans and Deposits

 Average other loans and acceptances, net and average deposits amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.

acceptances, net

#### Caribbean & U.S. Banking

Our Caribbean Banking business provides personal and commercial banking to a range of clients, including individuals, small businesses, general commercial entities, regional and multi-national corporations, and governments; supported by an extensive branch, ATM, online and mobile banking network.

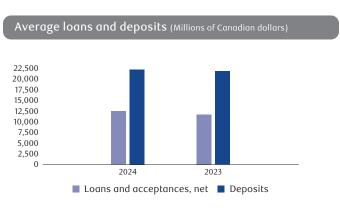
Our U.S. Banking business serves the needs of Canadian retail and small business clients providing personalized, digitally-enabled cross-border banking solutions enabling a cross-border lifestyle in all 50 states across the U.S.

#### Financial performance

Total revenue increased \$66 million or 6% from last year, primarily due to higher net interest income reflecting higher spreads.

Average loans and acceptances increased 7% and average deposits increased 1%, primarily due to increased client activity and the impact of foreign exchange translation.

Selected highlights		To	ıble 21
(Millions of Canadian dollars, except number of and percentage amounts)	2024		2023
Total revenue	\$ 1,136	\$	1,070
Other information			
NIM	4.26%		4.08%
Average loans and acceptances, net	12,500		11,700
Average deposits	22,300		21,900
AUA (1)	11,000		10,800
Average AUA	10,700		10,500
AUM (1)	5,700		5,500
Average AUM	5,600		5,400
Number as at October 31:			
Branches	38		38
ATMs	259		271



<sup>(1)</sup> Represents year-end spot balances.

#### Commercial Banking

Commercial Banking offers a wide range of lending, deposit and transaction banking products and services to businesses across Canada. With one of the largest teams of relationship managers and specialists in the industry, our commitment to client experience and trusted advice has earned us leading market share in business lending and deposits.

## > 1 million

Number of Commercial Banking clients

Ranking in market share in commercial lending and deposits1 > 2,700

Client-facing advisors and specialists

**Revenue by Product** 



- 61% Deposits and Cash Management
- 39% Lending

We are a market-leading bank with a full range of services to meet the needs of Canadian companies and foreign businesses operating in Canada.

In Canada, we compete with other Schedule 1 banks, foreign banks, credit unions, auto financing companies, as well as emerging entrants to the financial services industry.

For small businesses, we offer convenience through 1,189 branches and comprehensive digital solutions supported by experienced advisors. For mid-market businesses, we provide customized banking advice through our network of relationship managers, and product and industry specialists. For large commercial and corporate clients, we offer tailored service and solutions through our broad team of specialists and market-leading capabilities.

#### 2024 Operating environment

- > Following months of record high interest rates, the BoC began to loosen monetary policy in June 2024, responding to easing inflationary pressures. As a result of the higher rate environment in 2024, net interest income was favourably impacted, carrying through from 2023.
- > Despite the challenging macroeconomic environment, including competitive intensity with aggressive terms and pricing, Commercial Banking achieved strong volume growth across most products and client segments due to our continued focus on growing our strategic client segments along with our ongoing sales enablement.
- > We continue to hold an industry-leading position and are growing market share across most lending and deposit segments.
- > The credit environment was impacted by slowing economic growth, rising unemployment rates and elevated interest rates, resulting in higher provisions on impaired and performing loans.
- > Non-interest expense reflects staff-related costs, the integration of HSBC Canada, investments in sales enablement improving the client experience, and ongoing investments in technology.

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Market share is calculated using most current data available from OSFI (M4), IFIC and CBA, and is as at August 2024 and March 2024, respectively.

#### Strategic priorities

OUR STRATEGY	PROGRESS IN 2024	PRIORITIES IN 2025
Further strengthen our market- leading value proposition for	Extended our Canadian leadership position in the small business and mid-market commercial banking segments	Grow our share of new businesses through our market-leading small business value proposition
Small Business and Mid-Market Commercial clients	Sharpened and deepened focus on priority sectors to	Digitize our business to drive more convenience, efficiency and speed for our clients
	enhance competitiveness  Continued to invest in the client experience and digitization of our platforms	Develop capabilities in key strategic assets (e.g., Ownr, Dr. Bill, PayEdge, etc.), and foster partnerships to drive increased value for clients
Become bank of choice for Canadian nexus international clients	Acquired and integrated HSBC Canada's internationally-focused business and talent to better position us to be the bank of choice for commercial electronic to the control of the control o	Complete integration of colleagues, clients and capabilities from the former HSBC Canada organization to enable growth
	clients with international needs Invested in new product capabilities to better serve clients with international needs such as virtual	Invest in our leading global payments solutions, extending to RBC clients, in conjunction with Capital Markets
	accounts, liquidity management, international payments and structured trade	Enhance sales and servicing model for international clients, leveraging HSBC Canada's best practices
	Collaborated with Capital Markets to strengthen FX and foreign currency offerings to better meet needs of international clients	
Accelerate growth and deepen relationships with large commercial and corporate clients	Onboarded experienced HSBC Canada relationship managers and product specialists, bolstering the client experience and our capacity in key markets	Broaden and deepen coverage and expertise in priority sectors and Canadian markets
commercial and corporate chemis	Migrated HSBC Canada legacy clients onto RBCEdge, our next-generation business banking platform	Accelerate investment in RBC Edge™ and market- leading capabilities (e.g., virtual accounts, liquidity, etc.) to deliver next-generation treasury platform and extend it to RBC clients
	Continued to enhance specialty finance and sustainable finance capabilities through strategic hiring and product enhancements	Invest in large commercial/corporate coverage and servicing model to further enhance the client experience
Support sustainable communities	Scaled sustainable finance offerings, with a focus on market and business development for initial sectors in focus	Expand sustainable finance business through investments in our value proposition, advisor capabilities and foundational processes
	Helped Canadian businesses grow through dedicated products, services, along with RBC Beyond Banking business services and offers	Continue to help Canadian businesses grow through dedicated products, services and collaborations
	Shared insights and ideas to help employees, communities, governments and organizations move towards sustainability goals	Continue sharing insights and ideas to help employees, communities, governments and organizations move towards their sustainability goals
	Launched training programs to support advisors' climate education	
Attract, grow and retain future- ready talent	Invested in skills development, elevating performance and fostering a culture of inclusive leadership through programs such as people manager masterclasses,	Coach and enable our employees to grow and develop skills to thrive
	reskilling programs and learning series	Empower teams to deliver value to our clients and shareholders, and drive our strategic ambitions
	Continued to help employees achieve their work and life goals through targeted health and wellbeing support	Develop leaders who create the right conditions for a high-performance culture to unlock the best of RBC
	Strengthened our culture of inclusion and belonging through initiatives that provide access to opportunities for growth and development, including: Canadian Banking Women's Forum, Empower Program (BIPOC and People with Disabilities), and Indigenous Development Program	Foster inclusive access to development opportunities and further strengthen our culture of belonging

#### Outlook

Rapid population growth driven by immigration has helped to support total GDP growth and consumer spending, but GDP has been declining on a per-capita basis. Sharply reduced immigration rates are expected to weigh on total consumer demand growth in 2025, but per-person GDP growth is expected to accelerate gradually starting in the second half of 2025, reflecting lower inflation and the lagged impact of BoC interest rate cuts. The cooling inflation may reduce cost pressures, which have been challenging for many Canadian businesses, allowing more opportunities for business growth and reduce the risk of default. Changes in the U.S. trade policies may also adversely impact some export-oriented Canadian businesses, which could reduce business activity and volumes.

For further details on our general economic review and outlook, refer to the Economic, market and regulatory review and outlook section.

Commercial Banking		Table 22
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	2024 (1)	2023 (2)
Net interest income	\$ 6,061	\$ 4,771
Non-interest income	1,321	1,261
Total revenue	7,382	6,032
PCL on performing assets	261	70
PCL on impaired assets	714	245
PCL	975	315
Non-interest expense	2,512	2,143
Income before income taxes	3,895	3,574
Net income	\$ 2,818	\$ 2,582
Key ratios		
ROE (3)	18.5%	23.7%
NIM	4.06%	4.39%
Efficiency ratio	34.0%	35.5%
Operating leverage	5.2%	1.0%
Selected balance sheet information		
Average total assets	\$ 165,400	\$ 127,200
Average total earning assets, net	149,400	108,800
Average loans and acceptances, net	161,600	125,800
Average deposits	281,800	241,800
Other information		
Number of employees (FTE) (4)	1,290	928
Credit information		
PCL on impaired loans as a % of average net loans and acceptances	0.44%	0.20%

- (1) On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, which impacted results, balances and ratios for 2024. For further details, refer to the Key corporate events section.
- (2) Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing moved from the previous Personal & Commercial Banking segment to the Wealth Management segment. Amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
- (3) Effective November 1, 2023, our attributed capital methodology incorporates leverage requirements to allocate capital to our business segments. For further details on changes to our attributed capital methodology, refer to the How we measure and report our business segments section.
- (4) Excludes FTE for all shared services across Personal Banking and Commercial Banking, for which the Non-interest expenses are allocated to both Personal Banking and Commercial Banking.

## Financial performance 2024 vs. 2023

Net income increased \$236 million or 9% from last year. The inclusion of HSBC Canada results increased net income by \$219 million. Excluding HSBC Canada results, net income increased \$17 million or 1%, as growth in total revenue more than offset higher PCL and higher non-interest expenses.

Total revenue increased \$1,350 million or 22%, of which \$880 million reflects the inclusion of HSBC Canada revenue. The remaining increase of \$470 million or 8% was primarily due to higher net interest income reflecting average volume growth of 9% in deposits and 13% in loans and acceptances, including the impact of the cessation of Bankers' Acceptance-based lending, which was largely offset in non-interest income, and higher spreads. These factors were partially offset by lower non-interest income, primarily in credit fees reflecting the impact of the cessation of Bankers' Acceptance-based lending, which was largely offset in net interest income as noted above.

PCL increased \$660 million, largely due to higher provisions on impaired loans in a few sectors, including the automotive and real estate and related sectors, resulting in an increase of 24 bps in the PCL on impaired loans ratio. Higher provisions on performing loans, mainly reflecting the initial PCL on performing loans purchased in the HSBC Canada transaction and unfavourable changes in credit quality, also contributed to the increase.

Non-interest expense increased \$369 million or 17%, of which \$274 million reflects the inclusion of HSBC Canada non-interest expense. The remaining increase of \$95 million or 4% was primarily attributable to higher staff-related costs and ongoing technology investments.

Average loans and acceptances increased 28%, primarily driven by the inclusion of HSBC Canada loans and acceptances and our continued focus on growing strategic client segments and ongoing sales enablement.

Average deposits increased 17%, primarily driven by the inclusion of HSBC Canada deposits and growth across all client segments.

Wealth Management primarily serves affluent, high net worth (HNW) and ultra-high net worth (UHNW) clients from our offices in key financial centres across the globe. We offer a comprehensive suite of wealth, investment, trust, banking, credit and other solutions to this client segment. We also provide a self-directed investment service in Canada, as well as asset management products globally to institutional and individual clients through our distribution channels and third-party distributors. We offer asset services and investor services to financial institutions, asset managers and asset owners in Canada.

### \$19.6 billion

Total revenue

## > 6,100 Client-facing advisors

#### ~ 80%

GAM AUM outperforming the benchmark on a blended 1-3-5 year basis¹

## Asset under Administration (AUA)



## Assets under Management (AUM)



Our lines of business include Canadian Wealth Management, U.S. Wealth Management (including City National), Global Asset Management (GAM), International Wealth Management and Investor Services.

- Canadian Wealth Management includes a full-service wealth advisory business serving HNW and UHNW clients, as well as a leading self-directed investment service in Canada. The full-service wealth advisory business is the largest in Canada, as measured by AUA
- U.S. Wealth Management (including City National) encompasses our private client group (PCG) and clearing and custody (C&C) businesses. PCG is a full-service wealth advisory firm in the U.S., and City National is a U.S.-based relationship bank serving the entertainment industry, mid-market businesses, HNW individuals and other clients who value personalized banking relationships
- GAM is the largest retail mutual fund company in Canada as measured by AUM, as well as a leading institutional asset manager
- International Wealth Management serves HNW and UHNW clients, primarily through key financial centres in the U.K., Ireland, the Channel Islands and Asia
- Investor Services safeguards client assets and supports the growth of Canadian asset managers, asset owners, insurance companies and investment counsellors. Investor Services also provides sub-custody services to global financial institutions and brokers

#### 2024 Operating environment

- > Earnings in the current fiscal year benefitted from strong growth in client assets, primarily driven by favourable market conditions and positive net flows. U.S. Wealth Management (including City National) earnings also benefitted from the higher interest rate environment and lower PCL.
- Our wealth advisory businesses performed well with continued net positive flows of fee-based client assets reflecting the strength of our business driven by the quality of our advice, the breadth of our investment and holistic wealth planning solutions and clients' trust in our brand. The Canadian mutual fund sector started to show improvement in sales due to favourable market conditions and the expectation of reduced interest rates.
- > We continued to invest in our people and technology to maintain our competitive advantage and increase efficiencies in an environment characterized by market volatility, rapidly changing client preferences and increasing regulatory requirements.
- > While the credit environment in fiscal 2024 reflected elevated interest rates, it also reflected favourable changes in our economic outlook towards the latter half of the year, resulting in releases of provisions on performing loans and lower provisions on impaired loans.

As at September 2024, gross of fees, excluding RBC Indigo Asset Management Inc. (formerly HSBC Asset Management Canada).

#### Strategic priorities

OUR STRATEGY	PROGRESS IN 2024	PRIORITIES IN 2025
In Canada, be the premier service provider for HNW and UHNW clients, and build on our leading position serving self-directed investors	Further extended our position as an industry leader in our full-service private wealth business Continued to focus on holistic wealth planning, including advisor training on intergenerational and business wealth transfer Continued to expand RBC® Premier Banking to deepen banking relationships with Wealth Management clients Focused on the business owner client segment, deepening client relationships across the various business segments Continued to enhance our digital and data capabilities to drive increased client satisfaction and advisor productivity Implemented unique capabilities that are becoming increasingly important to our client base, such as private alternative investment products Successfully transitioned HSBC Canada clients onto the RBC Direct Investing® platform and RBC Phillips, Hager & North Investment Counsel® Expanded online trading capabilities to new foreign stock exchanges	Continue to retain and attract top-performing advisors to strengthen our talent advantage  Deliver a differentiated client experience through enriched advisor-client interactions and seamless digital experiences  Deepen client relationships by leveraging the combined strengths across other business segments with a focus on the business owner client segment  Continue to invest in digital solutions to streamline and improve efficiency and advisor productivity, including our positioning with early stage investors through RBC Direct Investing  Modernize infrastructure and systems to ensure ongoing resiliency in our technology platforms
In the U.S., become the leading private and commercial bank and wealth manager in our key markets	Continued to invest in key areas needed to drive growth in the U.S. market, including banking and lending solutions, enhancements to the digital platform, increased brand presence and financial advisor recruitment  At City National, we continued to focus on enhancing our risk management and compliance capabilities across the three lines of defence for sustainable, organic growth in the future	Continue to deliver an exceptional client experience for targeted HNW and UHNW segments by deepening client relationships with the expansion of our banking and lending offering  Leverage the combined strengths within U.S. Wealth Management (including City National) and Capital Markets to deepen client relationships  At City National, we will continue to focus on enhancing our risk management and compliance capabilities across the three lines of defence for sustainable, organic growth in the future
In select global financial centres, become the most trusted regional private bank	Continued to deliver on growth initiatives, bringing the full strength and breadth of RBC to our clients Focused on delivering a differentiated client experience by leveraging our global capabilities Continued to leverage RBC Brewin Dolphin to support our position as a top five largest wealth manager in the U.K. <sup>2</sup> Achieved growth and continued momentum in Asia through the addition of experienced client-facing advisors and net new assets	Focus on growing market share in target markets Continue to leverage our global strengths to better serve clients and deepen relationships, taking advantage of our expanded product suite and distribution channels Continue to deliver an exceptional client experience and increase business effectiveness and talent capabilities Continue to enhance client value proposition and consolidation of position in the U.K. local market In Asia, continue to focus on achieving scale by growing the business through hiring of experienced client-facing advisors and leveraging our global capabilities
In asset management, be a leading, diversified asset manager focused on global institutional and North American retail clients	Maintained #1 market share in Canadian mutual fund AUM RBC® iShares strategic alliance maintained #1 market share in Canadian ETFs Integrated RBC Indigo Asset Management Inc., formerly HSBC Asset Management Canada, as part of the broader HSBC Canada acquisition	Continue to focus on delivering exceptional investment performance and valued insights with client experience at the centre of all that we do  Continue to expand our investment capabilities to meet evolving client needs in our target distribution regions
In Investor Services, be the market leader of investment servicing in Canada	Continued to focus on our Canadian business and completed divestiture of the non-Canadian operations	Continue investments in client experience and for driving efficiency in operations
Attract, grow and retain future-ready talent	Continued to focus on leadership capabilities to grow and develop our employees through programs, such as people manager masterclasses, learning series and workshops  Strengthened our culture of inclusion and belonging through initiatives that provide access to opportunities for growth and development, including: Women in Investments, Women Advisor Experience listening sessions, Diversity Leadership Councils and Employee Resource Groups  Embedded refreshed practices to grow and retain our employees by increasing coaching, mentorship, reskilling programs and sponsorships	Coach and enable our employees to grow and develop skills to thrive  Empower teams to deliver value to our clients and shareholders, and drive our strategic ambitions  Develop leaders who create the right conditions for a high-performance culture to unlock the best of RBC  Foster inclusive access to development opportunities and further strengthen our culture of belonging

#### Outlook

Markets will continue to be impacted by the evolving macroeconomic environment, including the impact of interest rates which are expected to decline further as well as a slowdown in economic growth in Canada.

Despite this backdrop, we believe our diversified businesses remain well-positioned to continue growing our leading position in Canada and increasing our market share in the HNW and UHNW client segments globally, leveraging the strength of our brand, reputation and strong financial position. Our strategy remains unchanged as we continue to focus on delivering an unmatched client experience through holistic goals-based advice, attracting and retaining top-performing advisors, and collaborating across the enterprise to bring the full breadth of our capabilities to our clients. We will continue to invest in our people and technology to improve client and advisor experiences, drive operational efficiencies, and further strengthen our risk, compliance and controls infrastructure to meet heightened regulatory expectations.

Based on publicly available information for wealth management firms (excluding platform businesses) in the U.K., as of September 2024.

For further details on our general economic review and outlook, refer to the Economic, market and regulatory review and outlook section.

Wealth Management		Table 23
(Millions of Canadian dollars, except number of, percentage amounts and as otherwise noted)	2024 (1)	2023 (2)
Net interest income Non-interest income Total revenue PCL on performing assets PCL on impaired assets PCL Non-interest expense Income before income taxes	\$ 4,979 14,647 19,626 (119) 148 29 15,312 4,285	\$ 4,853 13,308 18,161 153 175 328 14,387 3,446
Net income Revenue by business	\$ 3,422	\$ 2,693
Canadian Wealth Management (2) U.S. Wealth Management (including City National) U.S. Wealth Management (including City National) (US\$ millions) Global Asset Management International Wealth Management Investor Services (3)	\$ 5,777 8,906 6,550 2,948 1,295 700	\$ 5,060 7,969 5,908 2,626 1,273 1,233
Key ratios ROE (4) NIM Pre-tax margin (5)	14.4% 3.26% 21.8%	10.9% 2.84% 19.0%
Selected balance sheet information Average total assets Average total earning assets, net Average loans and acceptances, net Average deposits (3)	\$ 176,200 152,500 114,600 163,400	\$ 194,600 170,900 115,300 169,200
Other information  AUA (3), (6), (7)  U.S. Wealth Management (including City National) (6)  U.S. Wealth Management (including City National) (US\$ millions) (6)  Investor Services (6)  AUM (6)  Average AUA (3)  Average AUM  PCL on impaired loans as a % of average net loans and acceptances  Number of employees (FTE)  Number of advisors (8)	\$ 4,685,900 930,000 668,100 2,681,400 1,332,500 4,384,200 1,218,900 0.13% 25,672 6,116	\$ 4,110,200 752,700 542,800 2,488,600 1,058,900 5,119,500 1,058,000 0.15% 25,278 6,169
Adjusted results (9) Total revenue – adjusted Income before income taxes – adjusted Net income – adjusted U.S. Wealth Management (including City National) revenue – adjusted U.S. Wealth Management (including City National) revenue (US\$ millions) – adjusted	\$ 19,626 4,285 3,422 8,906 6,550	\$ 18,403 3,688 2,870 8,211 6,083
<b>Key ratios – adjusted</b> (9)  ROE – adjusted  Pre-tax margin – adjusted (5)	14.4% 21.8%	11.6% 20.0%

#### Estimated impact of U.S. dollar, British pound and Euro translation on key income statement items

(Millions of Canadian dollars, except percentage amounts)	2024 vs. 202	3
Increase (decrease): Total revenue	\$ 14	4
PCL Non-interest expense Net income	12	
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)9 (4)9 (2)9	%

- (1) On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, which impacted results, balances and ratios for 2024. For further details, refer to the Key corporate events section.
- (2) Effective the fourth quarter of 2024, RBC Direct Investing moved from the previous Personal & Commercial Banking segment to the Wealth Management segment. Comparative amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
- (3) We completed the sale of RBC Investor Services operations in Europe, Jersey and the U.K to CACEIS on July 3, 2023, December 1, 2023 and March 25, 2024, respectively (the sale of RBC Investor Services operations). For further details, refer to Note 6 of our 2024 Annual Consolidated Financial Statements.
- (4) Effective November 1, 2023, our attributed capital methodology incorporates leverage requirements to allocate capital to our business segments. For further details on changes to our attributed capital methodology, refer to How we measure and report our business segments section.
- (5) Pre-tax margin is defined as Income before income taxes divided by Total revenue. Adjusted pre-tax margin is calculated in the same manner, using adjusted income before income taxes and adjusted total revenue.
- (6) Represents year-end spot balances.
- (7) In addition to Canadian Wealth Management, U.S. Wealth Management (including City National), International Wealth Management and Investor Services, AUA includes \$7,400 million (2023 \$6,200 million) related to GAM.
- (8) Represents client-facing advisors across all our Wealth Management businesses.
- (9) These are non-GAAP measures and non-GAAP ratios. During the year ended October 31, 2023, we recognized impairment losses of \$177 million (before-tax \$242 million) on our interest in an associated company. For further details on this specified item, including a reconciliation, refer to the Key performance and non-GAAP measures section.

Client assets – AUA				Table 24
(Millions of Canadian dollars)		2024		2023 (1)
AUA, beginning balance (2) Asset inflows Asset outflows	,	621,600 474,000 458,800)	\$	1,515,500 428,800 (410,600)
Total net flows (2) Market impact Acquisitions/dispositions Foreign exchange/other		15,200 341,700 21,400 4,600		18,200 45,500 - 42,400
Total market, acquisition/dispositions and foreign exchange/other impact (2)		367,700		87,900
AUA, balance at end of year (2)	2,	004,500		1,621,600
Investor Services, balance at end of year (3)	2,	681,400		2,488,600
Total AUA	\$ 4,	685,900	\$	4,110,200

- (1) Certain amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
- (2) Includes AUA from the following lines of business; Canadian Wealth Management, U.S. Wealth Management (including City National), Global Asset Management and International Wealth Management.
- (3) Includes the impact from the sale of RBC Investor Services operations. For further details, refer to Note 6 of our 2024 Annual Consolidated Financial Statements.

AUA by geographic mix and asset class		Table 25
(Millions of Canadian dollars)	2024	2023 (1)
Canada (2), (3)  Money market Fixed income Equity Multi-asset and other	\$ 28,400 61,500 248,400 510,300	\$ 32,300 55,700 183,400 400,500
Total Canada	848,600	671,900
U.S. (2), (3)  Money market Fixed income Equity Multi-asset and other	36,300 144,600 335,900 413,200	31,600 131,600 271,600 318,000
Total U.S.	930,000	752,800
Other International (2), (3) Money market Fixed income Equity Multi-asset and other	19,200 13,200 56,800 136,700	18,800 11,300 49,300 117,500
Total International	225,900	196,900
AUA, balance at end of year (3)	2,004,500	1,621,600
Investor Services, balance at end of year (4)	2,681,400	2,488,600
Total AUA	\$ 4,685,900	\$ 4,110,200

- (1) Certain amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
- (2) Geographic information is based on the location from where our clients are served.
- (3) Includes AUA from the following lines of business; Canadian Wealth Management, U.S. Wealth Management (including City National), Global Asset Management and International Wealth Management.
- (4) Includes the impact from the sale of RBC Investor Services operations. For further details, refer to Note 6 of our 2024 Annual Consolidated Financial Statements.

Client assets – AUM		Table 26
	2024	2023
(Millions of Canadian dollars)	Money Fixed Multi-asset market income Equity and other Total	Total
AUM, beginning balance Institutional inflows Institutional outflows Personal flows, net	\$ 40,600 \$ 214,800 \$ 129,700 \$ 673,800 \$ 1,058,900 214,100 74,000 9,300 20,500 317,900 (217,000) (48,100) (12,600) (17,400) (295,100) 800 5,700 2,600 10,700 19,800	\$ 991,500 239,200 (226,000) 10,300
Total net flows Market impact Acquisition/dispositions Foreign exchange	(2,100)     31,600     (700)     13,800     42,600       1,600     24,700     37,200     137,500     201,000       2,300     800     7,600     9,900     20,600       200     900     300     8,000     9,400	23,500 27,500 - 16,400
Total market, acquisition/dispositions and foreign exchange impact	4,100 26,400 45,100 155,400 231,000	43,900
AUM, balance at end of year	\$ 42,600 \$ 272,800 \$ 174,100 \$ 843,000 \$ 1,332,500	\$ 1,058,900

## Financial performance 2024 vs. 2023

Net income increased \$729 million or 27% from last year, primarily due to higher fee-based client assets reflecting market appreciation and net sales, which also drove higher variable compensation. Higher transactional revenue and lower PCL also contributed to the increase. Adjusted net income increased \$552 million or 19%, as the prior year included the impact of the specified item relating to impairment losses on our interest in an associated company.

Total revenue increased \$1,465 million or 8%, primarily due to higher fee-based client assets reflecting market appreciation and net sales. Higher transactional revenue, mainly driven by client activity and the impact of foreign exchange translation also contributed to the increase. The prior year also included the impact of the specified item relating to impairment losses on our interest in an associated company. These factors were partially offset by reduced revenue following the sale of RBC Investor Services operations. Adjusted total revenue increased \$1,223 million or 7%.

PCL decreased \$299 million or 91%, primarily due to releases of provisions on performing loans this year in U.S. Wealth Management (including City National), mainly driven by favourable changes to our macroeconomic forecast, as compared to provisions taken last year.

Non-interest expense increased \$925 million or 6%, primarily driven by higher variable compensation commensurate with increased commissionable revenue. The cost of the FDIC special assessment, the impact of foreign exchange translation, and higher staff costs including continued investments in the operational infrastructure of City National also contributed to the increase. These factors were partially offset by reduced expenses following the sale of RBC Investor Services operations, and the impact of legal provisions in the prior year.

AUA and AUM increased \$576 billion or 14% and \$274 billion or 26% respectively, primarily due to market appreciation.

For further details on specified items, including a reconciliation, refer to the Key performance and non-GAAP measures section.

#### **Business line review**

#### Canadian Wealth Management

Canadian Wealth Management includes our full-service wealth advisory business as well as our self-directed investment service in Canada. Our full-service wealth advisory business is the largest in Canada as measured by AUA, with approximately 2,000 investment advisors providing comprehensive financial solutions with a focus on HNW and UHNW clients. We provide discretionary investment management and estate and trust services to our clients through over 140 investment counsellors and over 120 trust professionals across Canada.

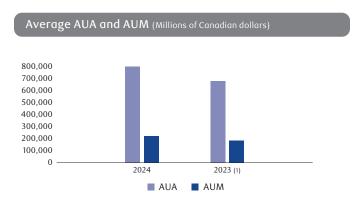
We compete with domestic banks and trust companies, investment counselling firms, bank-owned full-service brokerages and boutique brokerages, mutual fund companies and global private banks. In Canada, bank-owned wealth managers continue to be the major players for the HNW/UHNW segment.

#### Financial performance

Revenue increased \$717 million or 14% from last year, largely due to higher fee-based client assets reflecting market appreciation and net sales. Higher transactional revenue, mainly driven by client activity, also contributed to the increase.

Selected highlights			Table 27
(Millions of Canadian dollars)		2024 (1)	2023 (2)
Total revenue	\$	5,777	\$ 5,060
Other information			
Average loans and acceptances,			
net		6,500	6,700
Average deposits		25,000	26,300
AUA (3)	8	855,800	677,300
AUM (3)	2	240,500	184,300
Average AUA	-	791,100	668,200
Average AUM	2	218,600	182,200

- (1) On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, which impacted results for 2024. For further details, refer to the Key corporate events section.
- (2) Certain amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
- (3) Represents year-end spot balances.



 Average AUA amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.

#### U.S. Wealth Management (including City National)

U.S. Wealth Management (including City National) encompasses PCG and our C&C businesses. PCG is a full-service wealth advisory firm in the U.S. with over 2,200 financial advisors. Our C&C business delivers clearing and execution services for small to mid-sized independent broker-dealers and registered investment advisor firms. City National provides comprehensive financial solutions to affluent individuals, entrepreneurs, professionals, their businesses and their families, and other clients who value personalized banking relationships through a high-touch service model, proactive advice and financial solutions. City National offers a broad range of lending, deposit, cash management, equipment financing, wealth management and other products and services. In the U.S., we operate in a fragmented and highly competitive industry. Our competitors include other broker-dealers, commercial banks and other financial institutions that service HNW and UHNW individuals, entrepreneurs and their businesses.

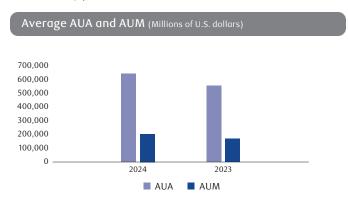
#### Financial performance

Revenue increased \$937 million or 12% from last year. In U.S. dollars, revenue increased \$642 million or 11%, mainly due to higher fee-based client assets reflecting market appreciation and net sales. Higher transactional revenue, mainly reflecting client activity, also contributed to the increase. The prior year also included the impact of the specified item relating to impairment losses on our interest in an associated company. Adjusted revenue in U.S. dollars increased \$467 million or 8%.

NIM was up 18 bps, primarily driven by lower wholesale borrowing and the impact of higher interest rates, partially offset by higher deposit costs.

For further details on specified items, including a reconciliation, refer to the Key performance and non-GAAP measures section.

Selected highlights	Table 28				
(Millions of Canadian dollars, except as otherwise noted)		2024		2023	
Total revenue Other information (Millions of U.S. dollars)	\$	8,906	\$	7,969	
Total revenue NIM		6,550 2.71%		5,908 2.53%	
Average earning assets, net Average loans, guarantees and letters of credit, net		100,600 75,500		103,500 75,900	
Average deposits AUA (1) AUM (1)		84,100 668,100 220,200		83,200 542,800 176,900	
Average AUA Average AUM		629,100 206,300		544,000 174,500	



#### **Global Asset Management**

GAM provides global investment management services and solutions for individual and institutional investors in Canada, the U.K., the U.S., Europe and Asia. We provide a broad range of investment management services through mutual, pooled and private funds, fee-based accounts and separately managed portfolios. We distribute our investment solutions through a broad network of bank branches, our self-directed and full-service wealth advisory businesses, independent third-party advisors and private banks, and directly to individual clients. We also provide investment solutions directly to institutional clients, including pension plans, insurance companies, corporations, endowments and foundations.

We are the largest retail fund company in Canada measured by AUM, as well as a leading institutional asset manager. We face competition in Canada from banks, insurance companies and asset management organizations. The Canadian fund management industry is large and mature, but remains a relatively fragmented industry.

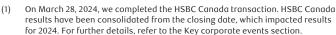
In the U.S., our asset management business offers investment management solutions and services, primarily to institutional investors, and competes with independent asset management firms, as well as those that are part of national and international banks and insurance companies.

Internationally, through our global capabilities distributed under the RBC BlueBay Asset Management platform, we offer investment management solutions for institutions and, through private banks including RBC Wealth Management®, to HNW and UHNW investors. We face competition from asset managers that are owned by international banks, as well as national and regional asset managers in the geographies where we serve clients.

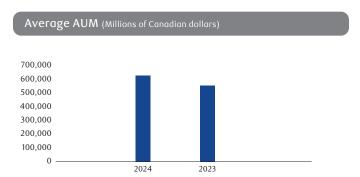
#### Financial performance

Revenue increased \$322 million or 12% from last year, mainly due to higher fee-based client assets reflecting market appreciation and net sales. Changes in the fair value of seed capital investments and the inclusion of HSBC Canada revenue also contributed to the increase.

Selected highlights		1	Table 29
(Millions of Canadian dollars)	2024 (1)		2023
Total revenue	\$ 2,948	\$	2,626
Other information			
Canadian net long-term mutual fund sales (redemptions) (2)	1 000		/11 267\
Canadian net money market	1,898		(11,367)
mutual fund sales			
(redemptions) (2)	1,334		1,121
AUM (3)	680,300		541,300
Average AUM	619,900		550,700



<sup>(2)</sup> As reported to the Investment Funds Institute of Canada. Includes all prospectus-based mutual funds across our Canadian GAM businesses.



<sup>(1)</sup> Represents year-end spot balances.

<sup>(3)</sup> Represents year-end spot balances.

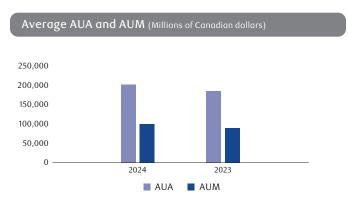
#### **International Wealth Management**

International Wealth Management includes operations in the U.K., Ireland, the Channel Islands and Asia. We provide customized and integrated wealth management solutions to affluent, HNW, UHNW and corporate clients in key financial centres. Competitors to our International Wealth Management business include global wealth managers, traditional private banks and domestic wealth managers.

#### Financial performance

Revenue increased \$22 million or 2% from last year, primarily due to the impact of foreign exchange translation and higher fee-based client assets reflecting market appreciation. These factors were partially offset by lower net interest income driven by lower spreads and deposit volumes.

Selected highlights		Table 30
(Millions of Canadian dollars)	2024	2023
Total revenue	\$ 1,295	\$ 1,273
Other information		
Average loans, guarantees		
and letters of credit, net	4,500	4,800
Average deposits	11,500	11,800
AUA (1)	211,300	185,400
AUM (1)	105,000	87,900
Average AUA	201,100	185,200
Average AUM	99,800	89,600



#### **Investor Services**

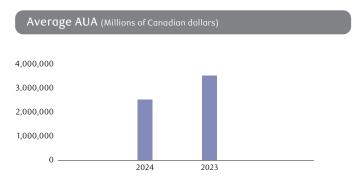
Investor Services delivers asset servicing solutions to Canadian asset managers, asset owners, insurance companies and investment counsellors, and provides sub-custody services for global financial institutions and brokers. Our product and service offering includes custody, fund administration, shareholder services, pension benefit services and market services (including foreign exchange, securities finance and cash/liquidity management). Competitors to our Investor Services business include domestic and international custodians with Canadian entities and operations.

#### Financial performance

Revenue decreased \$533 million or 43% from last year, primarily reflecting reduced revenue following the sale of RBC Investor Services operations. The prior year also included the gain on the sale of RBC Investor Services operations.

Selected highlights			Table 31
(Millions of Canadian dollars)		2024	2023
Total revenue (1) Other information	\$	700	\$ 1,233
Average deposits (1)		11,600	18,000
AUA (1), (2)	2	,681,400	2,488,600
Average AUA (1)	2	,529,400	3,525,500

Amounts reflect the impact of the sale of RBC Investor Services operations.
 For further details, refer to Note 6 of our 2024 Annual Consolidated Financial Statements.



<sup>(1)</sup> Represents year-end spot balances.

<sup>(2)</sup> Represents year-end spot balances.

RBC Insurance® provides insurance advice and protection to approximately 4.9 million clients. We provide tailored, client-led advice and solutions, harnessing the power of technology and data and leveraging the strength and scale of the RBC enterprise as our competitive advantage.

## \$1.2 billion

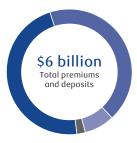
Total revenue

## ~ 4.9 million

Number of clients

2,788 Employees (FTE)





- 47% Life and Health
- 43% Annuity
- 8% Segregated Fund Deposits
- 2% Property and Casualty

RBC Insurance is one of the largest Canadian bank-owned insurance organizations on a total revenue basis.

We offer a comprehensive suite of advice and solutions for individual and business clients, including life, health, wealth solutions, travel, group benefits and reinsurance. We provide property & casualty insurance through a distribution agreement with Aviva Canada. We also offer longevity reinsurance, and reinsurance solutions for creditor life, disability and critical illness.

Our products and services are distributed through multiple channels, including our proprietary sales force, digital platforms, and a network of independent brokers and partners.

#### 2024 Operating environment

- > In 2024, RBC Insurance successfully transitioned to IFRS 17 and repositioned our portfolio for the new standard accordingly.
- > Elevated interest rates and a softening economy impacted insurance affordability. Amidst this macroeconomic backdrop, we maintained growth, increasing total premiums and deposits, new business sales and investment returns.
- > Despite modest industry growth in life and health insurance products, we achieved strong new business premium growth in our term insurance product line through competitive pricing, product feature enhancements and process improvements to expedite underwriting. In health insurance, we also regained our market leadership position in disability insurance sales.
- Companies continued to leverage pension risk transfer transactions to de-risk their pension plans against a backdrop of higher interest rates. As a result, our group annuity business experienced disciplined growth within our risk tolerance driven by holistic pricing. Our individual annuities business also benefitted from a favourable interest rate environment.
- > Modest growth in overall creditor premium volume in line with stable housing activity and increased mortgage originations.
- > As affordability continues to be a concern for Canadians, we have grown our home & life business by offering an economical package of home & life solutions.
- > Pent up demand for travel by Canadians post-pandemic continued to drive strong sales in our travel insurance offering.
- As consumer preferences for digital channels and more simplified, personalized services continue to evolve, we initiated a digital transformation to harness digital, data and technology to build leading client experiences, bolster sales and marketing, and automate processes to make it easier for clients to do business with us.

#### Strategic priorities

OUR STRATEGY	PROGRESS IN 2024	PRIORITIES IN 2025
Deliver a market-leading client experience	Completed the national roll-out of HomeProtector® Basic Life Coverage, providing enhanced training for 1,500+ mortgage specialists, and offering additional choice and flexibility to clients during challenging economic conditions Launched Life Affinity to provide multi-product advice and affordable solutions to support our clients having coverage for all their needs. With this launch, clients who have both life and property insurance with RBC can access savings on their property insurance  Launched Corporate Life Insurance School, helping advisors build their corporate insurance knowledge and expand their life business to corporate clients. Over 2,500+ insurance advisors have earned continuing education credits in less than three months	Drive profitable business growth by continuing the journey to become a client-led organization underpinned by superior advice and solutions Drive deep client relationships through distribution excellence, including channel growth, and by supporting our agents and partners with best-in-class tools and unique value propositions
Lead in digital, data and technology	Transitioned to our new Agile Operating Model, resulting in approximately 30% YoY increase in overall digital release volume Achieved an approximately 17% reduction in call hold time through "ProcedureFlow", a digital solution enabling advisors to quickly find information, scripting, and processes when they need it Achieved an approximately 40% reduction in cycle time for underwriting life contracts following the full transition to the Agile Operating Model, driving cost optimization	Create innovative client experiences, leveraging data and analytics to proactively anticipate future insurance needs
Harness the power of RBC and the RBC Brand to grow our Insurance business	Maintained leadership in Creditor products (total insured lending balance) through advancements in the online digital enrollment channel Launched the Wealth Management and Insurance Collaboration Accelerator, designed to help our respective businesses partner more closely to meet client needs by enhancing partnership, tailoring products, and elevating service delivery Leveraged Enterprise Gen Al code generation tools for application development and testing, increasing team productivity by approximately 25%	Harness the power of being a bank-owned insurer by tapping into enterprise capabilities, relationships, channels, best practices and the RBC brand to maximize enterprise opportunities
Drive operational excellence through automation and streamlined processes	Achieved an approximately 55% reduction in client approval time for life insurance applications through business process re-engineering, surpassing the goal of a 50% reduction  Achieved approximately 45% reduction in claim payment time for group life claims, and approximately 79% reduction in new claim payment time for long-term disability claims, through end-to-end process review and optimization  Celebrated the one-year launch anniversary of our Enhanced Mental Health Claims program. Clients who have completed treatment in this program have returned to work approximately 10 months sooner compared to prior outcomes	Reimagine our processes through automation, advanced capabilities and resilient operations to position us for scale and to deliver an enhanced client experience
Attract, develop, and retain future-ready talent	Continued to develop advisors' capabilities and drive a high-performance culture Leveraged our Agile framework to integrate teams and optimize decisions that benefitted both clients and the business Strengthened our culture of inclusion and belonging through initiatives that provide access to opportunities for growth and development, including: Diversity Champions Program, and The Black Professional Network-Insurance Program	Coach and enable our employees to grow and develop skills to thrive Empower teams to deliver value to our clients and shareholders, and drive our strategic ambitions Develop leaders who create the right conditions for a high-performance culture to unlock the best of RBC Foster inclusive access to development opportunities and further strengthen our culture of belonging

#### Outlook

The insurance industry is expected to continue experiencing demographic changes and technological advancements. With an aging population, there is an expected increase in demand for life, health and wealth insurance products tailored to the needs of different client segments. As the integration of digital technologies is transforming the industry, we will remain focused on further strengthening our digital and data technology to offer more personalized insurance products and services. We will also seek to further enhance the client experience by investing in operational improvements and focusing on sustainable growth, enabling achievement of our goal of continuing to be a market leading insurer providing tailored, client-led solutions by harnessing the power of technology and data.

For further details on our general economic review and outlook, refer to the Economic, market and regulatory review and outlook section.

Insurance			Table 32
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	20	24	2023 (1), (2)
Non-interest income			
Insurance service result	\$ 7	77	\$ 703
Insurance investment result	2	94	156
Other income		53	151
Total revenue	1,2	24	1,010
PCL		2	_
Non-interest expense		85	293
Income before income taxes		37	717
Net income	\$ 7	29	549
Key ratios			
ROE	35.3	3%	25.3%
Selected balance sheet information			
Average total assets	\$ 26,4	00	\$ 25,100
Other information			
Premiums and deposits (3)	\$ 6,0	04	5,929
Net insurance contract liabilities (4)	21,6	43	18,345
Contractual service margin (CSM) (5)	2,1	37	1,956
Number of employees (FTE)	2,7	88	2,781

- (1) Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.
- (2) The 2023 restated results may not be fully comparable to the current period as we were not managing our asset and liability portfolios under IFRS 17.
- (3) Premiums and deposits include premiums on risk-based individual and group insurance and annuity products as well as segregated fund deposits, consistent with insurance industry practices.
- (4) Includes insurance contract liabilities net of insurance contract assets.
- (5) Represents the CSM of insurance contract assets and liabilities net of reinsurance contract held assets and liabilities. For insurance contracts, the CSM represents the unearned profit (net inflows) for providing insurance coverage. For reinsurance contracts held, the CSM represents the net cost or net gain of purchasing reinsurance. The CSM is not applicable to contracts measured using the premium allocation approach.

## Financial performance 2024 vs. 2023

Net income increased \$180 million or 33% from last year, mainly due to higher insurance investment result largely attributable to lower capital funding costs and favourable investment-related experience as we repositioned our portfolio for the transition to IFRS 17. Higher insurance service result, primarily due to business growth across the majority of our products, also contributed to the increase. The results in the prior period are not fully comparable as we were not managing our asset and liability portfolios

Total revenue increased \$214 million or 21%, primarily due to higher insurance investment result and higher insurance service result, as noted above.

Non-interest expense decreased \$8 million or 3%.

#### **Capital Markets**

RBC Capital Markets® is a premier global investment bank providing expertise in advisory & origination, sales & trading, lending & financing and transaction banking to corporations, institutional clients, asset managers, private equity firms and governments globally. Our professionals provide clients with the advice, products and services their businesses need from 58 offices in 16 countries. Our presence extends across North America, the U.K. & Europe, Australia, Asia and other regions.

> 22,500

Number of clients

#10

Global league table rankings<sup>1</sup>

7,424

Employees (FTE)





51% U.S.

28% Canada16% U.K. & Europe

5% Australia, Asia and other regions

We operate two main business lines: Corporate & Investment Banking and Global Markets.

In North America, we offer a full suite of products and services, including equity and debt origination and distribution, advisory services, sales & trading and transaction banking. In Canada, we are a market leader with a strategic presence in all lines of capital markets businesses. In the U.S., where our competitors include large global investment banks, we have a full industry sector coverage and investment banking product range, as well as capabilities in credit, secured lending, municipal finance, fixed income, currencies & commodities and equities.

Outside North America, we have a targeted strategic presence in the U.K. & Europe, Australia, Asia and other markets aligned to our global expertise. In the U.K. & Europe, we offer a diversified set of capabilities in key industry sectors of focus. In Australia and Asia, we compete with global and regional investment banks in targeted areas aligned to our global expertise, including fixed income distribution and currencies trading, secured financing, as well as corporate & investment banking.

#### 2024 Operating environment

- > The fiscal 2024 operating environment was characterized by declining interest rates and subsiding inflation signaling an improvement in the macroeconomic outlook despite ongoing geopolitical uncertainty.
- Industry-wide fee pools, particularly in the U.S. and Europe, began to recover in the first half of 2024 and continued to carry strong momentum through the second half, compared to 2023 during which fee pools were muted as clients largely maintained a risk-off position. In addition to the benefit of a recovering fee pool, we continued to advance our advisory capabilities and grew our market share across investment banking products which underpinned strong performance, as reflected in our solid top 10 ranking in the global league table.
- Trading activity, supported by strong client flow, continued to be robust during the year as the credit trading environment was mostly constructive while rates and foreign exchange trading saw a slight normalization compared to 2023 on lower market volatility.
- > We maintained a moderate growth strategy in our lending businesses, and delivered strong financial performance, despite elevated funding costs that began to normalize in the second half of the year. We also continued to leverage our balance sheet strength to support our clients during the 2024 fiscal year, including new clients acquired as part of the HSBC Canada transaction.
- > While the credit environment in fiscal 2024 reflected elevated interest rates, it also reflected favourable changes in our economic outlook towards the latter half of the fiscal year, resulting in releases of provisions on performing loans and lower provisions on impaired loans.

Source: Dealogic, based on global investment bank fees, Fiscal 2024

#### Strategic priorities

OUR STRATEGY	PROGRESS IN 2024	PRIORITIES IN 2025
Grow and deepen client relationships	Leveraged our globalized business model to drive multi-product global client relationships, resulting in high quality mandates and notable wins in Corporate & Investment Banking and Global	Deliver advisory, origination and sales & trading solutions across a broad client franchise through continued investments in talent, technology and financial resources
	Markets A notable client example is:	Expand client coverage in target sectors and products
	Sole underwriter on GFL Environmental US\$723 million registered block trade of secondary shares	Increase collaboration and connectivity within RBC Capital Markets and across RBC to amplify our holistic approach to serving clients
	Awarded Best Investment Bank in Canada as part of Euromoney's Awards for Excellence in 2024	
	Awarded #1 Broker for in-person roadshows, and joint #2 for virtual roadshows for North American companies (IR Magazine)	
Lead with advice and extend capabilities	Launched our U.S. Cash Management platform, RBC Clear, with strong momentum in client acquisition, leading to multiple industry awards, including:  Outstanding Cash Management Platform and Best Wholesale / Transaction Bank for Digital Customer Experience in the United States (The Digital Banker)	Pursue adjacencies to our existing core capabilities across Corporate & Investment Banking and Global Markets  Scale U.S. Cash Management capabilities across RBC Capital Markets' clients  Lead with advice by accelerating growth in Mergers & Acquisitions (M&A), Equity Capital
	Expanded existing capabilities within credit products and risk solutions	Markets and Risk Solutions  Continue to advance RBC Capital Markets' contribution to RBC's actions on climate
	Advanced RBC Capital Markets' contribution to RBC's actions on climate. A notable client example is:	
	Exclusive financial advisor to Schroders Greencoat on the £700 million acquisition of a U.Kbased solar photovoltaics portfolio, lead underwriter for bridge financing and exclusive financial advisor for subsequent refinancing Lead financial advisor and committed financing to J.M. Smucker Co. on the US\$5.6 billion acquisition of Hostess Brands, Inc.	
Leverage digital and data to deliver innovative solutions	Expanded Aiden®, RBC Capital Markets' Al solution, to drive productivity benefits in Equity Research and select businesses	Scale digital products and generative AI solutions globally across businesses
	Leveraged alternative data sets to provide differentiated research and insights to our clients, resulting in record publications and increased readership	Continue to advance the client digital experience and broaden electronic execution capabilities
Prioritize and align for impact	Reorganized the structure of Global Investment Banking to better align with our clients and drive increased global coordination	Further increase productivity and improve efficiencies through an RBC Capital Markets wide approach
	Launched a refreshed governance framework for productivity and efficiency to strategically focus benefit efforts and address key cost areas	Align investments in operational and technological architecture to business priorities
	Successfully transitioned to a T+1 settlement cycle	
Drive agility and ease of doing business	Simplified our technology infrastructure through consolidation of applications, promotion of platform reuse and retirement of applications that	Further simplify technology infrastructure and automate functional support to improve client and employee experience
	are no longer strategic  Progressed delivery of a streamlined, end-to-end client lifecycle management technology system	Continue to modernize the back-office service model to streamline the client experience while amplifying controls and risk management
	and piloted the new system across select regions and businesses	Continue to expand the scope of the client lifecycle management system
Engage, enable and empower our talent	Invested in leadership capabilities through the launch of a people manager training program	Coach and enable our employees to grow and develop skills to thrive
	Invested in talent across internal promotions, external senior hires, and support for internal mobility	Empower teams to deliver value to our clients and shareholders, and drive our strategic ambitions
	Strengthened our culture of inclusion and belonging through our Employee Resource Group initiatives which provide access to opportunities for growth and development	Develop leaders who create the right conditions for a high-performance culture to unlock the best of RBC  Foster inclusive access to development opportunities and further strengthen our culture

#### Outlook

For fiscal 2025, the macroeconomic outlook, while uncertain, is expected to continue evolving with favourable impacts across our diversified business as interest rates further decline and inflation continues to abate. Amidst these market dynamics, we expect global investment banking fee pools to continue to have strong momentum through fiscal 2025, while global markets industry revenue pools are expected to remain robust. We will continue to pursue market share growth in both our Corporate & Investment Banking and Global Markets businesses. In Investment Banking, we remain focused on key industry sectors and investments in talent, with an emphasis on advisory services. In Global Markets, we expect to continue delivering strong results through acceleration of cross-selling activities, further deployment of electronic and digital capabilities, and building on our strong risk management practices. In Corporate Banking, we will maintain a disciplined growth approach underpinned by strong credit risk management practices to deepen relationships with lending clients and drive stronger performance in our non-lending businesses. Across our businesses, our strategy remains client-centric while optimizing our financial resources, including the ramp up of our Cash Management capabilities in the U.S. We believe this strategy positions us well to navigate the macroeconomic environment, including uncertainty and challenges.

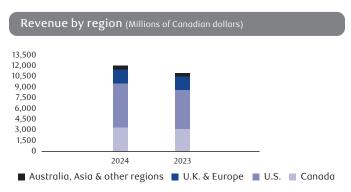
For further details on our general economic review and outlook, refer to the Economic, market and regulatory review and outlook section.

Capital Markets		Table 33
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	2024 (1)	2023
Net interest income (2)	\$ 3,183	\$ 3,379
Non-interest income (2)	8,829	7,672
Total revenue (2)	12,012	11,051
PCL on performing assets	84	125
PCL on impaired assets	340	436
PCL	424	561
Non-interest expense	7,016	6,509
Income before income taxes	4,572	3,981
Net income	\$ 4,573	\$ 4,139
Revenue by business		
Corporate & Investment Banking (3)	\$ 6,399	\$ 5,593
Global Markets (3)	5,879	5,795
Other	(266)	(337)
Key ratios		
ROE (4)	14.2%	14.6%
Selected balance sheet information		
Average total assets	\$ 1,134,300	\$ 1,107,100
Average trading securities	183,400	160,900
Average loans and acceptances, net	148,200	144,900
Average deposits	296,400	291,700
Other information		
Number of employees (FTE)	7,424	7,253
Credit information		
PCL on impaired loans as a % of average net loans and acceptances	0.23%	0.30%

#### Estimated impact of U.S. dollar, British pound and Euro translation on key income statement items

(Millions of Canadian dollars, except percentage amounts)	2024 vs. 2023
Increase (decrease): Total revenue PCL Non-interest expense Net income	\$ 155 6 85 58
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)% (4)% (2)%

- (1) On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, which impacted results, balances and ratios for 2024. For further details, refer to the Key corporate events section.
- (2) The teb adjustment for 2024 was \$294 million (2023 \$559 million). For further discussion, refer to the How we measure and report our business segments section.
- (3) Effective the third quarter of 2024, we moved the majority of our debt origination business from Global Markets to Corporate & Investment Banking. Comparative amounts have been revised from those previously presented.
- (4) Effective November 1, 2023, our attributed capital methodology incorporates leverage requirements to allocate capital to our business segments. For further details on changes to our attributed capital methodology, refer to the How we measure and report our business segments section.



## Financial performance 2024 vs. 2023

Net income increased \$434 million or 10% from last year, mainly due to higher revenue in Corporate & Investment Banking and lower PCL. These factors were partially offset by higher taxes reflecting favourable tax adjustments in the prior year and higher compensation.

Total revenue increased \$961 million or 9%, mainly due to higher debt origination across all regions. Higher M&A activity across most regions, the impact of foreign exchange translation and lower residual funding and capital costs also contributed to the increase. These factors were partially offset by lower fixed income trading revenue across most regions. Equity trading revenue in Canada was also lower primarily due to the elimination of the availability of the dividend received deduction for certain Canadian taxable corporate dividends.

PCL decreased \$137 million or 24%, mainly due to lower provisions on impaired loans, resulting in a decrease of 7 bps in the PCL on impaired loans ratio. Provisions on impaired loans in the current year were largely driven by the real estate and related sector. Lower provisions on performing loans also contributed to the decrease, largely due to favourable changes to our macroeconomic forecast, partially offset by unfavourable changes in credit quality.

Non-interest expense increased \$507 million or 8%, mainly due to higher compensation on increased results, the impact of foreign exchange translation, ongoing technology investments and higher legal provisions.

#### Business line review

#### Corporate & Investment Banking

Corporate & Investment Banking comprises our corporate lending, municipal finance, loan syndication, debt and equity origination, M&A advisory services and transaction banking services. For debt and equity origination, revenue is allocated between Corporate & Investment Banking and Global Markets based on the contribution of each group in accordance with an established agreement. Effective the third quarter of 2024, we moved the majority of our debt origination business from Global Markets to Corporate & Investment Banking. Comparative amounts have been revised from those previously presented.

#### Financial performance

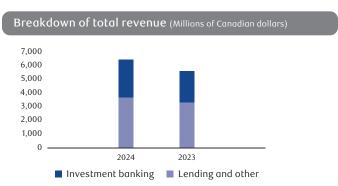
Corporate & Investment Banking revenue of \$6,399 million increased \$806 million or 14% from last year.

Investment banking revenue increased \$462 million or 20%, mainly due to higher M&A activity across most regions and higher debt origination across all regions.

Lending and other revenue increased \$344 million or 10%, mainly due to higher volumes in securitization financing and lending, improved margins in our transaction banking business and the impact of foreign exchange translation.

Selected highlights	Table 34			
(Millions of Canadian dollars)	2024 (1)	2023		
Total revenue (2), (3) Breakdown of total revenue (2)	\$ 6,399	\$ 5,593		
Investment banking (3)	2,745	2,283		
Lending and other (4)	3,654	3,310		
Other information				
Average assets	129,000	125,000		
Average loans and acceptances, net	121,000	117,000		

- (1) On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, which impacted results for 2024. For further details, refer to the Key corporate events section.
- (2) The teb adjustment for the year ended October 31, 2024 was \$265 million (October 31, 2023 – \$135 million). For further discussion, refer to the How we measure and report our business segments section.
- (3) Effective the third quarter of 2024, we moved the majority of our debt origination business from Global Markets to Corporate & Investment Banking. Comparative amounts have been revised from those previously presented.
- (4) Comprises our corporate lending, client securitization, and global credit businesses.



#### **Global Markets**

Global Markets comprises our sales and trading businesses including fixed income, foreign exchange, commodities and equities, as well as our repo and secured financing products. As mentioned above, effective the third quarter of 2024, we moved the majority of our debt origination business from Global Markets to Corporate & Investment Banking. Comparative amounts have been revised from those previously presented.

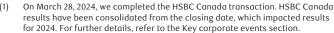
#### Financial performance

Global Markets revenue of \$5,879 million increased \$84 million or 1% from last year.

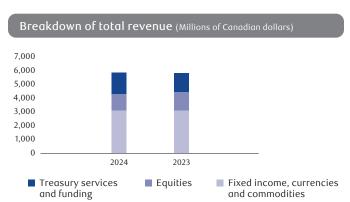
Revenue in our Fixed income, currencies and commodities business remained relatively flat, as higher debt origination primarily in North America was offset by lower fixed income trading revenue across all regions.

Revenue in our Equities business decreased \$99 million or 8%, primarily due to lower equity trading revenue in Canada. Revenue in our Treasury services and funding business increased \$182 million or 13%, primarily due to higher fixed income trading revenue across most regions.

Selected highlights	Table 3			
(Millions of Canadian dollars)	2	2024 (1)		2023
Total revenue (2), (3) Breakdown of total revenue (2)	\$	5,879	\$	5,795
Fixed income, currencies and commodities (3) Equities		3,118 1,210		3,117 1,309
Treasury services and funding (4) Other information		1,551		1,369
Average assets	99	95,000	9	68,000



- (2) The teb adjustment for the year ended October 31, 2024 was \$29 million (October 31, 2023 – \$424 million). For further discussion, refer to the How we measure and report our business segments section.
- (3) Effective the third quarter of 2024, we moved the majority of our debt origination business from Global Markets to Corporate & Investment Banking. Comparative amounts have been revised from those previously presented.
- (4) Comprises our secured funding businesses for internal businesses and external clients.



#### Other

Other includes our legacy portfolios, which mainly consists of U.S. commercial mortgage-backed securities (MBS), bank-owned life insurance (BOLI) derivative contracts and structured rates in Asia.

#### Financial performance

Other revenue improved \$71 million or 22% from last year, primarily reflecting lower residual funding and capital costs.

#### Corporate Support

Corporate Support consists of Technology & Operations, which provides the technological and operational foundation required to effectively deliver products and services to our clients, Functions, which includes our finance, human resources, risk management, internal audit and other functional groups, as well as our Corporate Treasury function. Reported results for Corporate Support mainly reflect enterprise level activities which are not allocated to business segments. For further details, refer to the How we measure and report our business segments section.

Corporate Support		1	able 36
(Millions of Canadian dollars)	2024		2023
Net interest income (loss) (1)	\$ 1,292	\$	1,181
Non-interest income (loss) (1), (2)	(1,534)		(1,442)
Total revenue (1), (2)	(242)		(261)
PCL	-		_
Non-interest expense (2)	1,640		668
Income (loss) before income taxes (1)	(1,882)		(929)
Income taxes (recoveries) (1)	(659)		(160)
Net income (loss)	\$ (1,223)	\$	(769)

Teb adjusted.

<sup>(2)</sup> Revenue for the year ended October 31, 2024, included gains of \$499 million (October 31, 2023 – gains of \$111 million) on economic hedges of our U.S. Wealth Management (including City National) share-based compensation plans, and non-interest expense included \$473 million (October 31, 2023 – \$109 million) of share-based compensation expense driven by changes in the fair value of liabilities relating to our U.S. Wealth Management (including City National) share-based compensation plans.

Due to the nature of activities and consolidation adjustments reported in this segment, we believe that a comparative period analysis is not relevant.

Total revenue and Income taxes (recoveries) in Corporate Support include the deduction of the teb adjustment related to gross-up of income from the U.S. tax credit investment business and income from Canadian taxable corporate dividends received on or before December 31, 2023 that are recorded in Capital Markets. For further details on the elimination of the availability of the dividend received deduction for Canadian taxable corporate dividends after December 31, 2023, refer to the Legal and regulatory environment risk section.

The teb amount for the year ended October 31, 2024 was \$294 million and was \$559 million last year.

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

#### 2024

Net loss was \$1,223 million, primarily due to the after-tax impact of the HSBC Canada transaction and integration costs of \$759 million, which is a specified item. Unallocated costs also contributed to the net loss.

#### 2023

Net loss was \$769 million, primarily due to the impact of the CRD and other tax related adjustments of \$1,050 million, as well as the after-tax impact of the HSBC Canada transaction and integration costs of \$302 million, both of which are specified items. These factors were partially offset by a specified item relating to certain deferred tax adjustments of \$578 million. In addition, the net loss includes an unfavourable impact from residual unallocated items offset by a favourable impact from tax-related items.

For further details on specified items, refer to the Key performance and non-GAAP measures section.

#### Quarterly financial information

#### Fourth quarter performance

#### Q4 2024 vs. Q4 2023

Fourth quarter net income of \$4,222 million was up \$283 million or 7%. Diluted EPS of \$2.91 was up \$0.15 or 5% and ROE of 14.3% was down 60 bps. Our CET1 ratio of 13.2% was down 130 bps from a year ago. The inclusion of HSBC Canada net income contributed \$265 million to total net income. The remaining increase of \$18 million was driven by higher earnings in Wealth Management, Personal Banking and Insurance. This was largely offset by Corporate Support, which reflected the impact of the specified item relating to certain deferred tax adjustments in the prior year.

Total revenue increased \$2,389 million or 19%. The inclusion of HSBC Canada revenue contributed \$743 million to total revenue.

Net interest income increased \$1,129 million or 17%, of which \$607 million reflects the inclusion of HSBC Canada net interest income. The remaining increase of \$522 million or 8% was mainly due to average volume growth and higher spreads in both Personal Banking and Commercial Banking.

Non-interest income increased \$1,260 million or 21%, of which \$136 million reflects the inclusion of HSBC Canada non-interest income. The remaining increase of \$1,124 million or 18% was mainly due to higher fee-based client assets reflecting market appreciation and net sales in Wealth Management, as well as changes in the fair value of the hedges related to our U.S. share-based compensation plans, which was largely offset in Non-interest expense. The impact of economic hedges in Corporate Support and higher average mutual fund balances driving higher distribution fees in Personal Banking also contributed to the increase. The prior period reflected the impact of the specified item relating to impairment losses on our interest in an associated company and a favourable impact from prior period tax-related items.

Total PCL of \$840 million increased \$120 million or 17%, mainly reflecting higher provisions in Commercial Banking and Personal Banking, partially offset by releases of provisions in the current quarter in Wealth Management as compared to provisions taken in the prior year and lower provisions in Capital Markets. The PCL on loans ratio of 35 bps increased 1 bp.

Non-interest expense increased \$960 million or 12%, of which \$306 million reflects the inclusion of HSBC Canada non-interest expense. The remaining increase of \$654 million or 8% was primarily attributable to higher variable compensation costs commensurate with increased revenue, the change in fair value of our U.S. share-based compensation plans, which was largely offset in Other revenue, as well as ongoing technology investments.

Income tax expense increased \$1,026 million, primarily due to the impact of certain deferred tax adjustments in the prior period, which was treated as a specified item, and higher income before income taxes. The effective income tax rate of 19.0% increased 1,980 bps from last year, primarily due to the impact of certain prior period deferred tax adjustments as noted above and the net impact of tax adjustments.

#### Q4 2024 vs. Q3 2024

Net income of \$4,222 million was down \$264 million or 6% compared to last quarter, primarily due to higher PCL. The impact of legal provisions in the current period and lower fixed income trading in Europe and Canada, both in Capital Markets, as well as ongoing technology investments also contributed to the decrease. These factors were partially offset by higher spreads, mainly in Personal Banking, as well as lower taxes, primarily in Capital Markets.

#### 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):

													T	able 37
		20	24				2023 (2)							
Q4	(3)	Q3 (3)		Q2 (3)		Q1		Q4		Q3		Q2		Q1
2,07 5,18	7 6	2,036 4,964	\$	4,163 1,656 4,789	\$	4,031 1,613 4,687	\$	4,009 1,565 4,332	\$	3,898 1,511 4,556	\$	3,711 1,433 4,548	\$	3,853 1,523 4,725
2,90	3	3,004 (148)		3,154 94		363 2,951 (160)		248 2,564 (33)		336 2,679 (3)		2/2 2,662 (181)		154 3,146 (44)
84	0	14,631 659 8,599		14,154 920 8,308		13,485 813 8,324		12,685 720 8,059		12,977 616 7,765		12,445 600 7,400		13,357 532 7,589
,		5,373 887		4,926 976		4,348 766		3,906 (33)		4,596 736		4,445 765		5,236 2,103
\$ 4,22	2	\$ 4,486	\$	3,950	\$	3,582	\$	3,939	\$	3,860	\$	3,680	\$	3,133
	_	\$ 3.09 3.09	\$	2.75 2.74	\$	2.50 2.50	\$	2.77 2.76	\$	2.73 2.73	\$	2.60 2.60	\$	2.23 2.23
		16.5% \$ 0.730	Ś	19.8%	Ś	17.6% 0.745	Ś	(0.8)%	Ś	16.0% 0.750	Ś	17.2% 0.737	Ś	40.2% 0.745
	\$ 4,65 2,07 5,18 27 2,90 (2 15,07 84 9,01 5,21 99 \$ 4,22 \$ 2.9 2.9	2,077 5,186 278 2,903 (28) 15,074 840 9,019 5,215 993 \$ 4,222 \$ 2.92 2.91 19.0%	Q4 (3)         Q3 (3)           \$ 4,658         \$ 4,490           2,077         2,036           5,186         4,964           278         285           2,903         3,004           (28)         (148)           15,074         14,631           840         659           9,019         8,599           5,215         5,373           993         887           \$ 4,222         \$ 4,486           \$ 2.92         \$ 3.09           2.91         3.09           19.0%         16.5%	\$ 4,658 \$ 4,490 \$ 2,077 2,036 5,186 4,964 278 285 2,903 3,004 (148)  15,074 14,631 840 659 9,019 8,599  5,215 5,373 993 887  \$ 4,222 \$ 4,486 \$ \$ 2.92 \$ 3.09 \$ 2.91 3.09  19.0% 16.5%	Q4 (3)         Q3 (3)         Q2 (3)           \$ 4,658         \$ 4,490         \$ 4,163           2,077         2,036         1,656           5,186         4,964         4,789           278         285         298           2,903         3,004         3,154           (28)         (148)         94           15,074         14,631         14,154           840         659         920           9,019         8,599         8,308           5,215         5,373         4,926           993         887         976           \$ 4,222         \$ 4,486         \$ 3,950           \$ 2.92         \$ 3.09         \$ 2.75           2.91         3.09         2.74           19.0%         16.5%         19.8%	Q4 (3)         Q3 (3)         Q2 (3)           \$ 4,658         \$ 4,490         \$ 4,163         \$ 2,077           2,077         2,036         1,656           5,186         4,964         4,789           278         285         298           2,903         3,004         3,154           (28)         (148)         94           15,074         14,631         14,154           840         659         920           9,019         8,599         8,308           5,215         5,373         4,926           993         887         976           \$ 4,222         \$ 4,486         \$ 3,950         \$           \$ 2.92         \$ 3.09         \$ 2.75         \$           2.91         3.09         2.74           19.0%         16.5%         19.8%	Q4 (3)         Q3 (3)         Q2 (3)         Q1           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031           2,077         2,036         1,656         1,613           5,186         4,964         4,789         4,687           278         285         298         363           2,903         3,004         3,154         2,951           (28)         (148)         94         (160)           15,074         14,631         14,154         13,485           840         659         920         813           9,019         8,599         8,308         8,324           5,215         5,373         4,926         4,348           993         887         976         766           \$ 4,222         \$ 4,486         \$ 3,950         \$ 3,582           \$ 2.92         \$ 3.09         \$ 2.75         \$ 2.50           2.91         3.09         2.74         2.50           19.0%         16.5%         19.8%         17.6%	Q4 (3)         Q3 (3)         Q2 (3)         Q1           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 2,077           2,077         2,036         1,656         1,613           5,186         4,964         4,789         4,687           278         285         298         363           2,903         3,004         3,154         2,951           (28)         (148)         94         (160)           15,074         14,631         14,154         13,485           840         659         920         813           9,019         8,599         8,308         8,324           5,215         5,373         4,926         4,348           993         887         976         766           \$ 4,222         \$ 4,486         \$ 3,950         \$ 3,582         \$           \$ 2.92         \$ 3.09         \$ 2.75         \$ 2.50         \$           19.0%         16.5%         19.8%         17.6%	Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009           2,077         2,036         1,656         1,613         1,565           5,186         4,964         4,789         4,687         4,332           278         285         298         363         248           2,903         3,004         3,154         2,951         2,564           (28)         (148)         94         (160)         (33)           15,074         14,631         14,154         13,485         12,685           840         659         920         813         720           9,019         8,599         8,308         8,324         8,059           5,215         5,373         4,926         4,348         3,906           993         887         976         766         (33)           \$ 4,222         \$ 4,486         3,950         \$ 3,582         \$ 3,939           \$ 2.92         \$ 3.09         \$ 2.75         \$ 2.50         \$ 2.77           2.91         3.09         2.74         2.50         2.76           19.0%         16.5	Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009         \$ 2,077         2,036         1,656         1,613         1,565         \$ 5,186         4,964         4,789         4,687         4,332         248         2,903         3,004         3,154         2,951         2,564         2,564         (28)         (148)         94         (160)         (33)           15,074         14,631         14,154         13,485         12,685         840         659         920         813         720         9,019         8,599         8,308         8,324         8,059           5,215         5,373         4,926         4,348         3,906         993         887         976         766         (33)           \$ 4,222         \$ 4,486         \$ 3,950         \$ 3,582         \$ 3,939         \$           \$ 2.92         \$ 3.09         \$ 2.75         \$ 2.50         \$ 2.77         \$           2.91         3.09         2.74         2.50         2.76           19.0%         16.5%         19.8%         17.6%         (0.8)%	Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4         Q3           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009         \$ 3,898           2,077         2,036         1,656         1,613         1,565         1,511           5,186         4,964         4,789         4,687         4,332         4,556           278         285         298         363         248         336           2,903         3,004         3,154         2,951         2,564         2,679           (28)         (148)         94         (160)         (33)         (3)           15,074         14,631         14,154         13,485         12,685         12,977           840         659         920         813         720         616           9,019         8,599         8,308         8,324         8,059         7,765           5,215         5,373         4,926         4,348         3,906         4,596           993         887         976         766         (33)         736           \$ 4,222         \$ 4,486         \$ 3,950         \$ 3,582         \$ 3,939         \$ 3,860	Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4         Q3           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009         \$ 3,898         \$           2,077         2,036         1,656         1,613         1,565         1,511         5,186         4,964         4,789         4,687         4,332         4,556         278         285         298         363         248         336         2,903         3,004         3,154         2,951         2,564         2,679         2,679         2,564         2,679         2,685         12,977         3,68         3,24         3,685         12,977         3,684         3,268         3,290         6,16         3,268         12,977         3,68         3,24         3,059         7,765         3,73         4,926         4,348         3,906         4,596         3,968         4,222         4,486         3,950         3,582         3,939         3,860         \$           \$ 2,92         3.09         2.75         \$ 2.50         \$ 2.77         \$ 2.73         \$           2.91         3.09         2.74         2.50         2.76         2.73           19.0%         16.5%         19.8% <t< td=""><td>Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4         Q3         Q2           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009         \$ 3,898         \$ 3,711           2,077         2,036         1,656         1,613         1,565         1,511         1,433           5,186         4,964         4,789         4,687         4,332         4,556         4,548           278         285         298         363         248         336         272           2,903         3,004         3,154         2,951         2,564         2,679         2,662           (28)         (148)         94         (160)         (33)         (3)         (181)           15,074         14,631         14,154         13,485         12,685         12,977         12,445           840         659         920         813         720         616         600           9,019         8,599         8,308         8,324         8,059         7,765         7,400           5,215         5,373         4,926         4,348         3,906         4,596         4,445           993         887         976         766</td><td>Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4         Q3         Q2           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009         \$ 3,898         \$ 3,711         \$ 2,077         \$ 2,036         1,656         1,613         1,565         1,511         1,433         \$ 1,433         \$ 1,565         1,511         1,433         \$ 1,433         \$ 1,565         1,511         1,433         \$ 1,518         \$ 1,433         \$ 1,434         \$ 1,434         \$ 1,434         \$ 1,434         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445</td></t<>	Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4         Q3         Q2           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009         \$ 3,898         \$ 3,711           2,077         2,036         1,656         1,613         1,565         1,511         1,433           5,186         4,964         4,789         4,687         4,332         4,556         4,548           278         285         298         363         248         336         272           2,903         3,004         3,154         2,951         2,564         2,679         2,662           (28)         (148)         94         (160)         (33)         (3)         (181)           15,074         14,631         14,154         13,485         12,685         12,977         12,445           840         659         920         813         720         616         600           9,019         8,599         8,308         8,324         8,059         7,765         7,400           5,215         5,373         4,926         4,348         3,906         4,596         4,445           993         887         976         766	Q4 (3)         Q3 (3)         Q2 (3)         Q1         Q4         Q3         Q2           \$ 4,658         \$ 4,490         \$ 4,163         \$ 4,031         \$ 4,009         \$ 3,898         \$ 3,711         \$ 2,077         \$ 2,036         1,656         1,613         1,565         1,511         1,433         \$ 1,433         \$ 1,565         1,511         1,433         \$ 1,433         \$ 1,565         1,511         1,433         \$ 1,518         \$ 1,433         \$ 1,434         \$ 1,434         \$ 1,434         \$ 1,434         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445         \$ 1,445

- Fluctuations in the Canadian dollar relative to other foreign currencies have affected our consolidated results over the period.
- Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual (2) Consolidated Financial Statements for further details on these changes.
- On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, and are included in our Personal (3) Banking, Commercial Banking, Wealth Management and Capital Markets segments. For further details, refer to the Key corporate events section.
- Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing moved from the previous Personal & Commercial Banking segment to the Wealth Management segment. Amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.
- Teb adjusted. For further discussion, refer to the How we measure and report our business segments section.

#### 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 generally results in lower client activity and may negatively impact the results of our Capital Markets trading business.

#### Trend analysis

Earnings over the period have been impacted by the factors noted below.

Personal Banking revenue has benefitted from volume growth in loans and deposits over the period. NIM has been favourably impacted by the higher interest rate environment, partially offset by competitive pricing pressures. HSBC Canada revenue has been included since the transaction closed on March 28, 2024.

Commercial Banking revenue has benefitted from volume growth in loans and deposits over the period. HSBC Canada revenue has been included since the transaction closed on March 28, 2024.

Wealth Management revenue has generally benefitted from growth in average fee-based client assets, which was impacted by market conditions. On July 3, 2023, we completed the sale of the European asset servicing activities of RBC Investor Services and its associated Malaysian centre of excellence. The fourth quarter of 2023 reflected impairment losses on our interest in an associated company.

As part of our adoption of IFRS 17, effective November 1, 2023, fluctuations in Insurance revenue are reflective of market conditions and insurance experience, while new business gains are deferred through CSM.

Capital Markets revenue is influenced, to a large extent, by market conditions that impact client activity. While investment banking fee pools were muted in 2023, we saw an increase in activity beginning the second quarter of 2024, during which we also improved market share across all major products. Sales & trading activity increased in 2023 and carried strong momentum into 2024.

PCL is comprised of provisions taken on performing assets and provisions taken on impaired assets. PCL on performing assets fluctuated over the period as it is impacted by changes in credit quality, macroeconomic conditions and exposures. Provisions on performing assets over the period have generally been reflective of unfavourable changes in credit quality. During the early part of the period, there were unfavourable changes in our macroeconomic forecast. Starting in 2024, we have seen improvements in our macroeconomic forecast. The second quarter of 2024 includes initial PCL on performing loans purchased in the HSBC Canada transaction. PCL on impaired assets was low during the early part of the period, but has generally trended upwards over the remainder of the period.

Non-interest expense has been impacted by fluctuations in variable compensation over the period, commensurate with fluctuations in revenue and earnings. Changes in the fair value of our U.S. share-based compensation plans, which are largely offset in revenue, have also contributed to fluctuations over the period and are impacted by market conditions. While we continue to focus on efficiency management activities, expenses over the period also reflect investments in staff and technology. Beginning in fiscal 2023, expenses have also included HSBC Canada transaction and integration costs. HSBC Canada non-interest expenses have been included since the transaction closed on March 28, 2024.

Our effective income tax rate has fluctuated over the period, mostly due to varying levels of tax adjustments and changes in earnings mix. The first quarter of 2023 reflects the impact of the CRD and other tax related adjustments. The fourth quarter of 2023 reflects the recognition of deferred tax assets relating to realized losses in City National associated with the intercompany sale of certain debt securities.

#### Financial condition

#### Condensed balance sheets

		Table 38
As at October 31 (Millions of Canadian dollars)	2024	2023 (1)
Assets		
Cash and due from banks	\$ 56,723	\$ 61,989
Interest-bearing deposits with banks	66,020	71,086
Securities, net of applicable allowance (2)	439,918	409,730
Assets purchased under reverse repurchase agreements and securities borrowed	350,803	340,191
Loans		
Retail	626,978	569,951
Wholesale	360,439	287,826
Allowance for loan losses	(6,037)	(5,004)
Other – Derivatives	150,612	142,450
– Other	126,126	128,312
Total assets	\$ 2,171,582	\$ 2,006,531
Liabilities		
Deposits	\$ 1,409,531	\$ 1,231,687
Other – Derivatives	163,763	142,629
– Other	457,550	505,682
Subordinated debentures	13,546	11,386
Total liabilities	2,044,390	1,891,384
Equity attributable to shareholders	127,089	115,048
Non-controlling interests	103	99
Total equity	127,192	115,147
Total liabilities and equity	\$ 2,171,582	\$ 2,006,531

<sup>(1)</sup> Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.

#### 2024 vs. 2023

Total assets increased \$165 billion or 8% from October 31, 2023. Foreign exchange translation decreased total assets by \$30 billion.

Cash and due from banks decreased \$5 billion or 8%, largely due to lower deposits with central banks reflecting short-term cash management activities.

Interest-bearing deposits with banks decreased \$5 billion or 7%, mainly due to lower deposits with central banks reflecting short-term cash management activities.

Securities, net of applicable allowance, increased \$30 billion or 7%, largely due to higher equity trading securities reflecting favourable market conditions, as well as the impact of the HSBC Canada transaction. These factors were partially offset by lower Canadian government debt securities primarily reflecting liquidity management activities.

Assets purchased under reverse repurchase agreements (reverse repos) and securities borrowed increased \$11 billion or 3%, mainly due to liquidity management activities.

Loans (net of Allowance for loan losses) increased \$129 billion or 15%, primarily due to the impact of the HSBC Canada transaction and growth in wholesale loans, including the impact from the cessation of Bankers' Acceptance-based lending as part of interest rate benchmark reform. For further details on interest rate benchmark reform refer to the Legal and regulatory environment risk section.

Derivative assets increased \$8 billion or 6%, mainly attributable to higher fair values on foreign exchange and equity contracts partially offset by the impact of foreign exchange translation and lower fair values on interest rate contracts.

Other assets decreased \$2 billion or 2%, largely due to lower customers' liability under acceptances from the cessation of Bankers' Acceptance-based lending as noted above, partially offset by higher goodwill and intangible assets from the impact of the HSBC Canada transaction.

Total liabilities increased \$153 billion or 8%. Foreign exchange translation decreased total liabilities by \$30 billion.

Deposits increased \$178 billion or 14%, primarily due to the impact of the HSBC Canada transaction, higher personal and business deposits driven by increased client activity and investment preferences, as well as an increase in the issuance of long-term notes for funding requirements.

Derivative liabilities increased \$21 billion or 15%, mainly attributable to higher fair values on foreign exchange and equity contracts, partially offset by the impact of foreign exchange translation and lower fair values on interest rate contracts.

<sup>(2)</sup> Securities are comprised of trading and investment securities.

Other liabilities decreased \$48 billion or 10%, primarily due to lower obligations related to repurchase agreements (repos) reflecting decreased funding requirements, as well as lower acceptances from the cessation of Bankers' Acceptance-based lending as noted above.

Subordinated debentures increased by \$2 billion or 19%, reflecting new issuances, net of redemptions.

Total equity increased \$12 billion or 10%, reflecting earnings, net of dividends, and the net issuance of common shares, limited recourse capital notes and preferred shares.

#### 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, liquidity and funding risk, which are discussed in the Risk management section.

We use structured entities to securitize our financial assets as well as assist our clients in securitizing their financial assets. These entities are not operating entities, typically have no employees, and may or may not be recorded on our Consolidated Balance Sheets.

In the normal course of business, we engage in a variety of financial transactions that may qualify for derecognition. We apply the derecognition rules to determine whether we have transferred substantially all the risks and rewards or control associated with the financial assets to a third party. If the transaction meets specific criteria, it may qualify for full or partial derecognition from our Consolidated Balance Sheets.

#### Securitizations of our financial assets

We periodically securitize our credit card receivables and residential and commercial mortgage loans primarily to diversify our funding sources, enhance our liquidity position and for capital purposes. We also securitize residential and commercial mortgage loans as part of our sales and trading activities.

We securitize our credit card receivables, on a revolving basis, through a consolidated structured entity. We securitize single and multiple-family residential mortgages through the National Housing Act Mortgage-Backed Securities (NHA MBS) program. The majority of our securitization activities are recorded on our Consolidated Balance Sheets as we do not meet the derecognition criteria. During 2024, we derecognized \$122 million (October 31, 2023 – \$nil) of mortgages securitized through the NHA MBS program. For further details, refer to Note 7 and Note 8 of our 2024 Annual Consolidated Financial Statements.

We also periodically securitize commercial mortgage loans by selling them in collateral pools, which meet certain diversification, leverage and debt coverage criteria, to structured entities, one of which is sponsored by us. Securitized commercial mortgage loans are derecognized from our Consolidated Balance Sheets as we have transferred substantially all of the risks and rewards of ownership of the securitized assets. During the year ended October 31, 2024, we did not securitize any commercial mortgages (October 31, 2023 – \$nil). Our continuing involvement with the transferred assets is limited to servicing certain of the underlying commercial mortgages sold. As at October 31, 2024, there was \$1 billion of commercial mortgages outstanding that we continue to service related to these securitization activities (October 31, 2023 – \$2 billion).

#### Involvement with unconsolidated structured entities

In the normal course of business, we engage in a variety of financial transactions with structured entities to support our customers' financing and investing needs, including securitization of our clients' financial assets, creation of investment products, and other types of structured financing.

We have the ability to use credit mitigation tools such as third-party guarantees, credit default swaps, and collateral to mitigate risks assumed through securitization and re-securitization exposures. The process in place to monitor the credit quality of our securitization and re-securitization exposures involves, among other things, reviewing the performance data of the underlying assets. We affirm our ratings each quarter and formally confirm or assign a new rating at least annually. For further details on our activities to manage risks, refer to the Risk management section.

Below is a description of our activities with respect to certain significant unconsolidated structured entities. For a complete discussion of our interests in consolidated and unconsolidated structured entities, refer to Note 8 of our 2024 Annual Consolidated Financial Statements.

#### Multi-seller conduits

We administer multi-seller conduits which are used primarily for the securitization of our clients' financial assets. Our clients primarily use our multi-seller conduits to diversify their financing sources and to reduce funding costs by leveraging the value of high-quality collateral. The conduits offer us a favourable revenue stream and risk-adjusted return.

We provide services such as transaction structuring, administration, backstop liquidity facilities and credit enhancements to the multi-seller conduits. Revenue for all such services amounted to \$437 million during the year (October 31, 2023 – \$387 million).

Our total commitment to the conduits in the form of backstop liquidity and credit enhancement facilities is shown below. The total committed amount of these facilities exceeds the total amount of the maximum assets that may have to be purchased by the conduits under the purchase agreements. As a result, the maximum exposure to loss attributable to our backstop liquidity and credit enhancement facilities is less than the total committed amounts of these facilities.

Liquidity and credit enhancement facilities						Table 39
		2024			2023	
As at October 31 (Millions of Canadian dollars)	Notional of committed amounts (1)	Allocable notional amounts	Maximum exposure to loss (2)	Notional of committed amounts (1)	Allocable notional amounts	Maximum exposure to loss (2)
Backstop liquidity facilities Credit enhancement facilities (3)	\$ 56,511 3,500	\$ 53,011 3,500	\$ 53,247 3,500	, ,	\$ 51,469 3,244	\$ 51,469 3,244
Total	\$ 60,011	\$ 56,511	\$ 56,747	\$ 57,957	\$ 54,713	\$ 54,713

- Based on total committed financing limit.
- (2) Not presented in the table above are derivative assets with a fair value of \$32 million (October 31, 2023 \$2 million) which are a component of our total maximum exposure to loss from our interests in the multi-seller conduits. Refer to Note 8 of our 2024 Annual Consolidated Financial Statements for more details.
- (3) Includes \$18 million (October 31, 2023 \$18 million) of Financial standby letters of credit.

As at October 31, 2024, the notional amount of backstop liquidity facilities we provide increased \$1,798 million or 3% from last year, primarily due to an increase in outstanding securitized assets of the multi-seller conduits. The notional amount of credit enhancement facilities we provide increased \$256 million or 8% from last year, primarily due to an increase in the amount required by the conduits.

Maximum exposure to loss by asset type									T	able 40
		2024	2023							
As at October 31 (Millions of dollars)	US\$		C\$	Total C\$		US\$		C\$		Total C\$
Outstanding securitized assets										
Auto and truck loans and leases	\$ 12,882	\$	4,478	\$ 22,409	\$	11,197	\$	3,874	\$	19,402
Consumer loans	4,931		_	6,864		4,170		_		5,783
Credit cards	3,180		510	4,937		4,226		510		6,371
Dealer floor plan receivables	1,063		683	2,163		1,075		592		2,083
Equipment receivables	1,639		236	2,517		2,086		965		3,858
Fleet finance receivables	2,227		255	3,355		1,835		190		2,735
Commercial loans	701		592	1,567		542		530		1,282
Residential mortgages	_		2,295	2,295		_		1,785		1,785
Student loans	1,789		142	2,632		2,312		141		3,348
Trade receivables	3,132		-	4,359		2,954		_		4,097
Transportation finance	2,512		153	3,649		2,752		153		3,969
Total	\$ 34,056	\$	9,344	\$ 56,747	\$	33,149	\$	8,740	\$	54,713
Canadian equivalent	\$ 47,403	\$	9,344	\$ 56,747	\$	45,973	\$	8,740	\$	54,713

Our overall exposure increased \$2 billion or 4% compared to last year, primarily due to an increase in the outstanding securitized assets of the multi-seller conduits. All of the multi-seller conduits transactions were internally rated A or above. All transactions funded by the unconsolidated multi-seller conduits are internally rated using a rating system as outlined in the internal ratings map in the credit risk section.

Multiple independent debt rating agencies review all of the transactions in the multi-seller conduits. Transactions financed in the U.S. multi-seller conduits are reviewed by Moody's Investors Service (Moody's‡), Standard & Poor's (S&P‡) and Fitch Ratings (Fitch‡). Transactions in two of the Canadian multi-seller conduits are reviewed by DBRS Morningstar (DBRS‡) and Moody's while one of the Canadian multi-seller conduits is also reviewed by S&P. Each applicable rating agency also reviews ongoing transaction performance on a monthly basis and may publish reports detailing portfolio and program information related to the conduits.

As at October 31, 2024, the total asset-backed commercial paper (ABCP) issued by the conduits amounted to \$37 billion, flat from last year. The rating agencies that rate the ABCP rated 100% (October 31, 2023 – 100%) of the total amount issued within the top ratings category.

#### Structured finance

We provide liquidity facilities to certain municipal bond tender option bond trusts in which we have an interest but do not consolidate because the residual certificates issued by the tender option bond trusts are held by third parties. As at October 31, 2024, our maximum exposure to loss from these unconsolidated municipal bond tender option bond trusts was \$3 billion (October 31, 2023 – \$3 billion).

We provide senior warehouse financing to unaffiliated structured entities that are established by third parties to acquire loans and issue term collateralized loan obligations (CLO). Subordinated financing is provided during the warehouse phase by either the collateral manager or third-party investors. Subordinated financing serves as the first loss tranche which absorbs losses prior to ourselves as the senior lender. A portion of the proceeds from the sale of the term CLO is used to fully repay the senior warehouse financing that we provide. As at October 31, 2024, our maximum exposure to loss associated with the outstanding senior warehouse financing facilities was \$704 million (October 31, 2023 – \$796 million). The decrease in our maximum exposure to loss from last year was driven by the repayment of existing financing facilities partially offset by the addition of new financing facilities.

We provide senior financing to unaffiliated structured entities that are established by third parties to acquire loans. Subordinated financing is provided by either the collateral manager or third-party investors. Subordinated financing serves as the first loss tranche which absorb losses prior to ourselves as the senior lender. These facilities tend to be longer in term than the CLO warehouse facilities and benefit from credit enhancement designed to cover a multiple of historical losses. As at October 31, 2024, our maximum exposure to loss associated with the outstanding senior financing facilities was \$8 billion (October 31, 2023 – \$6 billion). The increase in our maximum exposure to loss from last year was driven by the addition of new financing facilities partially offset by the repayment of existing financing facilities.

#### Non-RBC managed investment funds

We invest in hedge funds primarily to provide clients with desired exposures to reference funds. As we make investments in the reference funds, exposures to the funds are simultaneously transferred to clients through derivative transactions. Our maximum exposure to loss in the reference funds is limited to our investments in the funds. As at October 31, 2024, our maximum exposure to loss was \$3 billion (October 31, 2023 – \$2 billion). The increase in our maximum exposure to loss from last year was driven by an increase in our holding of third-party investment funds and market appreciation.

We also provide liquidity facilities to certain third-party investment funds. The funds issue unsecured variable-rate preferred shares and invest in portfolios of tax-exempt bonds. As at October 31, 2024, our maximum exposure to loss on these funds was \$948 million (October 31, 2023 – \$632 million). The increase in our maximum exposure to loss from last year was largely driven by an increase in our holding of third-party investment funds.

#### Third-party securitization vehicles

We hold interests in certain unconsolidated third-party securitization vehicles, which are structured entities. We, as well as other financial institutions, are obligated to provide funding to these entities up to our maximum commitment level and are exposed to credit losses on the underlying assets after various credit enhancements. As at October 31, 2024, our maximum exposure to loss in these entities was \$21 billion (October 31, 2023 – \$15 billion). The increase in our maximum exposure to loss compared to last year reflects an increase in client activity with third-party securitization vehicles. Interest and non-interest income earned in respect of these investments was \$698 million (October 31, 2023 – \$528 million).

#### Other

Other unconsolidated structured entities include managed investment funds, arrangements to pass credit risk to third parties, credit investment products and tax credit funds. Refer to Note 8 of our 2024 Annual Consolidated Financial Statements for more details regarding our other unconsolidated structured entities.

#### Guarantees, retail and commercial commitments

We provide our clients with guarantees and commitments that expose us to liquidity and funding risks. Our maximum potential amount of future payments in relation to our commitments and guarantee products as at October 31, 2024 amounted to \$551 billion compared to \$496 billion last year. The increase compared to last year was primarily driven by growth in sponsored member guarantees, other commitments to extend credit and performance guarantees. Refer to Liquidity and funding risk section and Note 23 of our 2024 Annual Consolidated Financial Statements for details regarding our guarantees and commitments.

#### Risk management

We are in the business of managing the risks inherent to the financial services industry as we aim to create maximum value for our shareholders, clients, employees and communities. The ability to manage risk is a core competency of the bank, and is supported by our risk-aware culture and risk management approach. Our view of risks is dynamic, and reflects the pace of change in the financial services industry.

#### Top and emerging risks

An important component of our risk management approach is to seek to ensure that top and emerging risks, as they evolve, are identified, managed and incorporated into our existing risk management assessment, measurement, monitoring and escalation processes and addressed in our risk frameworks and policies. These practices are intended to ensure a forward-looking risk assessment is maintained by management in the course of business development and as part of the execution of ongoing risk oversight responsibilities. Top and emerging risks are discussed by senior management and the Board on a regular basis.

We have developed supplementary internal guidance to support enterprise-wide identification and assessment of all material risks, including those that are not readily apparent. Top and emerging risks encompass those that could materially impact our financial results, financial and operational resilience, reputation, business model or strategy, as well as those that may materially impact us as the risks evolve. The following represents our top and emerging risks:

#### Top & emerging risks

#### Description

Business and economic conditions



Our financial results are affected to varying degrees by the general business and economic conditions in the geographic regions in which we operate. These conditions may include factors such as: economic growth or contraction trends; consumer saving and spending habits; consumer and corporate borrowing and repayment patterns; unemployment rates; the differing economic trajectories among nations across the globe; global tensions and geopolitical uncertainty and conflicts; the level of business investment and overall business sentiment; trade policy developments; the emergence of a new outbreak of a pandemic or other health crisis; the level of government spending, as well as fiscal and monetary policy; the level of activity and volatility of the financial markets; disruptions to energy and other commodity markets; competitiveness; supply chain challenges and labour shortages; the evolution of inflationary pressures; and possible stagflation or deflation. Moreover, interest rate changes and actions taken by central banks to manage inflation, deflation or the broader economy have implications for us. Our financial results are sensitive to changes in interest rates, as described in the Government fiscal, monetary and other policies section.

For example, a slowdown in economic growth or an economic downturn could adversely impact employment rates and household incomes, consumer spending, housing prices, corporate earnings and business investment, and could adversely affect our business, including, but not limited to, the demand for our loan and other products, and result in lower earnings and higher credit losses. In addition to risks arising from monetary policy uncertainty (e.g., the pace and magnitude of monetary easing), risks are also emerging around how governments manage elevated debt burdens and how they may introduce new support measures provided to deal with emerging economic challenges. This may include, for example, changes to tax policy to address fiscal capacity concerns and to balance budgets in the future.

There are also emerging risks related to wealth and income inequality, as well as changing demographics and immigration, which could impact the labour market, the housing market, inflation, demand and consumer trends, and potentially have broader societal and government policy implications.

Canadian housing and household indebtedness



Canadian housing and household indebtedness risks remain heightened given the current interest rate environment and affordability challenges. Concerns around the ability of Canadian households to meet debt obligations could escalate if interest rates remain elevated for longer, if there is a resurgence in inflation, or if the job market deteriorates significantly, potentially resulting in, among other things, higher credit losses or reduced housing market activity. Moreover, slowing economic growth could further adversely impact housing market activity and housing prices, which could push loan-to-value (LTV) ratios higher and further increase credit losses.

While interest rates have started to decline, a slowdown in the real estate rental market, challenging affordability conditions, an increase in condominium supply, and elevated borrowing and construction costs, may have an adverse impact on future real estate investment and demand. The combination of multiple challenges, including but not limited to elevated home prices, high debt levels, an increasingly high cost of living, a rising unemployment rate and government policy uncertainty (e.g., immigration policy), may make key Canadian housing markets particularly vulnerable to a potential economic shock or financial instability.

Information technology, cyber and third-party risks



Information technology (IT) risk, cyber risks and third-party risk remain top risks, not only for the financial services sector, but for other industries worldwide. Geopolitical tensions have increased the risk of nation state actors attacking critical infrastructure, including banks and critical third parties. We continue to be subject to the heightened inherent risk of cyberattacks, data breaches, cyber extortion and similar compromises, due to: (i) the size, scale and global nature of our operations; (ii) our heavy reliance on the internet to conduct day-to-day business activities; (iii) our intricate technological infrastructure; and (iv) our reliance on third-party service providers. Our potential exposure to these risks increases as we continue to partner with third-party service providers and adopt new business models and technologies (e.g., cloud computing, software-as-a-service (SAAS), generative artificial intelligence (GenAI) and machine learning). Threat actors gravitate towards vulnerabilities in an ecosystem, and the weakest link in the supply chain can be a supplier or third-party service provider that may not have sufficiently robust controls. Other key drivers of third-party risk include global economic pressures related to inflation, and concentration of suppliers and fourth parties (i.e. suppliers of our third-party providers) within the broader supply chain. Third-party providers critical to our operations are actively monitored for impacts on their ability to deliver services to us, including impacts resulting from fourth parties.

Ransomware threats continue to grow in sophistication and be used to launch major supply chain attacks. Resulting implications could include business interruptions, client service disruptions, financial loss, theft of intellectual property and confidential information, litigation, enhanced regulatory attention and penalties, as well as reputational damage. Furthermore, the adoption of emerging technologies, such as cloud computing, AI, including GenAI, and robotics, call for continued focus and investment to manage risks effectively. For more details on how we are managing these risks, refer to the Operational risk section.

#### Description

#### Geopolitical uncertainty



Tensions remain elevated between China and the U.S. and its allies over a number of issues including trade, technology, human rights, Taiwan, Hong Kong and Macau. Moreover, these tensions produce additional vulnerabilities to the Canadian economy given the country's trading relationships with the U.S. and China, Canada's two largest trading partners. Tensions among China and its neighbours over territorial claims, and the prospect of even closer relations between China, Russia, Iran and North Korea, add further global and economic uncertainty. Additionally, continued weakening in the Chinese economy, driven by real estate sector decline and consumer demand related challenges, may be exported globally and negatively impact global economic growth.

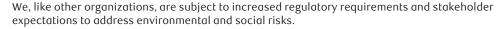
The lead-up to the U.S. elections saw elevated levels of political polarization and threats of violence. The uncertainty produced by the elections could impact RBC's business and operations, as well as generate broader economic and market impacts.

Geopolitical tensions in the Middle East and other regions, such as the Korean Peninsula, continue to add to economic and market uncertainties. In particular, Middle East tensions may further destabilize global security, supply chains, markets and economic growth, along with key commodity markets. In addition, an uncertain geopolitical or economic environment could lead to further increases in polarization, social unrest or terrorism, each of which could have direct or indirect impacts to the bank.

In 2024, the Russia-Ukraine conflict continued to produce turmoil in the geopolitical landscape, with ongoing impacts to the global economy and markets. Domestic disturbances in Russia may also signal weakening internal stability. This, along with Ukraine's incursions into Russia, could portend growing tail risks associated with Russia-West tensions. The duration and path of the conflict remain uncertain and could continue to exacerbate global tensions, energy and other commodity shortages, supply chain disruptions, inflationary pressures, weakening sentiment and growth prospects, market volatility, cyberattacks, and the proliferation of sanctions and trade measures. In particular, Europe continues to face uncertainty given its military and trade relationships with impacted regions and its weakening economic prospects.

More broadly, the future of global trade remains uncertain, as countries look to decrease reliance on the global supply chain and nations with differing values. Increased global polarization, protectionist measures, including protectionist trade policies and the imposition of tariffs, and economic nationalism could reshape global alliances and financial systems as the supply of critical goods of economic and national importance (e.g., energy, critical minerals, semiconductors) remains one of the top priorities of governments. Furthermore, a volatile geopolitical environment could generate an increase in espionage and foreign interference activities that indirectly or directly impact the financial services sector. We will continue to monitor these developments and others, and will assess the implications they have on us.

## Environmental and social risk





Environmental and social risks are unique and transverse in nature and may impact our principal risks in different ways and to varying degrees, including but not limited to strategic, operational, credit, reputation and compliance risks.

For details on how we are managing environmental and social risk, refer to the Overview of other risks – Environmental and Social risk section, and the Legal and regulatory environment risk section.

## Digital disruption and innovation



As the demand for digital banking services grows, the need to meet the rapidly evolving needs of clients and compete with traditional and non-traditional competitors has increased our strategic and reputation risks. Additional risks continue to emerge as demographic trends, evolving client expectations, the increased power to analyze data and the emergence of disruptors are creating competitive pressures across a number of sectors. Moreover, established technology companies, new competitors and regulatory changes continue to foster new business models that could challenge traditional banks and financial products. Finally, while the adoption of new technologies, such as AI (including GenAI) and machine learning, presents opportunities for us, it is resulting or could result in new and complex strategic, operational, regulatory, compliance and reputation risks that would need to be managed effectively.

## Privacy and data related risks



The protection and responsible use of Personal Information (PI) are critical to maintaining our clients' trust. PI is information entrusted to RBC that identifies an individual or can be reasonably used to identify an individual and can relate to current, former and prospective clients, employees and contractors. In addition, the management and governance of our data also remains a top risk given the high value attributed to our data for the insights it can generate for clients and communities. Resulting implications from failing to manage data and privacy risks could include financial loss, theft of intellectual property and/or confidential information, litigation, enhanced regulatory attention and penalties, and reputational damage. Effective privacy and information management practices continue to grow in importance, as demonstrated by the continued development of complex regulations in the jurisdictions in which we operate. Privacy and data related risks have also heightened as a result of the evolving threat landscape and associated data breach risks. For details on how we are managing these risks, refer to the Operational risk section.

#### Top & emerging risks

#### Description

#### Regulatory changes



The ongoing introduction of new or revised regulations requires enhanced focus across the organization on meeting additional regulatory requirements across the multiple jurisdictions in which we operate. Financial and other reforms that have been implemented or are being implemented across multiple jurisdictions, such as digital, data and technology reforms, cyber security and anti-money laundering regulations, interest rate benchmark and payments reform, as well as privacy, tax reforms, climate, sustainability and consumer protection regulatory initiatives, continue to impact our operations and strategies. For more details, refer to the Overview of other risks – Legal and regulatory environment risk section.

Culture and conduct risks



Our Purpose, values and risk principles are key dimensions of our culture. We demonstrate our culture through our conduct – the behaviours, decisions and actions of the organization and our employees. Culture and conduct risks are considered top risks for the financial services industry due to the impact that our choices, behaviours, and overall risk governance can have on outcomes for our clients and other stakeholders. We embed client considerations into our decision-making processes and continue to focus on the fair treatment of clients which also aligns with regulatory direction. We seek to be responsive to evolving employee needs while expecting employees to always act with integrity.

Regulators continue to focus on conduct risks, and heightened expectations generally from regulators could lead to investigations, remediation requirements, higher compliance costs and enforcement actions and fines, and potential criminal prosecutions or imposition of sanctions, which may involve prohibitions or restrictions on some of our activities. While we take steps to continue to strengthen our conduct practices, and prevent and detect risk outcomes which could potentially harm clients, employees or the integrity of the markets, such outcomes may not always be prevented or detected. Additionally, RBC continues to focus efforts on enhancing and fostering a strong risk culture. A strong risk culture reinforces risk-aware mindsets, competencies and behaviours by promoting responsible risk-taking decisions across the bank. For more details, refer to the Culture and conduct risk section.

#### Overview

As a global financial institution with a diversified business model, we actively manage a variety of risks to help protect and enable our businesses by following these risk management principles:

#### Risk management principles

- Effectively balance risk and reward to enable sustainable growth.
- Collectively share the responsibility for risk management.
- Undertake only risks we understand and make thoughtful and future-focused risk decisions, taking environmental and social considerations into account.
- Always uphold our Purpose and vision, and consistently abide by our values and Code of Conduct to maintain our reputation and the trust of our clients, colleagues and communities.
- Maintain a healthy and robust control environment to protect our stakeholders.
- Use judgment and common sense.
- Always be operationally prepared and financially resilient for a potential crisis.

The dynamic nature of the financial services industry, and technological innovation, necessitate that our processes, tools, and practices are continuously improving and responding to the changing landscape and emerging risks. We seek to accomplish this through an effective and evolving risk management approach. All risk-taking activities and exposures are within the Board-approved risk appetite, corresponding constraints and risk limits. We seek to ensure that our business activities and transactions provide an appropriate balance of return for the risks assumed and the costs incurred. Our organizational design and governance processes are structured with the intent of maintaining the independence of Group Risk Management (GRM) and Regulatory Compliance from the businesses and functions they support.

#### **Principal Risks**

We define risk as the potential vulnerabilities in the short-, medium- or long-term that may impact our financial results, financial and operational resilience, reputation, business model or strategy. Risk can be realized through losses or an undesirable outcome with respect to volatility of earnings in relation to expected earnings, capital adequacy or liquidity. Our Principal Risks are the key risks that most significantly affect the achievement of our strategic objectives and include credit, market, liquidity, insurance, operational, compliance, reputation and strategic risks. The classification of our Principal Risks provides a common language and foundation for the broader risk taxonomy and enables a disciplined identification and assessment of risks. There are certain activities that we undertake that will give rise to several risks. There are also certain risks that are transverse (e.g., reputation, compliance, climate and conduct risks) that can impact or manifest in other risk types.

Macroeconomic	<ul> <li>Adverse changes in the macroeconomic environment can lead to a material impact on the real economy or the financial system in any of the regions in which we operate.</li> <li>Examples include persistent inflationary pressures and high interest rates, high unemployment, economic slowdowns or recessions, deterioration in the Canadian housing market, abrupt changes in the geopolitical environment, unfavourable global trade agreements, political uncertainties, or the outbreak of a pandemic or other health crises.</li> <li>Resultant impacts can materialize as loss of revenue, increased costs, as well as the realization of credit, market or operational risk losses.</li> </ul>
Strategic	<ul> <li>Business strategy is a major driver of our risk appetite, including acquisitions and dispositions, responses to threats posed by non-traditional competitors and responses to proposed changes in the regulatory environment. Consequently, the strategic choices and capital allocations we make may change our risk profile.</li> <li>Choosing the wrong strategy, or poorly executing on the correct strategy, could result in reputational risk consequences, impact our revenue mix, and/or affect our exposure to earnings volatility and loss absorption capacity.</li> </ul>
Operational / Regulatory Compliance	<ul> <li>The complexity and scope of our operations across the globe exposes us to operational and regulatory compliance risks.</li> <li>We seek to manage and mitigate the compliance risks associated with failing to comply with, or adapt to, current and changing laws and regulations in the jurisdictions in which we operate.</li> </ul>
Transactional / Positional	<ul> <li>The risk of credit, market, liquidity and insurance losses, arising from, among other things, lending transactions and balance sheet positions is a more traditional risk perspective. These risks are an integral part of our day-to-day business activities.</li> <li>While we earn revenue by taking these transactional/positional risks, we seek to understand these risks and endeavor to effectively balance risk and reward.</li> </ul>

#### Enterprise risk management

Under the oversight of the Board and senior management, the Enterprise Risk Management Framework (ERMF) provides an overview of our enterprise-wide programs for managing risk, including identifying, assessing, measuring, controlling, monitoring and reporting on the significant risks that face the organization.

#### Risk governance

We have an effective and well-established risk governance framework in place that seeks to ensure risks impacting our businesses are identified, appropriately categorized, assessed, managed and communicated to the Board in a timely manner. This framework has been established, and is maintained in alignment with, the expectations of OSFI, the Basel Committee on Banking Supervision's (BCBS) corporate governance principles and the requirements and expectations of other regulators in the jurisdictions in which we conduct business, and in accordance with industry best practices. The Board oversees the implementation of our risk management framework, while employees at all levels of the organization are responsible for managing the day-to-day risks that arise in the context of their mandates. As illustrated below, we use the three lines of defence governance model that helps to enforce a clear segregation of duties so that risks are appropriately and adequately managed throughout the enterprise to achieve our strategic objectives.

#### BOARD OF DIRECTORS

#### **GOVERNANCE COMMITTEE**

#### **HUMAN RESOURCES COMMITTEE**

- The Board approves our Code of Conduct and closely collaborates with management to set the tone from above and promote a strong governance culture that influences RBC at every level and across all our global businesses. The Board also approves our risk appetite, provides oversight and carries out its risk management mandate primarily through its committees:
- The Risk Committee assists the Board in overseeing our risk management by seeking to ensure that policies, processes and procedures, as well as the appropriate organizational structure, budget and resources are in place to manage RBC's significant risks. The Risk Committee oversees the risk management function, annually assesses the risk management function's effectiveness and periodically reviews the results of independent assessments. Its oversight activities include evaluation of the risk management function's success against its key priorities, the mandate of the Chief Risk Officer (CRO), and the risk management function's organizational structure, budget and resources. The Risk Committee also oversees Regulatory Compliance and Financial Crimes (including Anti-Money Laundering functions), having regard to the independence of the businesses whose activities they review. It annually assesses the effectiveness of the Regulatory Compliance and Financial Crimes (including Anti-Money Laundering) functions, and it reviews and approves their respective mandate, organizational structure, budget and resources, as well as the mandates of the Chief Compliance Officer (CCO) and the Chief Anti-Money Laundering Officer (CAMLO).
- The Audit Committee assists the Board in its oversight of the integrity of our financial statements; the qualifications, performance, and independence of our external auditors; and the performance of our Internal Audit function and our internal controls. In addition, it oversees the Chief Financial Officer (CFO) Group and Internal Audit functions, having regard to their independence from the businesses whose activities they review. It annually assesses the effectiveness of the CFO Group and Internal Audit functions, and it reviews and approves their respective organizational structure, budget and resources, and charter, as well as the mandates of the CFO and the Chief Audit Executive.
- The Governance Committee recommends to the Board individuals for Board member election or re-election and oversees the process for evaluating Board, committee and director effectiveness. Moreover, the Governance Committee serves at the conduct review committee and oversees the management of culture and conduct. Additional responsibilities include (i) developing and recommending governance frameworks, principles and policies to the Board; (ii) overseeing and coordinating ESG matters at the Board and its committees; (iii) monitoring developments in corporate governance and adapting best practices to the bank's needs and circumstances; and (iv) reviewing shareholder proposals and recommending responses to the Board.
- The Human Resources Committee assists the Board in its oversight of compensation policies and major compensation programs, compensation risk management and the compensation for the CEO and other members of the Group Executive (GE). It also oversees our pension plans, key talent management and human resources strategies and practices, including employee engagement, diversity & inclusion and health & wellness, as well as succession plans for key senior leadership roles

#### THE GROUP EXECUTIVE AND GROUP RISK COMMITTEE AND SENIOR MANAGEMENT COMMITTEE

- Actively shapes enterprise risk appetite and recommends it for Board approval.
- Visibly supports and communicates enterprise risk appetite, seeking to ensure that sufficient resources and expertise are in place to help provide effective oversight of adherence to the enterprise risk appetite.
- Seeks to ensure principles, policies, authorities, resources, responsibilities and reporting are in place to support the control infrastructure necessary for an effective enterprise-wide risk management program.
- Oversees culture and conduct strategy and key activities.
- Provides appropriate and timely information to the Board and its Committees with regard to the identification, measurement and management of the significant risks to which we are exposed across all of our legal entities, businesses and operations globally.
- Specifically, the Compensation Risk Management Oversight Committee (CRMOC) oversees the design of major compensation programs in an effort to ensure alignment with sound risk management principles, and that risks that may not be fully captured in our current financial performance are appropriately considered in variable compensation payouts, including our enterprise risk profile relative to risk appetite. The CRMOC has responsibility for ensuring our compensation programs align with the Financial Stability Board (FSB) Principles for Sound Compensation Practices and Implementation Standards and other applicable guidance and best practices.

#### FIRST LINE OF DEFENCE

#### **RISK OWNERS**

- All employees across our businesses and functional areas are responsible for ensuring risk controls are in place Accountable for:
- Identification;
  - Assessment;
  - Mitigation and management;

  - Monitoring; and Reporting of risks against approved policies and appetite

#### **SECOND LINE OF DEFENCE**

#### RISK OVERSIGHT

## RISK MANAGEMENT

# COMPLIANCE AND ANTI-

# OTHER FUNCTIONAL UNITS

- Establishes risk management practices, policies and provides risk guidance Oversees and challenges the effectiveness of
- First Line risk management practices
- Monitors and independently reports on the level of risk against established risk appetite The CRO, the CCO and the CAMLO have direct
- access to the Risk Committee
- While the following functional units perform First Line activities where Risk Management provides independent oversight and challenge, they also provide advice and support across all three lines of defence: CFO Group, Human Resources and the Chief Legal and Administrative Officer (CLAO) Group

#### THIRD LINE OF DEFENCE

#### INDEPENDENT ASSURANCE

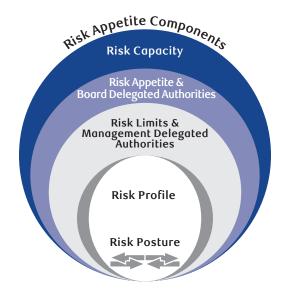
- Internal Audit
- Independent assurance to management and the Board on the effectiveness of risk management practices of the First Line and Second Line of Defence

Risk appetite

Effective risk management helps protect us from unacceptable losses or undesirable outcomes with respect to our earnings volatility, concentration, capital adequacy or other Principal Risks while supporting and enabling our overall business strategy. It requires the clear articulation of our risk appetite, which is the amount and type of risk that we are able and willing to accept in the pursuit of our business objectives. Risk appetite reflects our self-imposed upper bound to risk-taking, set at levels inside of regulatory limits and constraints, and influences our risk management philosophy, Code of Conduct, business practices and resource allocation. It provides clear boundaries and sets an overall tone for balancing risk-reward trade-offs intended to ensure the long-term viability of the organization.

Our risk appetite is integrated into our strategic, financial, and capital planning processes, as well as ongoing business decision-making processes and is reviewed and approved annually by the Board.

Our Enterprise Risk Appetite Framework (ERAF) outlines the foundational aspects of our approach to risk appetite, articulates our quantitative and qualitative risk appetite statements and their supporting measures and associated constraints, which can be applied at the enterprise, business segment, business unit and legal entity level, and describes our requirements and expectations to embed effective risk appetite practices throughout the organization.



#### Risk appetite statements

#### Quantitative statements

- Manage earnings volatility and exposure to future losses under normal and stressed conditions.
- Avoid excessive concentrations of risk.
- Ensure capital adequacy and sound management of liquidity and funding risk.
- Ensure sound management of operational and regulatory compliance risk.
- Maintain strong credit ratings and a risk profile in the top half of our peer group.

#### Qualitative statements

- Always uphold our Purpose and vision and consistently abide by our values and Code of Conduct to maintain our reputation and the trust of our clients, colleagues and communities.
- Undertake only risks we understand. Make thoughtful and future-focused risk decisions, taking environmental and social considerations into account.
- Effectively balance risk and reward to enable sustainable growth.
- Maintain a healthy and robust control environment to protect our stakeholders.
- Always be operationally prepared and financially resilient for a potential crisis.

The allocation of our risk appetite across the bank is supported by the establishment of delegated authorities or risk limits. These delegated authorities or risk limits represent the maximum level of risk permitted for a line of business, portfolio, individual or group and are used to govern ongoing operations. Risk posture, the anticipated shift in risk profile as a result of changes in objectives, strategies and external factors, is used to provide insights on key areas that may require management attention to better seek to ensure strategies are able to be executed successfully within our risk appetite.

#### Risk measurement

Quantifying risk is a key component of our enterprise-wide risk and capital management processes. Risk measurement and planning processes are integrated across the enterprise, especially in regards to forward-looking projections and analyses, including but not limited to, stress testing, recovery and resolution planning, and credit provisioning.

Certain risks, such as credit, market, liquidity and insurance risks, can be more easily quantified than others, such as operational, reputation, strategic or compliance risks. For the risks that are more difficult to quantify, greater emphasis is placed on qualitative risk factors and assessment of activities to gauge the overall level of risk. In addition, judgmental risk measures and techniques such as stress testing, and scenario and sensitivity analyses can be used to assess and measure risks, and we are continuously evolving our risk measures and techniques to manage our risks. Our primary methods for measuring risk include:

- Quantifying expected loss: losses that are statistically expected to occur as a result of conducting business in a given time period;
- Quantifying unexpected loss: an estimate of the deviation of actual earnings from expected earnings, over a specified time horizon;
- Stress testing: evaluates, from a forward-looking perspective, the potential effects of a set of specified changes in risk
  factors, corresponding to exceptional but plausible adverse economic and financial market events. RBC's stress testing
  programs are performed at different levels of the organization (enterprise-wide, subsidiary-level and risk-level) to allow
  relevant risk profiles and concentrations to be reflected in scenario design, analysis and decision-making; and
- Back-testing: the realized values are compared to the parameter estimates that are currently used in an effort to ensure the parameters remain appropriate for regulatory and economic capital calculations.

#### Stress testing

Stress testing is an important component of our risk management framework. Stress testing results are used for:

- Assessing the viability of long-term business plans and strategies;
- · Monitoring our risk profile relative to our risk appetite in terms of earnings and capital at risk;
- Setting limits;
- · Identifying key risks to, and potential shifts in, our capital and liquidity levels, as well as our financial position;
- · Enhancing our understanding of available mitigating actions in response to potential adverse events; and
- Assessing the adequacy of our capital and liquidity levels.

Our enterprise-wide stress tests evaluate key balance sheet, income statement, leverage, capital and liquidity impacts arising from risk exposures and changes in earnings. The results are used by the Board, Group Risk Committee (GRC) and senior management risk committees to understand our performance drivers under stress, and review stressed capital, leverage and liquidity ratios against regulatory thresholds and internal limits. The results are also incorporated into our Internal Capital Adequacy Assessment Process (ICAAP) and capital plan analyses.

We evaluate a number of enterprise-wide stress scenarios over a multi-year horizon, featuring a range of severities. Our Board reviews the recommended scenarios developed after a thorough risk identification process. Results from across the organization are integrated to develop an enterprise-wide view of the impacts, with input from subject matter experts in GRM, Corporate Treasury, Finance, Economics and our business segments. Generally, our stress testing scenarios evaluate global recessions, equity market changes, elevated debt levels, changes in interest rates, real estate price corrections, and shocks to credit spreads and commodity markets, among other factors. During our fiscal 2024 stress testing exercises, we addressed several top and emerging risks including but not limited to geopolitical tensions, changing interest rates, cyber threats and climate risks with a focus on the impacts of these risks on revenue, losses, net income, liquidity and capital projections.

Ongoing stress testing and scenario analyses within specific risk types, such as market risk (including Interest Rate Risk in the Banking Book (IRRBB)), liquidity risk, retail and wholesale credit risk, operational risk and insurance risk, supplement and support our enterprise-wide analyses. Results from these risk-specific programs are used in a variety of decision-making processes including risk limit setting, portfolio composition evaluation, risk appetite articulation and business strategy implementation.

In addition to ongoing enterprise-wide and risk-specific stress testing, we use ad hoc and reverse stress testing to deepen our knowledge of the risks we face. Ad hoc stress tests are one-off analyses used to investigate developing market conditions or to stress a particular portfolio in greater depth. Reverse stress tests aim to reverse-engineer scenarios that might lead to a particular severe outcome, such as bank non-viability, and are used in resolution & recovery planning and to improve our understanding of risk/return boundaries.

In addition to internal stress tests, we participate in a number of regulatory stress testing exercises, on a periodic basis, across several jurisdictions.

#### Model governance and validation

Models are used for many purposes including, but not limited to, the valuation of financial products, the identification, measurement and management of different types of risk, stress testing, assessing capital adequacy, informing business and risk decisions, measuring compliance with internal limits, meeting financial reporting and regulatory requirements, and issuing public disclosures.

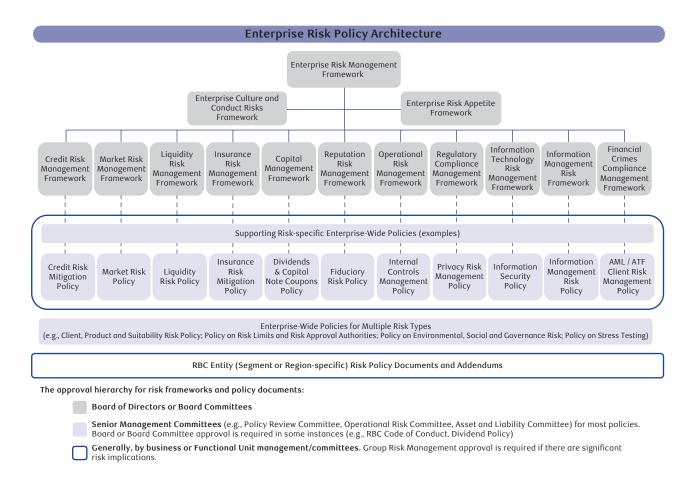
Model risk is the risk of adverse financial and/or reputational consequences to the enterprise arising from the use or misuse of a model at any stage throughout its life cycle, and is managed through our model risk governance and oversight structure. The governance and oversight structure, which is implemented through our three lines of defence governance model, is founded on the basis that model risk management is a shared responsibility across the three lines spanning all stages of the model's life cycle.

Prior to being used, models are subject to independent validation and approval by our enterprise model risk management function, a team of modelling professionals with reporting lines independent of those of the model owners, developers and users. The validation seeks to ensure that models are sound and capable of fulfilling their intended use. In addition to independently validating models prior to use, our enterprise model risk management function provides controls that span the life-cycle of a model, including model change management procedures, requirements for ongoing monitoring, and annual assessments in an effort to ensure each model continues to serve its intended purpose.

Al based applications are subject to enhanced model governance and validation requirements and are assessed in conjunction with other relevant risk functions. Controls for predominant Al risks, including fairness and explainability, are subject to Risk Committee oversight and approval. Model risk reports including Al matters are reviewed periodically by the Board.

#### Risk control

Our enterprise-wide risk management approach is supported by a comprehensive set of risk controls that are defined in our ERMF. The ERMF serves as the foundation for our approach to risk management and promotes RBC's risk management principles, approach and governance. It further sets the expectations for the development and communication of policies, the establishment of formal independent risk review and approval processes; and the establishment of risk appetite, delegated risk approval authorities and risk limits. Enterprise-wide control programs are an important risk control mechanism that seek to establish sufficient risk diversification and risk/return optimization. The ERMF is further reinforced and supported by a number of additional Board-approved risk frameworks and various policies. Together, our risk frameworks and supporting policies provide direction and insight on how respective risks are identified, assessed, measured, managed, mitigated, monitored and reported. The enterprise-wide policies are considered our minimum requirements, articulating the parameters within which business groups and employees must operate.



#### Risk appetite, risk approval authorities and risk limits

Risk Appetite is the amount and type of risk that we are able and willing to accept in the pursuit of our business objectives. It reflects our self-imposed upper bound to risk taking and influences our risk management philosophy, conduct, operating style and resource allocation. It is generally set at a level providing a risk absorption buffer to our risk capacity and allows for recovery during periods of heightened exposure or stress. Risk Appetite is supported by Risk Approval Authorities delegated by the Board to senior management which provide thresholds for escalation of exposures and transactions to the Risk Committee of the Board for review and approval. The allocation of Risk Appetite and Board Delegated Authorities may be supported by the establishment of management delegated authorities and/or risk limits as well as risk approval authorities delegated to the Chief Risk Officer and/or the Chief Credit Officer of applicable RBC Subsidiaries. These represent the maximum level of risk permitted for a line of business, portfolio, individual or other groups. These authorities and limits are used to implement risk management strategies and govern ongoing operations. Excesses to risk approval authorities and risk limits can act as early warning indicators for risk appetite constraints allowing for timely management attention. Senior management can delegate some or all of their authorities onwards to others in the organization. The delegated authorities enable the approval of single name, geographic and industry sectors, and product and portfolio exposures within defined parameters and limits. They are also used to manage concentration risk, establish underwriting and inventory limits for trading and investment banking activities and set market risk tolerances.

#### Risk review and approval processes

Risk review and approval processes provide an important control mechanism and are established by GRM based on the nature, size and complexity of the risk involved. In general, the risk review and approval process involves a formal review and approval by an individual, group or committee that is independent from the originator. The approval responsibilities are governed by the Enterprise Risk Appetite Framework and the delegated risk authorities and risk limits are based on the following categories: credit (including borrower, country, regional, and sector risks), market, underwriting and distribution, liquidity and insurance risks. Requirements for the review and approval of risks related to projects and initiatives, new products and services, and transaction specific risks are set out in enterprise-level risk policies and procedures.

#### Risk monitoring and reporting

Enterprise and business segment level risk monitoring and internal reporting are critical components of our enterprise risk management program and support the ability of senior management and the Board to effectively perform their risk management and oversight responsibilities. The ongoing monitoring of our risk profile, and the organization's risk exposure against our risk appetite, enables proactive risk management and oversight. It seeks to ensure that our businesses operate within established and approved risk appetite; detect areas where business activity or growth may be constrained in the future; identify situations where risk-taking may be overly conservative or aggressive; enable senior management to assess the impact of stress and unanticipated events; and inform the development and implementation of risk mitigation strategies in order to operate within risk appetite. At each meeting of the Risk Committee of the Board, the CRO provides a risk update that has been reviewed by senior management, and which includes, among others, top and emerging risks, industry trends or other notable items. On a quarterly basis, we provide our Enterprise Risk Report to senior management and the Risk Committee of the Board which includes, among others, top and emerging risks, risk profile relative to our risk appetite, portfolio quality metrics and a range of risks we face along with an analysis of the related issues, key trends and, when required, management actions. On an annual

basis, we provide a benchmarking review to the Board which compares our performance to peers across a variety of risk metrics and includes a composite risk scorecard which provides an objective measure of our ranking relative to the peer group. In addition to our regular risk monitoring, other risk-specific presentations are provided to, and discussed with, senior management and the Board on top and emerging risks or changes in our risk profile. In addition, we publish external reports on risk matters to comply with regulatory requirements.

#### Risk controls monitoring and issue management

The monitoring and testing of internal controls is an important part of our risk management approach. Our robust governance structure is outlined within the Enterprise Operational Risk Management Framework and supporting policies. We seek to establish a consistent, principles based approach to the development, identification and management of internal controls as well as clearly defined roles and responsibilities.

Issue management is a risk management capability that facilitates the identification, rationalization and management of issues. These are defined as risk exposures resulting from the i) absence of controls, or ii) deficiencies in control design or operating effectiveness. Effective issue management practices enable us to consistently identify and assess such issues for severity, design remediation actions, and to track the progress of remediation plans through completion. An enterprise issue management program is in place to outline a standardized set of parameters for issue management, including a universal definition of issues, sources, scope, taxonomies and severity of ratings of issues. Our approach to the issue management program is tailored to individual issue sources across the three lines of defence and to specific needs of each business segment and functional unit, including local governance processes, roles and responsibilities and regulatory expectations.

#### Escalation of risks and event issues

We actively monitor and manage risks inherent to our activities and consequently maintain processes and controls to manage those activities. However, there may be times when processes and/or controls do not work as expected leading to risk events, or new risks arise that were not anticipated. Timely escalation of risks or events allows for appropriate awareness and action (where required) by senior management, relevant committees and the Board, supporting adherence with regulatory expectations. All three lines of defence have monitoring and reporting processes in place that are intended to enable effective communication and escalation of risks and events.

The shaded text along with the tables specifically marked with an asterisk (\*) in the following sections of the MD&A represent our disclosures on credit, market and liquidity and funding risks in accordance with IFRS 7, Financial Instruments: Disclosures, and include discussion on how we measure our risks and the objectives, policies and methodologies for managing these risks. Therefore, these shaded text and marked tables represent an integral part of our 2024 Annual Consolidated Financial Statements.

#### Principal risks

#### 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 and may arise directly from the risk of default of a primary obligor (e.g., issuer, debtor, counterparty, borrower or policyholder), indirectly from a secondary obligor (e.g., guarantor or reinsurer), and/or through off-balance sheet exposures, contingent credit risk, associated credit risk and/or transactional risk. Credit risk includes counterparty credit risk arising from both trading and non-trading activities. Exposure to credit risk occurs any time funds are extended, committed or invested through an actual or implied contractual agreement.

The responsibility for managing credit risk is shared broadly following the three lines of defence governance model. The allocation of the Board approved credit risk appetite is supported by the establishment of risk approval authorities and risk limits, delegated by the Board to the President & CEO and CRO. Credit transactions in excess of these authorities must be approved by the Risk Committee of the Board. To facilitate day-to-day business activities, the CRO has been empowered to further delegate credit risk approval authorities to individuals within GRM, the business segments and functional units, as deemed necessary.

We balance our risk and return by setting the following objectives for the management of credit risk:

- Ensuring credit quality is not compromised for growth;
- Managing credit risks in transactions, relationships and portfolios;
- Avoiding excessive concentrations in correlated credit risks;
- Using our credit risk rating and scoring systems or other approved credit risk assessment or rating methodologies, policies and tools;
- · Pricing appropriately for the credit risk taken;
- Detecting and preventing inappropriate credit risk through effective systems and controls;
- Applying consistent credit risk exposure measurements;
- Ongoing credit risk monitoring and administration;
- Transferring credit risk to third parties where appropriate through approved credit risk mitigation techniques (e.g., sale, hedging, insurance, securitization); and
- Avoiding activities that are inconsistent with our values, Code of Conduct or policies.

The Enterprise Credit Risk Management Framework (ECRMF) provides an overview of our approach to the management of Credit Risk including principles, methodologies, systems, roles and responsibilities, reports and controls. Additional supporting policies exist that are designed to provide further clarification of roles and responsibilities, acceptable practices, limits and key controls within the enterprise.

#### Credit risk measurement

We quantify credit risk at both the individual obligor and portfolio levels to manage expected credit losses and minimize unexpected losses to limit earnings volatility and ensure we are adequately capitalized.

We employ a variety of risk measurement methodologies to measure and quantify credit risk for our wholesale and retail credit portfolios. The wholesale portfolio is comprised of businesses, sovereigns, public sector entities, banks and other financial institutions, as well as certain HNW individuals. The retail portfolio is comprised of residential mortgages, personal loans, credit cards and small business loans. Our credit risk rating systems are designed to assess and quantify the risk inherent in credit activities in an accurate and consistent manner. The resulting ratings and scores are then used for both client- and transaction-level risk decision-making and as key inputs for our risk measurement and capital calculations.

# Measurement of economic and regulatory capital

Economic capital, which is our internal quantification of risks, is used for limit setting. It is also used for internal capital adequacy and allocation of capital to the Insurance segment. Our methodology for allocating capital to our business segments, other than Insurance, is based on regulatory requirements. For further details, refer to the Capital management section.

In measuring credit risk to determine regulatory capital, two principal approaches are available: the Internal Ratings Based (IRB) Approach and the Standardized Approach as per OSFI's CAR guideline. The IRB Approach allows both a full model-based approach referred to as the Advanced Internal Ratings Based (A-IRB) Approach and a more supervisory-based approach known as the Foundation Internal Ratings Based Approach (F-IRB).

The Standardized Approach applies primarily to Wealth Management, including our City National wholesale portfolio, our Caribbean banking operations and certain non-mortgage retail portfolios acquired through the HSBC Canada transaction, and is based on risk weights prescribed by OSFI that are used to calculate RWA for credit risk exposure.

The A-IRB Approach, which applies to most of our retail and wholesale credit risk exposures (excluding F-IRB exposures discussed below), utilizes three key parameters which form the basis of our credit risk measures for both regulatory and economic capital:

- Probability of default (PD): An estimated percentage that represents the likelihood of default within a given time period of an obligor for a specific rating grade or for a particular pool of exposure.
- Exposure at default (EAD): An amount expected to be owed by an obligor at the time of default.
- Loss given default (LGD): An estimated percentage of EAD that is not expected to be recovered during the collections and recovery process following a default.

These parameters are determined based primarily on historical experience from internal credit risk rating systems in accordance with supervisory standards.

PD is estimated based on a long-run average of default rates for a specific rating grade or for a particular pool of exposure. The PD assigned to a default grade(s) or pools, consistent with the definition of default, is 100%.

EAD is estimated based on the current exposure to the obligor and the possible future changes in that exposure driven by factors such as the current utilization of approved limit. As with LGD, rates are estimated to reflect an economic downturn, with added conservatism to reflect data and statistical uncertainties identified in the modelling process.

Each credit facility is assigned an LGD rate that is largely driven by factors that impact the extent of losses anticipated in the event the obligor defaults. These factors mainly include seniority of debt, collateral and the industry sector in which the obligor operates. Estimated LGD rates draw primarily on internal loss experiences. Where we have limited internal loss data, we also refer to appropriate external data to supplement the estimation process. LGD rates are estimated to reflect conditions that might be expected to prevail in a period of an economic downturn, with additional conservatism added to reflect data limitations and statistical uncertainties identified in the estimation process.

Estimates of PD, LGD and EAD are reviewed on an annual basis and updates are then validated by an independent validation team within the bank. In addition, quarterly monitoring and back-testing is performed by the estimation team. These ratings and risk measurements are used to determine our expected losses as well as economic and regulatory capital, setting of risk limits, portfolio management and product pricing.

The F-IRB Approach is a prescribed regulatory approach that must be used to determine RWA related to our exposures to all banks and large corporates defined as having total consolidated revenues in excess of \$750 million annually. The F-IRB Approach uses the same PD parameter as the A-IRB Approach but requires the use of supervisory-prescribed EAD and LGD parameters.

# Financial and regulatory measurement distinctions

Expected loss models are used for both regulatory capital and accounting purposes. Under both models, expected losses are calculated as the product of PD, LGD and EAD. However, there are certain key differences under current Basel and IFRS reporting frameworks which could lead to significantly different expected loss estimates, including:

- Basel PDs are based on long-run averages over an entire economic cycle. IFRS PDs are based on current conditions, adjusted for estimates of future conditions that will impact PD under probability-weighted macroeconomic scenarios.
- Basel PDs consider the probability of default over the next 12 months. IFRS PDs consider the probability of default over the next 12 months only for instruments in stage 1. Expected credit losses for instruments in stage 2 are calculated using lifetime PDs.
- Basel LGDs are based on severe but plausible downturn economic conditions. IFRS LGDs are based on current conditions, adjusted for estimates of future conditions that will impact LGD under probability-weighted macroeconomic scenarios. For further details, refer to the Critical accounting policies and estimates section.

#### Gross credit risk exposure

Gross credit risk is categorized as i) lending-related and other credit risk or ii) trading-related credit risk, and is calculated based on the Basel III framework. Under this method, EAD for all lending-related and other credit transactions and trading-related repo-style transactions is calculated before taking into account any collateral and is inclusive of an estimate of potential future changes to that credit exposure. EAD for derivatives is calculated inclusive of collateral in accordance with regulatory guidelines.

#### Lending-related and other credit risk includes:

 Loans and acceptances outstanding, undrawn commitments, and other exposures, including contingent liabilities such as letters of credit and guarantees, debt securities carried at FVOCI or amortized cost and deposits with financial institutions. Undrawn commitments represent an estimate of the contractual amount that may be drawn upon at the time of default of an obligor.

## Trading-related credit risk includes:

- Repo-style transactions, which include repurchase and reverse repurchase agreements and securities lending and borrowing transactions. For repo-style transactions, gross exposure represents the amount at which securities were initially financed, before taking collateral into account.
- Derivative amounts which represent the credit equivalent amount, as defined by OSFI as the replacement cost plus an add-on amount for potential future credit exposure, scaled by a regulatory factor. For further details on replacement cost and credit equivalent amounts, refer to Note 9 of our 2024 Annual Consolidated Financial Statements.

## Credit risk assessment Wholesale credit risk

The wholesale credit risk rating system is designed to measure the credit risk inherent in our wholesale credit activities. Each obligor is assigned a borrower risk rating (BRR), reflecting an assessment of the credit quality of the obligor. Each BRR has a PD calibrated against it. The BRR differentiates the riskiness of an obligor and represents our evaluation of the obligor's ability and willingness to meet its contractual obligations on time over a three year time horizon. The assignment of BRRs is based on the evaluation of the obligor's business risk and financial risk through fundamental credit analysis, as well as data-driven modelling. The determination of the PD associated with each BRR relies primarily on internal default history since 2006. PD estimates are designed to be a long-run average of our experience across the economic cycle in accordance with regulatory guidelines.

Our rating system is designed to stratify obligors into 22 grades. The following table aligns the relative rankings of our 22-grade internal risk ratings with the external ratings used by S&P and Moody's.

Internal ratings map* Table 41											
	PD B	ands									
Ratings	Business and Bank	Sovereign	BRR	S&P	Moody's	Description					
1 2 3	0.0000% - 0.0500% 0.0000% - 0.0500% 0.0000% - 0.0500%	0.0000% - 0.0150% 0.0151% - 0.0250% 0.0251% - 0.0350%	1+ 1H 1M	AAA AA+ AA	Aaa Aa1 Aa2						
4 5	0.0000% - 0.0500% 0.0000% - 0.0550%	0.0351% - 0.0450% 0.0451% - 0.0550%	1L 2+H	AA- A+	Aa3 A1	Navastas ant Canda					
6 7 8 9 10	0.0551% - 0.0651% - 0.0751% - 0.0851% - 0.1031% -	- 0.0750% - 0.0850% - 0.1030%	2+M 2+L 2H 2M 2L	A A- BBB+ BBB BBB-	A2 A3 Baa1 Baa2 Baa3	Investment Grade					
11 12 13 14 15 16 17 18 19 20	1.5521% - 2.2166% - 4.5071% - 7.1661% - 13.1761% -	- 0.6460% - 1.0620% - 1.5520% - 2.2165% - 4.5070% - 7.1660% 13.1760%	2-H 2-M 2-L 3+H 3+M 3+L 3H 3M 3L 4	BB+ BB BB- B+ B- CCC+ CCC- CCC-	Ba1 Ba2 Ba3 B1 B2 B3 Caa1 Caa2 Caa3	Non-investment Grade					
21 22	· ·	0% 0%	5 6	D D	C C	Impaired					

 $<sup>^{\</sup>star}$  This table represents an integral part of our 2024 Annual Consolidated Financial Statements.

## Counterparty credit risk

Counterparty credit risk is the risk that a party with whom we have entered into a financial or non-financial contract will fail to fulfill its contractual agreement and default on its obligation. It incorporates not only the contract's current value, but also considers how that value can move as market conditions change. Counterparty credit risk usually arises from trading-related derivative and repo-style transactions. Derivative transactions include forwards, futures, swaps and options, and can have underlying references that are either financial (e.g., interest rate, foreign exchange, credit, or equity) or non-financial (e.g., precious metal or other commodities). For further details on our derivative instruments and credit risk mitigation, refer to Note 9 of our 2024 Annual Consolidated Financial Statements.

Trading counterparty credit activities are undertaken in a manner consistent with the relevant requirements under enterprise Credit, Market, and Model risk management frameworks and with approval in accordance with the appropriate delegated authorities.

The primary risk mitigation techniques for trading counterparty credit risk are close-out netting and collateralization. Close-out netting considers the net value of contractual obligations between counterparties in a default situation, thereby reducing overall credit exposure. Collateralization is when a borrower pledges assets as security, which provides recourse to the lender in the event of default. The policies that we maintain in relation to the recognition of risk mitigation from these techniques incorporate such considerations as:

- The use of standardized agreements such as the International Swaps and Derivatives Association Master Agreement and Credit Support Annex;
- Generally restricting eligible collateral to high quality liquid assets, primarily cash and highly-rated government securities, subject to appropriate haircuts; and
- The use of initial margin and variation margin arrangements in accordance with regulatory requirements and internal risk standards

Similarly, for securities finance and repurchase trading activity we mitigate counterparty credit risk via the use of standardized securities finance agreements, and by taking collateral generally in the form of eligible liquid securities.

We also mitigate counterparty credit risk through the use of central counterparties (CCPs). These highly-regulated entities intermediate trades between participating bilateral counterparties and mitigate credit risk through the use of initial and variation margin and the ability to net offsetting trades amongst participants. The specific structure and capitalization, including contingent capital arrangements, of individual CCPs are analyzed as part of assigning an internal counterparty credit risk rating and determining appropriate counterparty credit risk limits.

# Wrong-way risk

Wrong-way risk is the risk that exposure to a counterparty is adversely correlated with the credit quality of that counterparty. There are two types of wrong-way risk:

- Specific wrong-way risk, which exists when our exposure to a particular counterparty is positively correlated with the PD of
  the counterparty due to the nature of our transactions with them (e.g., loans collateralized by shares or debt issued by the
  counterparty or a related party). Specific wrong-way risk over-the-counter (OTC) derivative trades are done on an exception
  basis only, and are permitted only when explicitly pre-approved by GRM. Factors considered in reviewing such trades include
  the credit quality of the counterparty, the nature of the asset(s) underlying the derivative and the existence of credit
  mitigation.
- General wrong-way risk, which exists when there is a positive correlation between the PD of the counterparties and general macroeconomic or market factors. General wrong way risk can arise in various circumstances, depending on the transaction, collateral type, and the nature of the counterparty. We monitor general wrong-way counterparty credit risk using a variety of metrics including stress scenarios, correlation analysis, and investment strategy concentration.

## Retail credit risk

Credit scoring is the primary risk rating system for assessing obligor and transaction risk for retail exposures. Scoring models use internal and external data to assess and score borrowers, predict future performance and manage limits for existing loans and collection activities. Credit scores are one of the factors employed in the acquisition of new clients and management of existing clients. The credit score of the borrower is used to assess credit risk for each independent acquisition or account management action, leading to an automated decision or guidance for an adjudicator. Credit scoring improves credit decision quality, adjudication timeframes and consistency in the credit decision process and facilitates risk-based pricing. We seek to continuously improve our credit scoring and analytic capabilities by exploring client behavioural data and advanced analytical techniques to make sound credit decisions.

To arrive at a retail risk rating, borrower scores are categorized and associated with PDs for further grouping into risk rating categories. The following table maps PD bands to various summarized risk levels for retail exposures:

Internal ratings map*	Table 42
PD bands	Description
0.050% - 3.965%	Low risk
3.966% - 7.428%	Medium risk
7.429% – 99.99%	High risk
100%	Impaired/Default

<sup>\*</sup> This table represents an integral part of our 2024 Annual Consolidated Financial Statements.

## Credit risk mitigation

We seek to reduce our exposure to credit risk through a variety of means, including the structuring of transactions and the use of collateral.

## Structuring of transactions

Specific credit policies and procedures set out the requirements for structuring transactions. Risk mitigants include the use of guarantees, collateral, seniority, LTV requirements and covenants. Product-specific guidelines set out appropriate product structuring as well as client and guarantor criteria.

#### Collateral

When we advance credit, we often require obligors to pledge collateral as security. The extent of risk mitigation provided by collateral depends on the amount, type and quality of the collateral taken. Specific requirements relating to collateral valuation and management are set out in our credit risk management policies.

The types of collateral we use to secure credit or trading facilities within the bank are varied. For example, our securities financing and collateralized OTC derivatives activities are primarily secured by cash and highly-rated liquid government and agency securities. Wholesale lending to business clients is often secured by pledges of the assets of the business, such as accounts receivable, inventory, operating assets and commercial real estate. In Personal Banking, Commercial Banking and Wealth Management, collateral typically consists of a pledge over a real estate property, or a portfolio of debt securities and equities trading on a recognized exchange.

- We employ a risk-based approach to property valuation. Property valuation methods include automated valuation models (AVM) and appraisals. An AVM is a tool that estimates the value of a property by reference to market data including sales of comparable properties and price trends specific to the Metropolitan Statistical Area in which the property being valued is located. Using a risk-based approach, we also employ appraisals which can include drive-by or full on-site appraisals.
- We continue to actively manage our mortgage portfolio and perform stress testing, based on a combination of increasing unemployment, rising interest rates and a downturn in real estate markets.
- We seek to be in compliance with regulatory requirements that govern residential mortgage underwriting practices, including LTV parameters and property valuation requirements.

There were no significant changes regarding our risk management policies on collateral or to the quality of the collateral held during the period.

# Credit risk approval

The Board, GE, GRC and other senior management committees work together to ensure the ECRMF and supporting policies, processes and procedures exist to manage credit risk and approve related credit risk limits. Reports are provided to the Board, the GRC, and senior executives to keep them informed of our risk profile, including significant credit risk issues, shifts in exposures and trending information, to ensure appropriate and timely actions can be taken where necessary. Our enterprise-wide credit risk policies set out the minimum requirements for the prudent management of credit risk in a variety of borrower, transactional and portfolio management contexts.

## Transaction approval

Credit transactions are governed by our RBC Enterprise Policy on Risk Limits and Risk Approval Authorities that captures the authorities and risk limits delegated to management as well as the credit rules policy, which outlines the minimum standards for managing credit risk at the individual client relationship and/or transaction level. The credit rules policy is further supported by business and/or product-specific policies and guidelines as appropriate. Where a transaction exceeds senior management's authorities, the approval of the Risk Committee of the Board is required.

## Product approval

Proposals for credit products and services are comprehensively reviewed and approved under a product risk assessment process and are subject to product and suitability risk approval authorities which increase as the level of risk increases. New and amended products must be reviewed relative to all risk drivers, including credit risk. All existing products must be reviewed on a regular basis following a risk-based assessment approach.

## Credit risk limits

- The allocation of risk appetite and Board delegated authorities are supported by the establishment of risk limits which
  take both regulatory constraints and internal risk management judgment into account. Risk limits are established at the
  following levels: single name limits, regional, country and industrial sector limits (notional and economic capital),
  regulatory large exposure limits, product and portfolio limits, and underwriting and distribution risk limits. These limits
  apply across all businesses, portfolios, transactions and products.
- We actively manage credit exposures and limits to ensure alignment with our risk appetite, to maintain our target business mix and to ensure that there is no undue concentration risk.
  - Concentration risk is defined as the risk arising from large exposures that are highly correlated such that the obligors'
    ability to meet contractual obligations could be similarly affected by changes in economic, political or other risk
    drivers.
  - Credit concentration limits are reviewed on a regular basis after considering business, economic, financial and regulatory environments.

# Credit risk administration

# Loan forbearance

In our overall management of borrower relationships, economic, legal or other reasons may necessitate forbearance to certain clients with respect to the original terms and conditions of their loans. We have specialized groups and formalized policies that direct the management of high risk, delinquent or defaulted borrowers. We strive to identify borrowers in financial difficulty early and modify their loan terms to minimize losses and assist clients in need. A forbearance agreement may be entered into with the borrower where we will forbear from enforcing on security in exchange for concessions made by the borrower or additional security provided by the borrower. In these circumstances, a borrower may be granted concessions that would not otherwise be considered. Examples of such concessions to retail borrowers may include rate reduction, payment deferral and term extensions. Concessions to wholesale borrowers may include payment deferral or amendment, restructuring the agreements, modifying the original terms of the agreement and/or relaxation of covenants. For both retail and wholesale loans, the appropriate remediation techniques are based on the individual borrower's situation, our policy and the client's willingness and capacity to meet the new or modified loan terms.

# Credit risk exposure by portfolio, sector and geography

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

# Credit risk exposure by portfolio, sector and geography

Table 43

								As at									
				ober 31 <b>024</b>							ober 31 023						
	(	Credit risk (1), (2)		Counterparty	credit risk (5)			Сгес	dit risk (1), (2)		Counterparty of	redit risk (5)					
	On-balanc	amou	nce sheet nt (3)	Repo-style		Total	_	On-balance _	Off-baland amour		Repo-style	Total					
(Millions of Canadian dollars)	sheet amoun	t Undrawn	Other (4)	transactions	Derivatives	exposure	S	heet amount	Undrawn	Other (4)	transactions	Derivatives	exposure				
Retail																	
Residential secured (6)	\$ 498,01	4 \$ 124,743	\$ -	\$ -	\$ -	\$ 622,757	\$	451,610	\$ 114,612	\$ -	\$ -	\$ - \$	566,222				
Qualifying revolving (7)	33,57	1 95,776	-	-	-	129,347		36,091	110,473	-	-	_	146,564				
Other retail	53,25	7 21,530	162	-	-	74,949		48,162	20,804	136	-	-	69,102				
Total retail	\$ 584,84	2 \$ 242,049	\$ 162	\$ -	\$ -	\$ 827,053	\$	535,863	\$ 245,889	\$ 136	\$ -	\$ - \$	781,888				
Wholesale																	
Agriculture	\$ 13,25	7 \$ 3,241	\$ 77	\$ -	\$ 210	\$ 16,785	\$	11,316	\$ 2,792	\$ 46	\$ -	\$ 117 \$	14,271				
Automotive	14,42	4 9,605	639	-	1,454	26,122		11,568	8,586	680	_	1,148	21,982				
Banking	87,60	1 3,187	2,967	91,791	32,949	218,495		82,319	3,060	2,267	101,736	41,300	230,682				
Consumer discretionary	24,51	5 11,719	918	-	1,242	38,395		18,348	9,132	650	-	1,030	29,160				
Consumer staples	10,09		795	-	1,907	21,427		8,680	6,996	546	-	2,070	18,292				
Oil and gas	6,36	5 8,688	2,002	-	2,052	19,107		6,498	8,373	1,614	-	3,134	19,619				
Financial services	51,31		4,103	73,020	29,958	181,799		48,589	24,140	4,818	83,692	22,611	183,850				
Financing products	3,94		2,388	604	1,684	9,856		3,988	1,265	1,447	472	1,079	8,251				
Forest products	2,22		387	-	84	4,285		1,485	1,004	313	-	67	2,869				
Governments	283,89		2,149	13,334	7,933	315,200		270,382	6,960	1,482	10,736	5,692	295,252				
Industrial products	15,52		940	-	1,052	29,981		11,251	9,898	623	_	811	22,583				
Information technology	6,35		251	42	976	15,514		5,252	6,942	357	118	704	13,373				
Investments	30,01		786	103	99	38,154		25,921	4,608	701	_	383	31,613				
Mining and metals Public works and	2,82	1 3,950	1,684	-	427	8,882		2,144	3,548	1,044	-	391	7,127				
infrastructure	2,87	1 2,329	1,383	_	300	6,883		2,613	1,534	529	_	156	4,832				
Real estate and related	115,33		2,209	83	1,115	144,936		102,235	20,406	1,592	_	850	125,083				
Other services	35,98		3,461	-	1,236	56,547		30,617	14,203	2,598	_	741	48,159				
Telecommunication	33,70	15,070	3,101		1,230	30,317		30,017	11,203	2,370		, , , ,	10,137				
and media	7,81	4 7,210	159	_	2,874	18,057		8,597	6,529	132	_	2,794	18,052				
Transportation	10,51		1,533	_	2,470	21,755		8,461	5,925	1,009	_	2,408	17,803				
Utilities	14,65		5,993	_	5,451	47,206		14,495	20,389	6,367	_	4,638	45,889				
Other sectors	11,11		1,887	227	24,520	40,331		8,698	2,773	1,193	88	20,084	32,836				
Total wholesale	\$ 750,63	3 \$ 193,176	\$ 36,711	\$ 179,204	\$ 119,993	\$ 1,279,717	\$	683,457	\$ 169,063	\$ 30,008	\$ 196,842	\$ 112,208 \$	1,191,578				
Total exposure (1)	\$ 1,335,47	5 \$ 435,225	\$ 36,873	\$ 179,204	\$ 119,993	\$ 2,106,770	\$	1,219,320	\$ 414,952	\$ 30,144	\$ 196,842	\$ 112,208 \$	1,973,466				
By geography (8)																	
Canada	\$ 845,34	3 \$ 320,434	\$ 15,533	\$ 72,852	\$ 51,427	\$ 1,305,589	\$	729,131	\$ 306,474	\$ 10,676	\$ 80,664	\$ 42,123 \$	1.169.068				
U.S.	360,80		15,277	56,415	22,201	539,329		358,605	79,256	13,459	62,966	24,878	539,164				
Europe	55,93		3,432	31,987	31,555	144,789		58,496	21,987	3,467	27,637	31,749	143,336				
Other International	73,39		2,631	17,950	14,810	117,063		73,088	7,235	2,542	25,575	13,458	121,898				
Total exposure (1)	\$ 1,335,47	5 \$ 435,225	\$ 36,873	\$ 179,204	\$ 119,993	\$ 2,106,770	\$	1,219,320	\$ 414,952	\$ 30,144	\$ 196,842	\$ 112,208 \$	1,973,466				

- 1) Excludes securitization, banking book equities and other assets not subject to the standardized or IRB approach.
- (2) EAD for standardized exposures are reported net of allowance for impaired assets and EAD for IRB exposures are reported gross of all ACL and partial write-offs as per regulatory definitions.
- (3) EAD for undrawn credit commitments and other off-balance sheet amounts are reported after the application of credit conversion factors.
- (4) Includes other off-balance sheet exposures such as letters of credit and guarantees.
- (5) 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. Exchange traded derivatives are included in Other sectors.
- (6) Includes residential mortgages and home equity lines of credit.
- 7) Includes credit cards, unsecured lines of credit and overdraft protection products.
- (8) Geographic profile is based on country of residence of the borrower.

# 2024 vs. 2023

Total credit risk exposure increased \$133 billion or 7% from last year, mainly due to the impact of the HSBC Canada transaction in the second quarter of 2024.

					As at							
				Octo	ber 31				October 31			
		2024										
		Asset	type			Client type						
	Loans	The state of the s										
(Millions of Canadian dollars)	Outstanding	Securities (3)	transactions	Derivatives	Financials	Sovereign	Corporate	Total	Total (7)			
Europe (excluding												
U.K.)	\$ 15,845	\$ 26,086	\$ 6,262	\$ 4,114	\$ 25,470	\$ 10,997	\$ 15,840	\$ 52,307	\$ 43,766			
U.K.	12,800	16,775	4,254	2,482	16,061	9,628	10,622	36,311	42,104			
Caribbean	6,581	11,088	2,920	2,023	10,286	4,425	7,901	22,612	21,592			
Asia-Pacific	5,994	31,777	4,447	1,656	19,245	20,530	4,099	43,874	47,774			
Other (4)	1,924	1,657	4,403	38	3,908	2,015	2,099	8,022	6,726			
Net International												
<b>exposure</b> (5), (6)	\$ 43,144	\$ 87,383	\$ 22,286	\$ 10,313	\$ 74,970	\$ 47,595	\$ 40,561	\$ 163,126	\$ 161,962			

- (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 \$459 billion against repo-style transactions (October 31, 2023 \$374 billion) and \$16 billion against derivatives (October 31, 2023 \$17 billion).
- (3) Securities include \$14 billion of trading securities (October 31, 2023 \$13 billion), \$29 billion of deposits (October 31, 2023 \$44 billion), and \$44 billion of investment securities (October 31, 2023 \$38 billion).
- (4) Includes exposures in the Middle East, Africa, and Latin America.
- (5) Excludes \$6,950 million (October 31, 2023 \$5,686 million) of exposures to supranational agencies.
- (6) Reflects \$4,296 million of mitigation through credit default swaps, which are largely used to hedge single name exposures and market risk (October 31, 2023 \$2.533 million).
- (7) Amounts have been revised from those previously presented. Collateral amounts are now reflected net of haircuts, consistent with OSFI's CAR guidelines.

## Residential mortgages and home equity lines of credit (insured vs. uninsured) (1)

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

Residential mortgages and home equity lines of credit										
		As at October 31, 2024								
(Millions of Canadian dollars,		Home equity								
except percentage amounts)	Insur	<b>ed</b> (3)	Unir	sured	Total	Total				
Region (4) Canada										
Atlantic provinces	\$ 8,692	43%	\$ 11,688	57%	\$ 20,380	\$ 1,704				
Quebec	11,781	25	35,129	75	46,910	3,346				
Ontario	32,011	14	189,638	86	221,649	18,173				
Alberta	18,804	43	24,459	57	43,263	4,448				
Saskatchewan and										
Manitoba	8,549	41	12,258	59	20,807	1,718				
B.C. and territories	12,607	14	75,575	86	88,182	8,061				
Total Canada (5)	92,444	21	348,747	79	441,191	37,450				
U.S.	_	-	33,092	100	33,092	2,144				
Other International	_	_	3,261	100	3,261	1,421				
Total International	-	-	36,353	100	36,353	3,565				
Total	\$ 92,444	19%	\$ 385,100	81%	\$ 477,544	\$ 41,015				

	As at October 31, 2023									
(Millions of Canadian dollars,		Resi	dential mortș	gages		Home equity lines of credit (2)				
except percentage amounts)	lns	ured (3)	Uni	nsured	Total	Total				
Region (4) Canada										
Atlantic provinces	\$ 8,474	44%	\$ 10,765	56%	\$ 19,239	\$ 1,630				
Quebec .	11,831	27	31,741	73	43,572	3,111				
Ontario	30,359	15	168,264	85	198,623	16,558				
Alberta	18,840	45	22,596	55	41,436	4,403				
Saskatchewan and										
Manitoba	8,546	42	11,803	58	20,349	1,749				
B.C. and territories	11,911	16	62,475	84	74,386	7,048				
Total Canada (5)	89,961	23	307,644	77	397,605	34,499				
U.S.	_		33,683	100	33,683	2,090				
Other International	-	-	3,213	100	3,213	1,538				
Total International	-		36,896	100	36,896	3,628				
Total	\$ 89,961	21%	\$ 344,540	79%	\$ 434,501	\$ 38,127				

<sup>(1)</sup> Disclosure is provided in accordance with the requirements of OSFI's Guideline B-20 (Residential Mortgage Underwriting Practices and

Includes \$40,998 million and \$17 million of uninsured and insured home equity lines of credit, respectively (October 31, 2023 – \$38,108 million and \$19 million, respectively), reported within the personal loan category. The amounts in the U.S. and Other International include term loans collateralized by residential properties.

<sup>(3)</sup> Insured residential mortgages are mortgages whereby our exposure to default is mitigated by insurance through the Canadian

Mortgage and Housing Corporation or other private mortgage default insurers.

Region is based upon the 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\ \$441\ billion\ (October\ 31,\ 2023-\$398\ billion)\ includes\ \$12\ billion\ (October\ 31,\ 2023-\$398\ billion)\ includes\ \$12\ billion\ (October\ 31,\ 2023-\$398\ billion\ (October\ 31,\ 2023-8)\ billion\ (October\ 31,\ 2023-8)\ billion\ (October\ 31,\ 2023-8)\ billion\$ (October 31, 2023 - \$12 billion) of mortgages with commercial clients in Commercial Banking, of which \$9 billion (October 31, 2023 -\$9 billion) are insured mortgages, and \$18 billion (October 31, 2023 – \$18 billion) of residential mortgages in Capital Markets, of which \$18 billion (October 31, 2023 – \$18 billion) are held for securitization purposes. All of the residential mortgages held for securitization purposes are insured (October 31, 2023 - all insured).

## Residential mortgages portfolio by amortization period (1)

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.

Residential mortgages portfolio by amortization period										
			As	at						
		October 31			October 31					
		<b>2024</b> 2023								
		U.S. and other		U.S. and other						
	Canada (2)	International	Total	Canada	International	Total				
Amortization period										
≤25 years	62%	31%	60%	57%	26%	55%				
> 25 years ≤ 30 years	28	69	30	20	74	24				
> 30 years ≤ 35 years	10	_	10	1	_	1				
> 35 years	-	-	-	22	_	20				
Total	100%	100%	100%	100%	100%	100%				

Disclosure is provided in accordance with the requirements of OSFI's Guideline B-20 (Residential Mortgage Underwriting Practices and

## Average loan-to-value (LTV) ratios (1)

The following table provides a summary of our average LTV ratios for newly originated and acquired uninsured residential mortgages and RBC Homeline Plan® products by geographic region, as well as the respective LTV ratios for our total Canadian Banking residential mortgage portfolio outstanding.

Average LTV ratios				Table 47				
		For the ye	ear ended					
	0	ctober 31	-	ctober 31				
		2024	2023					
	Un	insured	Un	insured				
	Residential mortgages (2)	RBC Homeline Plan® products (3)						
Average of newly originated and acquired for the period, by region (4)			<u> </u>					
Atlantic provinces	68%	68%	71%	71%				
Quebec	64	67	70	70				
Ontario	63	60	70	64				
Alberta	66	67	72	71				
Saskatchewan and Manitoba	69	70	73	73				
B.C. and territories	51	60	68	63				
U.S.	72	n.m.	74	n.m.				
Other International	70	n.m.	69	n.m.				
Average of newly originated and acquired for the								
<b>period</b> (5), (6), (7)	60%	61%	70%	66%				
Total Canadian Banking residential mortgages								
portfolio (8)	56%	47%	55%	47%				

Disclosure is provided in accordance with the requirements of OSFI's Guideline B-20 (Residential Mortgage Underwriting Practices and

- $Residential\ mortgages\ exclude\ residential\ mortgages\ within\ the\ RBC\ Homeline\ Plan\ products.$
- (3)
- RBC Homeline Plan products are comprised of both residential mortgages and home equity lines of credit.

  Region is based upon the address of the property mortgaged. The Atlantic provinces are comprised of Newfoundland and Labrador, (4) 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 RBC Homeline Plan products is calculated on a weighted basis by mortgage amounts at origination.
- For newly originated mortgages and RBC Homeline Plan products, LTV is calculated based on the total facility amount for the residential mortgage and RBC Homeline Plan product divided by the value of the related residential property.
- Includes the HSBC Canada portfolio acquired in the second quarter of 2024, impacting the year ended October 31, 2024. Excluding the acquired HSBC Canada portfolio, the average of newly originated and acquired residential mortgages and RBC Homeline Plan products for the year ended October 31, 2024 was 70% and 65%, respectively.
- Weighted by mortgage balances and adjusted for property values based on the Teranet National Bank House Price Index‡.
- n.m. not meaningful

Our policy is to originate mortgages with amortization periods of 30 years or less. Amortization periods greater than 30 years reflect the impact of increases in interest rates on our variable rate mortgage portfolios. For these loans, the amortization period resets to the original amortization schedule upon renewal. We do not originate mortgage products with a structure that would result in negative amortization, as payments on variable rate mortgages automatically increase to ensure accrued interest is covered.

#### 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.

Gross impaired loans (GIL)			Table 48
	As at and for t	he ye	ear ended
(Millions of Canadian dollars, except percentage amounts)	October 31 2024		October 31 2023
Personal Banking (1), (2) Commercial Banking (1), (2) Wealth Management Capital Markets	\$ 1,652 2,372 508 1,335	\$	1,050 855 514 1,285
Total GIL	\$ 5,867	\$	3,704
Impaired loans, beginning balance Classified as impaired during the period (new impaired) (2) Net repayments (2) Amounts written off Other (3)	\$ 3,704 6,272 (848) (2,521) (740)	\$	2,199 3,959 (622) (1,572) (260)
Impaired loans, balance at end of period	\$ 5,867	\$	3,704
GIL as a % of related loans and acceptances Total GIL as a % of related loans and acceptances Personal Banking (1), (2) Personal Banking – Canada Commercial Banking (1), (2) Wealth Management (1) Capital Markets	0.59% 0.31% 0.26% 1.29% 0.42% 0.88%		0.42% 0.22% 0.16% 0.64% 0.43% 0.89%

Amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.

# 2024 vs. 2023

Total GIL increased \$2,163 million or 58% from last year and the total GIL ratio of 59 bps increased 17 bps, mainly due to higher impaired loans in Commercial Banking and Personal Banking.

GIL in Personal Banking increased \$602 million or 57%, mainly due to higher impaired loans in our Canadian residential mortgages portfolio.

GIL in Commercial Banking increased \$1,517 million, mainly due to higher impaired loans in a few sectors, including the real estate and related and automotive sectors.

GIL in Capital Markets increased \$50 million or 4%, mainly due to higher impaired loans in the financing products sector, partially offset by lower impaired loans in the real estate and related sector. The reduction in the real estate and related sector includes \$485 million in foreclosed properties which are accounted for as investment properties and interests in joint ventures for certain co-lending arrangements.

Allowance for credit losses			Table 49
	As	at	
(Millions of Canadian dollars)	October 31 2024		October 31 2023
Personal Banking (1) Commercial Banking (1) Wealth Management Capital Markets Corporate Support and other (1)	\$ 3,273 1,626 466 986 1	\$	2,780 938 618 1,012
ACL on loans ACL on other financial assets (2)	6,352 12		5,348 18
Total ACL	\$ 6,364	\$	5,366
ACL on loans is comprised of: Retail Wholesale	\$ 3,011 1,825	\$	2,591 1,609
ACL on performing loans ACL on impaired loans	\$ 4,836 1,516	\$	4,200 1,148

<sup>(1)</sup> Amounts have been revised from those previously presented to conform to our new basis of segment presentation. For further details, refer to the About Royal Bank of Canada section.

<sup>(2)</sup> Certain GIL movements for Personal Banking – Canada retail and wholesale portfolios are generally allocated to new impaired, as Net repayments and certain Other movements are not reasonably determinable. Certain GIL movements for Caribbean Banking retail and wholesale portfolios are generally allocated to Net repayments and new impaired, as Net repayments and certain Other movements are not reasonably determinable.

<sup>(3)</sup> Includes return to performing status during the period, recoveries of loans and advances previously written off, sold, amounts related to foreclosed properties held as investment properties and interests in joint ventures for certain co-lending arrangements, foreign exchange translation and other movements.

<sup>(2)</sup> ACL on other financial assets mainly represents allowances on debt securities measured at FVOCI and amortized cost, accounts receivable and financial guarantees.

#### 2024 vs. 2023

Total ACL increased \$998 million or 19% from last year, primarily reflecting an increase of \$1,004 million in ACL on loans.

ACL on performing loans increased \$636 million or 15%, mainly due to unfavourable changes in credit quality and the initial allowances on the performing loans purchased in the HSBC Canada transaction, partially offset by favourable changes to our macroeconomic forecast.

ACL on impaired loans increased \$368 million or 32%, mainly due to higher ACL in Commercial Banking and Personal Banking, partially offset by lower ACL in Capital Markets.

# 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.

The measures of financial condition impacted by market risk include the following:

- 1. Positions whose revaluation gains and losses are reported in revenue, which includes:
  - a) Changes in the fair value of instruments classified or designated as FVTPL, and
  - b) Hedge ineffectiveness.
- 2. CET1 capital, which includes:
  - a) All of the above, plus
  - b) Changes in the fair value of FVOCI securities where revaluation gains and losses are reported as OCI,
  - c) Changes in the Canadian dollar value of investments in foreign subsidiaries, net of hedges, due to foreign exchange translation, and
  - d) Changes in the fair value of employee benefit plan deficits.
- 3. CET1 ratio, which includes:
  - a) All of the above, plus
  - b) Changes in RWA resulting from changes in traded market risk factors, and
  - c) Changes in the Canadian dollar value of RWA due to foreign exchange translation.
- 4. The economic value of the Bank, which includes:
  - a) Points 1 and 2 above, plus
  - b) Changes in the economic value of other non-trading positions, net interest income, and fee based income, as a result of changes in market risk factors.

## Market risk controls - FVTPL positions, including trading portfolios<sup>1</sup>

As an element of the ERAF, the Board approves our overall market risk appetite. The Market and Counterparty Credit Risk function within GRM is responsible for creating and managing the controls and governance procedures that are designed to ensure that risk taken is consistent with risk appetite constraints set by the Board. These controls include limits on probabilistic measures of potential loss such as Value-at-Risk and stress tests as defined below:

**Value-at-Risk (VaR)** is a statistical measure of potential loss for a financial portfolio computed at a given level of confidence and over a defined holding period. We measure VaR at the 99th percentile confidence level for price movements over a one-day holding period using historic simulation of the last two years of equally weighted historic market data. These calculations are updated daily with current risk positions, with the exception of certain less material positions that are not actively traded which are updated on at least a monthly basis. Trading VaR captures potential loss for our trading portfolio that excludes the impacts of non-trading FVTPL positions such as loan underwriting commitments. Total VaR captures potential loss for all positions classified as FVTPL.

VaR is a statistical estimate based on historical market data and should be interpreted with knowledge of its limitations, which include the following:

- VaR will not be predictive of future losses if the realized market movements differ significantly from the historical periods used to compute it.
- VaR projects potential losses over a one-day holding period and does not project potential losses for risk positions held over longer time periods.
- VaR is measured using positions at close of business and does not include the impact of trading and hedging activity over the course of a day.

We validate our VaR measures through a variety of means – including subjecting the models to vetting and validation by a group of independent model developers and by back-testing the VaR against daily marked-to-market revenue to identify and examine events in which actual outcomes in trading revenue exceed the VaR projections.

Stress tests – Our market risk stress testing program is used to identify and control risk due to large changes in market prices and rates. We conduct stress testing daily on positions that are marked-to-market. The stress tests simulate both historical and hypothetical events which are severe and long-term in duration. Historical scenarios are taken from actual market events and range in duration up to 90 days. Examples include the COVID-19 Pandemic of 2020, Global Financial Crisis of 2008 and the Taper Tantrum of 2013. Hypothetical scenarios are designed to be forward-looking at potential future market stresses, and are designed to be severe but plausible. We are constantly evaluating and refining these scenarios as market conditions change. Stress results are calculated assuming an instantaneous revaluation of our positions with no management action.

Trading portfolios are comprised of trading instruments in accordance with OSFI's Capital Adequacy Requirements (CAR) Guideline. Trading involves market-making, positioning and arbitrage activities conducted primarily within our Global Markets business in the Capital Markets segment.

These measures are computed on all positions that are FVTPL for financial reporting purposes, with the exception of those in a designated hedging relationship and those in our insurance businesses.

## Market risk measures - FVTPL positions

Market risk measures*														To	ıble	50
	October 31, 2024						October 31, 2023									
	For the year ended							For	the	year en	ded					
(Millions of Canadian dollars)		As at	Αv	erage		High		Low		As at	Av	erage		High		Low
Equity	\$	23	\$	14	\$	26	\$	6	\$	10	\$	11	\$	26	\$	6
Foreign exchange		6		5		10		2		4		3		25		2
Commodities		11		6		11		4		5		5		8		4
Interest rate (1)		23		30		44		19		38		32		49		20
Credit specific (2)		8		8		9		7		7		5		8		4
Diversification (3)		(37)		(34)		n.m.	- 1	n.m.		(35)		(31)		n.m.	r	n.m.
Trading VaR	\$	34	\$	29	\$	41	\$	20	\$	29	\$	25	\$	36	\$	16
Total VaR	\$	34	\$	70	\$	138	\$	26	\$	121	\$	51	\$	127	\$	27

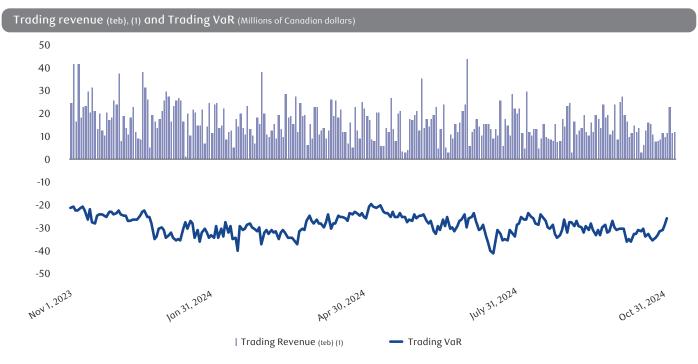
- This table represents an integral part of our 2024 Annual Consolidated Financial Statements.
- (1) General credit spread risk and funding spread risk associated with uncollateralized derivatives are included under interest rate VaR.
- Credit specific risk captures issuer-specific credit spread volatility. (2)
- Trading VaR is less than the sum of the individual risk factor VaR results due to risk factor diversification. (3)
- n.m. not meaningful

#### 2024 vs. 2023

Average Trading VaR of \$29 million increased \$4 million from last year, primarily driven by exposure changes in our securities financing portfolio.

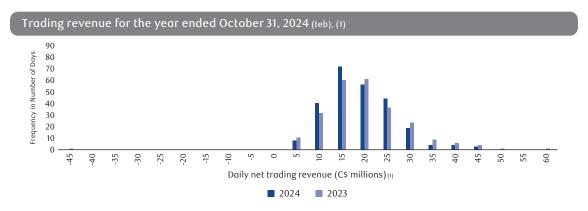
Average total VaR of \$70 million increased \$19 million from a year ago, primarily driven by the impact of management of closing capital volatility related to the HSBC Canada transaction, partially offset by a reduced impact relating to our loan underwriting commitments.

The following chart displays a bar graph of our daily trading revenue and a line graph of our daily market risk Trading VaR. We incurred no net trading losses in 2024.



Trading revenue (teb) in the chart above excludes the impact of loan underwriting commitments.

The following chart displays the distribution of daily trading revenue in 2024 and 2023 with no net trading losses in 2024 as noted above and one day of net trading losses in 2023. The largest reported trading revenue was \$44 million with an average daily revenue of \$17 million.



(1) Trading revenue (teb) amounts in the chart above exclude the impact of loan underwriting commitments and structured entities.

#### Market risk measures for assets and liabilities of RBC Insurance®2

We offer a range of insurance products to clients and hold investments to meet future obligations to policyholders. The investments which support actuarial liabilities are predominantly fixed income assets measured at FVTPL. Consequently, changes in the fair values of these assets are largely offset by changes in the discount rates used in the measurement of insurance and reinsurance contract assets and liabilities, and the impacts of both are reflected in Insurance investment result in the Consolidated Statements of Income. As at October 31, 2024, we held assets in support of \$20 billion of insurance contract liabilities net of insurance contract assets and reinsurance contracts held balances (October 31, 2023 – \$17 billion).

# Market risk controls - Interest Rate Risk in the Banking Book (IRRBB) positions<sup>3</sup>

IRRBB arises primarily from traditional customer-originated banking products such as deposits and loans, and includes related hedges and interest rate risk from securities held for liquidity management purposes. Factors contributing to IRRBB include mismatches between asset and liability repricing dates, relative changes in asset and liability rates in response to market rate scenarios, and other product features affecting the expected timing of cash flows, such as options to pre-pay loans or redeem term deposits prior to contractual maturity. IRRBB sensitivities are regularly measured and reported, and subject to limits and controls with independent oversight from GRM.

The Board approves the risk appetite for IRRBB, and the Asset Liability Committee (ALCO) and GRM provide ongoing governance through IRRBB risk policies, limits, operating standards and other controls. IRRBB reports are reviewed regularly by GRM, ALCO, the GRC, the Risk Committee of the Board and the Board.

#### IRRBB measurement

To monitor and control IRRBB, we assess two primary metrics, Net Interest Income (NII) risk and Economic Value of Equity (EVE) risk, under a range of market shocks, scenarios, and time horizons. Market scenarios include currency-specific parallel and non-parallel yield curve changes, interest rate volatility shocks, and interest rate scenarios prescribed by regulators.

In measuring NII risk, detailed banking book balance sheets and income statements are dynamically simulated to estimate the impact of market stress scenarios on projected NII. Assets, liabilities and off-balance sheet positions are simulated over various time horizons. The simulations incorporate maturities, renewals, and new originations along with prepayment and redemption behaviour. Product pricing and volumes are forecasted based on past experience to determine response expectations under a given market shock scenario. EVE risk captures the market value sensitivity to changes in rates. In measuring EVE risk, deterministic (single-scenario) and stochastic (multiple-scenario) valuation techniques are applied to spot position data. NII and EVE risks are measured for a range of market risk stress scenarios which include extreme but plausible changes in market rates and volatilities. IRRBB measures assume continuation of existing hedge strategies.

Management of NII and EVE risk is complementary and supports our efforts to generate a sustainable high-quality NII stream. NII and EVE risks for specific units are measured daily, weekly or monthly depending on materiality, complexity and hedge strategy.

A number of assumptions affecting cash flows, product re-pricing and the administration of rates underlie the models used to measure NII and EVE risk. The key assumptions pertain to the projected funding date of mortgage rate commitments, fixed-rate loan prepayment behaviour, term deposit redemption behaviour, and the term and rate profile of non-maturity deposits. All assumptions are derived empirically based on historical client behaviour and product pricing with consideration of possible forward-looking changes. All models and assumptions used to measure IRRBB are subject to independent oversight by GRM.

#### Market risk measures - IRRBB 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 EVE and 12-month NII, assuming no subsequent hedging. Interest rate risk measures are based on current on and off-balance sheet positions which can change over time in response to business activity and management actions.

<sup>&</sup>lt;sup>2</sup> Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.

<sup>3</sup> IRRBB positions include the impact of derivatives in hedge accounting relationships, FVOCI securities used for interest rate risk management and economic hedges.

Market risk – IRRBB measures*			Table 51							
		October 31 2024								
	EVE risk	NII risk (1)								
(Millions of Canadian dollars)	Canadian U.S. dollar dollar impact impact	Canadian U.S. dollar Total dollar impact impact Tol	al EVE risk NII risk (1)							
Before-tax impact of: 100 bps increase in rates 100 bps decrease in rates	\$ (1,775) \$ (301) \$ 1,705 (42)	(2,076) \$ 264 \$ 136 \$ 40 1,663 (315) (187) (50	. ( , , , .							

- \* This table represents an integral part of our 2024 Annual Consolidated Financial Statements.
- (1) Represents the 12-month NII exposure to an instantaneous and sustained shift in interest rates.

As at October 31, 2024, an immediate and sustained -100 bps shock would have had a negative impact to our NII of \$502 million, down from \$751 million last year, and an immediate and sustained +100 bps shock would have had a negative impact to our EVE of \$2,076 million, up from \$1,552 million last year. The change in NII sensitivity reflects a change in product mix and the change in EVE sensitivity can be attributed to net growth in fixed rate assets including growth in book capital. During 2024, NII and EVE risks remained within approved limits.

## Market risk measures for other material non-trading portfolios Investment securities carried at FVOCI

We held \$156 billion of investment securities carried at FVOCI as at October 31, 2024, compared to \$128 billion at the end of the prior year. 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 October 31, 2024, our portfolio of investment securities carried at FVOCI is interest rate sensitive and would impact OCI by a pre-tax change in value of \$5 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 \$31 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 IRRBB measures as at October 31, 2024 was \$152 billion. Our investment securities carried at FVOCI also include equity exposures of \$1 billion as at October 31, 2024, compared to \$1 billion at the end of the prior year.

# 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. Our other significant exposure is to the British pound due to our activities conducted internationally in this currency. A strengthening or weakening of the Canadian dollar compared to the U.S. dollar and British pound 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 RWA of the foreign currency-denominated asset. The reverse is true when the Canadian dollar depreciates against other currencies. Consequently, we 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 IRRBB measures and other internal non-trading market risk measures. We use interest rate swaps to manage our IRRBB, 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 and British Pound.

For further details on the application of hedge accounting and the use of derivatives for hedging activities, refer to Notes 2 and 9 of our 2024 Annual Consolidated Financial Statements.

# Linkage of market risk to selected balance sheet items

The following tables provide 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:

Linkage of market risk to selected balan	ce sl	heet items				Table 52
					As at October 31,	2024
				Market risk	measure	
(Millions of Canadian dollars)	Ва	lance sheet amount	Tr	aded risk (1)	Non-traded risk (2)	Non-traded risk primary risk sensitivity
Assets subject to market risk						
Cash and due from banks	\$	56,723	\$	- \$	56,723	Interest rate
Interest-bearing deposits with banks		66,020		3	66,017	Interest rate
Securities						
Trading		183,300		161,031	22,269	Interest rate, credit spread
Investment, net of applicable allowance		256,618		-	256,618	Interest rate, credit spread, equity
Assets purchased under reverse repurchase						
agreements and securities borrowed		350,803		299,032	51,771	Interest rate
Loans						
Retail		626,978		-	626,978	Interest rate
Wholesale		360,439		3,152	357,287	Interest rate
Allowance for loan losses		(6,037)	)	_	(6,037)	Interest rate
Other						
Derivatives		150,612		147,017	3,595	Interest rate, foreign exchange
Other assets		115,133		47,936	67,197	Interest rate
Assets not subject to market risk (3)		10,993				
Total assets	\$	2,171,582	\$	658,171 \$	1,502,418	
Liabilities subject to market risk						
Deposits	\$	1,409,531	\$	63,706 \$	1,345,825	Interest rate
Other						
Obligations related to securities sold short		35,286		34,985	301	
Obligations related to assets sold under						
repurchase agreements and securities						
loaned		305,321		280,386	24,935	Interest rate
Derivatives		163,763		157,587	6,176	Interest rate, foreign exchange
Other liabilities		94,666		39,802	54,864	Interest rate
Subordinated debentures		13,546		-	13,546	Interest rate
Liabilities not subject to market risk (4)		22,277				
Total liabilities	\$	2,044,390	\$	576,466 \$	1,445,647	
Total equity		127,192				
Total liabilities and equity	\$	2,171,582				
			-			

<sup>(1)</sup> Traded risk includes positions that are classified or designated as FVTPL and positions whose revaluation gains and losses are reported in revenue within our trading portfolios. Market risk measures of VaR and stress tests are used as risk controls for traded risk.

<sup>(2)</sup> Non-traded risk includes positions used in the management of IRRBB 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 IRRBB.

<sup>(3)</sup> Assets not subject to market risk include physical and other assets.

<sup>(4)</sup> Liabilities not subject to market risk include payroll related and other liabilities.

	As at October 31, 2023 (1)											
				Market risk n	neasure							
	Вс	lance sheet			Non-traded	Non-traded risk						
(Millions of Canadian dollars)		amount	Т	raded risk (2)	risk (3)	primary risk sensitivity						
Assets subject to market risk												
Cash and due from banks	\$	61,989	\$	- \$	61,989	Interest rate						
Interest-bearing deposits with banks		71,086		1	71,085	Interest rate						
Securities												
Trading		190,151		171,483	18,668	Interest rate, credit spread						
Investment, net of applicable allowance		219,579		_	219,579	Interest rate, credit spread, equity						
Assets purchased under reverse repurchase												
agreements and securities borrowed		340,191		304,672	35,519	Interest rate						
Loans												
Retail		569,951		_	569,951	Interest rate						
Wholesale		287,826		3,134	284,692	Interest rate						
Allowance for loan losses		(5,004)	)	_	(5,004)	Interest rate						
Other												
Derivatives		142,450		139,011	3,439	Interest rate, foreign exchange						
Other assets (4)		112,477		37,664	74,813	Interest rate						
Assets not subject to market risk (4), (5)		15,835										
Total assets	\$	2,006,531	\$	655,965 \$	1,334,731							
Liabilities subject to market risk												
Deposits	\$	1,231,687	\$	51,025 \$	1,180,662	Interest rate						
Other												
Obligations related to securities sold short		33,651		33,555	96							
Obligations related to assets sold under												
repurchase agreements and securities												
loaned		335,238		312,551	22,687	Interest rate						
Derivatives		142,629		130,094	12,535	Interest rate, foreign exchange						
Other liabilities (4)		116,445		41,778	74,667	Interest rate						
Subordinated debentures		11,386		_	11,386	Interest rate						
Liabilities not subject to market risk (4), (6)		20,348										
Total liabilities	\$	1,891,384	\$	569,003 \$	1,302,033							
Total equity		115,147										
Total liabilities and equity	\$	2,006,531										

<sup>(1)</sup> Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.

# 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. Liquidity risk arises from mismatches in the timing and value of on-balance sheet and off-balance sheet cash flows.

## Governance of liquidity risk

Our liquidity risk management activities are conducted in accordance with internal frameworks and policies, including the Enterprise Risk Management Framework (ERMF), the Enterprise Risk Appetite Framework (ERAF), the Enterprise Liquidity Risk Management Framework (LRMF), the Enterprise Liquidity Risk Policy, and the Enterprise Pledging Policy. Collectively, our frameworks and policies establish liquidity and funding management requirements appropriate for the execution of our strategy and ensuring liquidity risk remains within our risk appetite.

Liquidity risk objectives, policies and risk appetite are reviewed regularly, and updated to reflect changes in industry practice and relevant regulatory guidance. Enterprise policies are supported by subsidiary, operational, desk and product-level policies and standards that specify risk control elements, such as parameters, methodologies, limits and authorities governing the measurement and management of liquidity. Management practices, parameters, models and methodologies are also subject to regular review, and are updated to reflect market conditions and business mix. Stress testing is employed to assess the robustness of the control framework and inform liquidity contingency plans.

<sup>(2)</sup> Traded risk includes positions that are classified or designated as FVTPL and positions whose revaluation gains and losses are reported in revenue within our trading portfolios. Market risk measures of VaR and stress tests are used as risk controls for traded risk.

<sup>(3)</sup> Non-traded risk includes positions used in the management of IRRBB 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 IRRBB.

<sup>(4)</sup> Amounts have been revised from those previously presented to align with the definition of trading risk in accordance with OSFI's CAR Guidelines.

<sup>(5)</sup> Assets not subject to market risk include physical and other assets.

<sup>(6)</sup> Liabilities not subject to market risk include payroll related and other liabilities.

## Responsibilities for liquidity risk oversight and management

The Board, the Risk Committee of the Board, the Group Risk committee (GRC), the Asset Liability Committee (ALCO), and the Policy Review Committee (PRC) are accountable for the identification, assessment, control, monitoring and oversight of liquidity risk. The GRC, PRC and/or the ALCO review liquidity reporting and policies prior to review by the Board or its committees.

- The Board, the Risk Committee of the Board, the GRC and the ALCO regularly review information on our consolidated liquidity position;
- The PRC approves the Liquidity Risk Policy, which establishes minimum risk control elements in accordance with the Board-approved risk appetite and the LRMF, and the Pledging Policy, which outlines the requirements and authorities for the management of our pledging activities;
- The ALCO annually approves the Enterprise Liquidity Contingency Plan (ELCP) and provides strategic direction and oversight to Corporate Treasury, other functions, and business segments on the management of liquidity and funding. In addition to our committee oversight framework, liquidity risk management activities are subject to the three lines of defence governance model. Corporate Treasury, the first line of defence for the management of liquidity risk, is subject to independent second line challenge and oversight by GRM. RBC Internal Audit is the third line of defence. The three lines of defence are independent of the business whose activities generate liquidity risks.

# Liquidity risk mitigation strategies and techniques

Our liquidity management policies and practices are designed to ensure the soundness of our liquidity position. Our liquidity profile is structured to ensure that we have sufficient liquidity to satisfy current and prospective commitments in both normal and stressed conditions. For this purpose, we employ the following liquidity risk mitigation strategies and techniques:

- Maintaining a sufficient buffer of cash, central bank reserves, and unencumbered marketable securities, supported by a
  demonstrated capacity to monetize these securities during stress;
- Access to a broad range of funding sources, including a stable base of core client deposits and a diversified wholesale funding mix;
- Access to central bank funding facilities in Canada and the U.S., and select other jurisdictions in which we operate;
- Timely and granular risk measurement and reporting to control and monitor liquidity sources and uses, and inform liquidity risk management decisions;
- A comprehensive program for liquidity stress testing and crisis management;
- Governance of pledging activity through limits and designated liquid asset buffers to address potential increased pledging activity;
- Achieving an appropriate balance between the level of exposure allowed under our risk appetite and the cost of risk mitigation;
- Transparent liquidity transfer pricing and cost allocation mechanisms to align risk management with business strategies;
- A three-lines-of-defence governance model providing effective oversight and challenge of liquidity risk strategies, metrics, assumptions, and controls.

Our dedicated liquid asset portfolios are managed and controlled in accordance with internal policies and are subject to minimum asset quality and other relevant requirements (e.g., term to maturity, diversification, and eligibility for central bank advances). These securities, along with other unencumbered liquid assets held for trading or other activities, contribute to our liquidity reserve, as reflected in the liquidity disclosures below.

#### Risk tolerance

Our liquidity risk appetite is reviewed at a minimum annually by ALCO, GRC, and the Risk Committee of the Board before it is recommended for approval to the Board. Risk appetite, a key element of our enterprise risk management framework, is defined as the amount and type of risk that RBC is able and willing to take in pursuit of its business objectives.

## Risk measurement and internal liquidity reporting

We maintain robust liquidity risk measurement capabilities to support timely and frequent reporting of information for the management of our liquidity position and oversight of risk. This reporting, which includes internal and regulatory metrics, is used to monitor adherence with our risk appetite and limits, and position relative to regulatory minimums. Regulatory metrics used to manage and control liquidity risk include OSFI's Liquidity Coverage Ratio (LCR), Net Stable Funding Ratio (NSFR) and Net Cumulative Cash Flow (NCCF). The specificity with which we measure and manage liquidity allows us to make ongoing informed assessments of the demands and mobility of liquidity, considering currency requirements, access to foreign exchange markets and commitments, and expectations under local regulations.

Internal assessments of liquidity risk include application of scenario-specific assumptions against our assets and liabilities, and various off-balance sheet commitments and obligations to project cash flows over varying time horizons and degrees of stress. For example, certain government bonds could be quickly and easily converted to cash without significant loss of value. In contrast, lower-rated securities may not be deemed appropriate sources of liquidity in times of stress, or may incur higher potential monetization costs. While relationship-based deposits contractually can be withdrawn immediately, in practice, these balances can be relatively stable sources of funding depending on several factors, such as the nature of the client and their intended use. Assumptions and methodologies informing our assessment of liquidity risk are periodically reviewed and validated to ensure alignment with our operating environment, expected economic and market conditions, rating agency preferences, regulatory requirements and generally accepted industry practices.

To manage liquidity risk within our liquidity risk appetite, we set limits on various metrics over a range of time horizons, jurisdictions and currencies. We also consider various levels of stress conditions in our development of appropriate contingency, recovery and resolution plans. Our liquidity risk measurement and control activities cover multiple areas:

# Structural (longer-term) liquidity risk

We use both internal and regulatory metrics to manage and control the structural alignment between long-term illiquid assets, the availability of core relationship deposits and longer-term funding. Conversely, we aim to align the use of shorter-term wholesale funding with assets of equivalent liquidity-generating potential.

# Tactical (shorter-term) liquidity risk

To address potential immediate cash flow risks during periods of stress, we use short-term net cash flow limits to control risk at the material unit, subsidiary and currency levels. Net cash flow positions are determined by applying internally-derived risk assumptions and parameters to known and anticipated cash flows for all material unencumbered assets, liabilities and off-balance sheet activities. Additional product-level controls and limits are employed to manage concentration risk and perceived market capacity limitations for more sensitive liquidity sources and uses. We also control tactical liquidity by adhering to relevant regulatory standards, such as LCR.

## Stress testing

Our comprehensive stress testing program informs internal assessments of the sufficiency of liquid assets, and whether they are adequately pre-positioned and accessible to meet stressed liquidity needs. Our stress tests, which include elements of scenario and sensitivity analyses, measure our prospective exposure to systemic and RBC-specific events over periods of time. Different degrees of severity are considered for each type of crisis with some scenarios reflecting multiple downgrades to our credit ratings.

# Contingency liquidity risk management and funding plans

Contingency liquidity risk planning assesses the impact of sudden stress on our liquidity risk position and identifies a range of potential mitigating actions and plans. Corporate Treasury maintains the Enterprise Liquidity Contingency Plan (ELCP) and regional liquidity contingency plans (LCPs) that identify potential sources of stress and guide our responses to liquidity crises. Potential sources of stress are calibrated based on relevant historical experience and resulting contingent funding needs, including those from draws on committed credit and liquidity lines, demands for increased collateral and deposit run-offs. The ELCP also identifies alternative liquidity sources and considerations for their use.

Additionally, under the leadership of Corporate Treasury, enterprise and regional Liquidity Crisis Teams (LCTs) each meet regularly to assess our liquidity status, review, and approve the LCPs and during times of stress, provide linkages to the front line and other functions to support effective and coordinated crisis management and oversight. Enterprise and local LCTs include members from key business segments, GRM, Finance, Operations, and Communications. The liquidity status assessment and monitoring process informs management, the Board and regulatory agencies of our assessment of internal and external events and their potential implications on liquidity risk.

# Liquidity reserve and asset encumbrance

The following tables provide summaries of our liquidity reserve and asset encumbrance. To varying degrees, unencumbered 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 include: (i) bank-owned liquid assets that are either pledged as collateral (e.g., repo financing and derivative pledging) or not freely available due to regulatory or internal policy requirements (e.g., earmarked to satisfy mandatory reserve or regional capital adequacy requirements and to maintain continuous access to payment and settlement systems); (ii) securities received as collateral from securities financing and derivative transactions which have either been re-hypothecated where permissible (e.g., to obtain financing through repos or to cover securities sold short) or have no liquidity value since re-hypothecation is prohibited; and (iii) illiquid assets that have been securitized and sold into the market or that have been pledged as collateral in support of structured term funding vehicles. As per our liquidity management framework and practice, encumbered assets are not considered a source of liquidity.

### Liquidity reserve

Our liquidity reserve consists only of available unencumbered liquid assets. Although unused wholesale funding capacity could be another potential source of liquidity, it is excluded in the determination of the liquidity reserve.

Liquidity reserve					Table 53
(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 deposits with banks	\$ 122,743	\$ -	\$ 122,743	\$ 3,269	\$ 119,474
Securities issued or guaranteed by sovereigns, central banks or multilateral development banks (1)	323,826	385,479	709,305	426,552	282,753
Other securities	165,875	126,205	292,080	163,635	128,445
Other liquid assets (2)	37,601		37,601	31,583	6,018
Total liquid assets	\$ 650,045	\$ 511,684	\$1,161,729	\$ 625,039	\$ 536,690

		А	s at	October 31, 202	23		
(Millions of Canadian dollars)	Bank-owned liquid assets	Securities received as ollateral from securities financing and derivative transactions		Total liquid assets		Encumbered liquid assets	encumbered liquid assets
Cash and deposits with banks (3)	\$ 135,353	\$ -	\$	135,353	\$	3,329	\$ 132,024
Securities issued or guaranteed by sovereigns, central banks or multilateral development banks (1) Other securities Other liquid assets (2)	325,002 130,209 31,706	363,377 118,651 -		688,379 248,860 31,706		425,109 153,700 28,953	263,270 95,160 2,753
Total liquid assets	\$ 622,270	\$ 482,028	\$	1,104,298	\$	611,091	\$ 493,207

	As at					
(Millions of Canadian dollars)	October 31 2024		October 31 2023			
Royal Bank of Canada Foreign branches Subsidiaries	\$ 243,915 69,723 223,052	\$	210,191 79,947 203,069			
Total unencumbered liquid assets	\$ 536,690	\$	493,207			

<sup>(1)</sup> 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) Encumbered liquid assets amount represents cash collateral and margin deposit amounts pledged related to OTC and exchange-traded derivative transactions.

The liquidity reserve is typically most affected by routine flows of retail and commercial client banking activities, where liquid asset portfolios reflect changes in deposit and loan balances, as well as business strategies and client flows related to the activities in Capital Markets. Corporate Treasury also affects liquidity reserves through the management of funding issuances, which could result in timing differences between when debt is issued and funds are deployed into business activities.

## 2024 vs. 2023

Total unencumbered liquid assets increased \$43 billion or 9% from last year, mainly due to an increase in both securities received under reverse repurchase agreements and on-balance sheet securities reflecting growth in deposits, partially offset by a decrease in cash and deposits with banks.

<sup>(3)</sup> Includes balances that were classified as held for sale and presented in Other assets. For further details, refer to Note 6 of our 2024 Annual Consolidated Financial Statements.

#### 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, and those 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 October 31, 2024, our unencumbered assets available as collateral comprised 25% of total assets (October 31, 2023 – 24%).

Asset encumbrance Table 54

					As	at								
			October 31 2024			October 31 2023								
	Encumb	ered	Unencui	mbered		Encum	pered	Unencum						
(Millions of Canadian dollars)	Pledged as collateral	Other (1)	Available as collateral (2)	Other (3)	Total	Pledged as collateral	Other (1)	Available as collateral (2)	Other (3)	Total				
Cash and deposits with banks (4) Securities	\$ -	\$ 3,269	\$ 119,474	\$ -	\$ 122,743	\$ -	\$ 3,329	\$ 132,024	\$ -	\$ 135,353				
Trading Investment, net of	86,124	-	105,489	2,488	194,101	99,990	-	100,517	2,252	202,759				
applicable allowance Assets purchased under reverse repurchase agreements and securities	19,668	-	236,950	-	256,618	7,752	-	211,827	-	219,579				
borrowed (5) Loans Retail	508,862	31,156	30,767	1,084	571,869	495,233	27,343	6,876	1,862	531,314				
Mortgage securities	27,927	_	29,523	_	57,450	26,365	_	28,079	_	54,444				
Mortgage loans	71,307	_	40,851	307,936	420,094	69,802	-	37,313	272,942	380,057				
Non-mortgage loans	6,343	-	-	143,091	149,434	6,775	-	-	128,675	135,450				
Wholesale	-	-	25,250	335,189	360,439	_	-	10,056	278,052	288,108				
Allowance for loan losses	-	-	-	(6,037)	(6,037)	_	-	_	(5,004)	(5,004)				
Other														
Derivatives Others (6) (7)	31,583	_	6,018	150,612 88,525	150,612 126,126	28,953	_	2,753	142,450 92,507	142,450 124,213				
Total assets	\$ 751,814	\$ 34,425	\$ 594,322	\$ 1,022,888	\$ 2,403,449	\$ 734,870	\$ 30,672	\$ 529,445	\$ 913,736	\$ 2,208,723				

- (1) Includes assets restricted from use to generate secured funding due to legal or other constraints.
- (2) Represents assets that are immediately available for use as collateral, including NHA MBS, our unencumbered mortgage loans that qualify as eligible collateral at FHLB, as well as loans that qualify as eligible collateral for discount window facility available to us and lodged at the FRBNY.
- (3) Other unencumbered assets are not subject to any restrictions on their use to secure funding or as collateral but would not be considered immediately available.
- (4) Includes balances that were classified as held for sale and presented in Other assets. For further details, refer to Note 6 of our 2024 Annual Consolidated Financial Statements.
- (5) Includes bank-owned liquid assets and securities received as collateral from off-balance sheet securities financing, derivative transactions, and margin lending.
  Includes \$31 billion (October 31, 2023 \$27 billion) of collateral received through reverse repurchase transactions that cannot be rehypothecated in its current legal form.
- (6) Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.
- (7) The Pledged as collateral amount represents cash collateral and margin deposit amounts pledged related to OTC and exchange-traded derivative transactions.

# 2024 vs. 2023

Total unencumbered assets available as collateral have increased \$65 billion from last year, mainly due to an increase in both on-balance sheet securities and securities received under reverse repurchase agreements, as well as higher available loan balances eligible as collateral at FHLB. These factors were partially offset by a decrease in cash and deposits with banks.

# Funding

#### Funding strategy

Maintaining a diversified funding base is a key strategy for managing our liquidity risk profile.

Core funding, comprising capital, longer-term wholesale liabilities and a diversified pool of personal as well as the stable portion of our commercial and institutional deposits, is the foundation of our structural liquidity position.

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 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.

We regularly assess our funding concentration and have implemented limits on certain funding sources to support diversification of our funding base.

# Deposit and funding profile

As at October 31, 2024, relationship-based deposits, which are the primary source of funding for retail and commercial lending, were \$977 billion or 55% of our total funding (October 31, 2023 – \$844 billion or 52%). 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 liquid asset buffers.

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 Canada Deposit Insurance Corporation (CDIC) to convert all or a portion of certain shares and liabilities of that bank into common shares. As at October 31, 2024, the notional value of issued and outstanding long-term debt subject to conversion under the Bail-in regime was \$111 billion (October 31, 2023 – \$106 billion). For further details on our wholesale funding, refer to the Composition of wholesale funding tables below.

#### Long-term debt issuance

During 2024, we continued to experience favourable unsecured wholesale funding access and pricing. We issued, either directly or through our subsidiaries, unsecured long-term funding of \$38 billion in various currencies and markets.

We use residential mortgage and credit card securitization programs as a source of funding and for liquidity and asset/liability management purposes. Our total secured long-term funding includes outstanding MBS sold, covered bonds that are collateralized with residential mortgages and securities backed by credit card receivables.

For further details, refer to the Off-balance sheet arrangements section.

Long-term funding sources* (1)			Table 55
	As	at	
	October 31		October 31
(Millions of Canadian dollars)	2024		2023
Unsecured long-term funding	\$ 150,682	\$	139,882
Secured long-term funding	83,353		74,720
Subordinated debentures	13,714		12,038
	\$ 247,749	\$	226,640

<sup>\*</sup> This table represents an integral part of our 2024 Annual Consolidated Financial Statements.

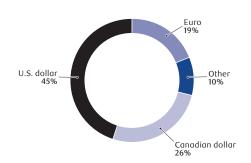
The following table summarizes our registered programs and their authorized limits by geography.

Canada	U.S.	Europe/Asia
• Canadian Shelf Program – \$25 billion	• U.S. Shelf Program – US\$75 billion	• European Debt Issuance Program – US\$75 billion
		• Global Covered Bond Program – €75 billion
		• Japanese Issuance Programs – ¥1 trillion

We also raise long-term funding using Canadian Senior Notes, 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).

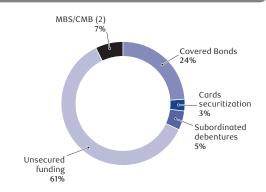
As presented in the following charts, our current long-term debt profile is well-diversified by both currency and product.

# Long-term debt (1) – funding mix by currency of issuance



 Includes unsecured and secured long-term funding and subordinated debentures with an original term to maturity greater than 1 year

# Long-term debt (1) – funding mix by product



- (1) Includes unsecured and secured long-term funding and subordinated debentures with an original term to maturity greater than 1 year
- (2) Mortgage-backed securities and Canada Mortgage Bonds

<sup>(1)</sup> Based on original term to maturity greater than 1 year.

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

Composition of wholesale funding (1)									Table 57
					As at Octob	er 31, 2024			
		ess than	1 to 3	3 to 6	6 to 12	Less than 1 year	1 year to	2 years and	
(Millions of Canadian dollars)	١	1 month	months	months	months	sub-total	2 years	greater	Total
Deposits from banks (2)	\$	7,248	\$ 118 \$	120	\$ 1,025 \$	8,511 \$	_	\$ -	\$ 8,511
Certificates of deposit and commercial paper (3), (4)		8,377	10,413	16,882	37,702	73,374	139	_	73,513
Asset-backed commercial paper (5)		4,140	3,951	7,167	2,286	17,544	-	_	17,544
Senior unsecured medium-term notes (4), (6)		5,436	7,786	7,253	12,750	33,225	20,453	57,351	111,029
Senior unsecured structured notes (7)		1,249	1,846	4,668	3,263	11,026	3,540	19,851	34,417
Mortgage securitization		41	509	1,296	946	2,792	2,143	11,949	16,884
Covered bonds/asset-backed securities (8)		-	2,243	1,514	7,451	11,208	19,017	36,245	66,470
Subordinated liabilities		_	-	_	_	_	2,088	11,626	13,714
Other (4), (9)		5,121	311	1,082	1,460	7,974	16,992	160	25,126
Total	\$	31,612	\$ 27,177 \$	39,982	\$ 66,883 \$	165,654 \$	64,372	\$ 137,182	\$ 367,208
Of which:									
– Secured	\$	9,252	\$ 6,788 \$	9,977	\$ 10,683 \$	36,700 \$	21,160	\$ 48,194	\$ 106,054
– Unsecured		22,360	20,389	30,005	56,200	128,954	43,212	88,988	261,154

	As at October 31, 2023													
(Millions of Canadian dollars)		Less than 1 month	1 to 3 months	3 to 6 months	6 to 12 months	Less than 1 year sub-total	1 year to 2 years	2 years and greater	Total					
Deposits from banks (2)	\$	4,606 \$	460 \$	319 \$	355 \$	5,740 \$	- \$	- \$	5,740					
Certificates of deposit and commercial paper (3), (4)		11,558	8,231	12,575	28,202	60,566	69	_	60,635					
Asset-backed commercial paper (5)		4,533	3,829	6,354	2,155	16,871	-	_	16,871					
Senior unsecured medium-term notes (4), (6)		1,118	6,311	733	18,828	26,990	22,790	54,070	103,850					
Senior unsecured structured notes (7)		1,343	1,898	2,081	3,343	8,665	5,495	15,744	29,904					
Mortgage securitization		-	530	375	1,484	2,389	2,225	9,607	14,221					
Covered bonds/asset-backed securities (8)		-	3,236	-	1,685	4,921	10,844	44,733	60,498					
Subordinated liabilities		_	-	-	1,500	1,500	2,748	7,791	12,039					
Other (4), (9)		6,415	3,887	976	1,289	12,567	14,058	90	26,715					
Total	\$	29,573 \$	28,382 \$	23,413 \$	58,841 \$	140,209 \$	58,229 \$	132,035 \$	330,473					
Of which:														
- Secured	\$	10,861 \$	10,124 \$	7,483 \$	5,324 \$	33,792 \$	13,069 \$	54,340 \$	101,201					
- Unsecured		18,712	18,258	15,930	53,517	106,417	45,160	77,695	229,272					

- (1) Excludes bankers' acceptances and repos.
- (2) Excludes deposits associated with services we provide to banks (e.g., custody, cash management).
- (3) Includes bearer deposit notes (unsecured).
- (4) In the first quarter of 2024, we changed our presentation to include bearer deposit notes (unsecured) within Certificates of deposit and commercial paper and to include floating rate notes (unsecured) within Senior unsecured medium-term notes to better align with how we view our composition of wholesale funding. These amounts were previously included in Other. Prior period amounts have been revised from those previously presented to conform to the presentation adopted in the current period.
- (5) Only includes consolidated liabilities, including our collateralized commercial paper program.
- (6) Includes deposit notes and floating rate notes (unsecured).
- (7) Includes notes where the payout is tied to movements in foreign exchange, commodities and equities.
- (8) Includes covered bonds collateralized with residential mortgages and securities backed by credit card receivables.
- (9) Includes tender option bonds (secured) of \$5,157 million (October 31, 2023 \$5,104 million), other long-term structured deposits (unsecured) of \$19,777 million (October 31, 2023 \$16,896 million), FHLB advances (secured) of \$nil (October 31, 2023 \$4,507 million), and wholesale guaranteed interest certificates of \$192 million (October 31, 2023 \$208 million).

#### Credit ratings

Our ability to access unsecured funding markets and to engage in certain collateralized business activities on a cost-effective basis are largely dependent on 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.

The following table presents our major credit ratings:

Credit ratings (1)				Table 58
		As at December 3, 2	024	
	Short-term debt	Legacy senior long-term debt (2)	Senior long-term debt (3)	Outlook
Moody's (4)	P-1	Aa1	A1	stable
Standard & Poor's (5)	A-1+	AA-	Α	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 in as much 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 October 8, 2024, Moody's affirmed our ratings with stable outlook.
- (5) On June 25, 2024, Standard & Poor's affirmed our ratings with a stable outlook.
- (6) On June 11, 2024, Fitch Ratings affirmed our ratings with a stable outlook.
- (7) On May 10, 2024, DBRS affirmed our ratings with a stable outlook.

# Additional contractual obligations for rating downgrades

We are required to deliver collateral to certain counterparties in the event of a downgrade from our current credit rating. The following table shows the additional collateral obligations required at the reporting date in the event of a one-, two- or three-notch downgrade. 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 due to 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										Tab	e 59	
					at							
		00	ctober 31						ober 31			
	2024						2023					
	One-notch		wo-notch		ee-notch		e-notch		o-notch		e-notch	
(Millions of Canadian dollars)	downgrade	do	wngrade	do	wngrade	dov	vngrade	dow	/ngrade	dov	/ngrade	
Contractual derivatives funding or margin requirements	\$ 232	\$	100	\$	199	\$	217	\$	138	\$	199	
Other contractual funding or margin requirements (1)	41		63		16		41		57		42	

<sup>(1)</sup> Includes 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 BCBS and OSFI regulatory minimum coverage level for LCR is 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.

Stable deposits (3)	For the three of October 20  Total unweighted value (average) (2)  \$ 404,173 129,256 274,917 446,275	ber 31	Total weighted value (average)
High-quality liquid assets Total high-quality liquid assets (HQLA)  Cash outflows Retail deposits and deposits from small business customers, of which: Stable deposits (3)	Total unweighted value (average) (2)  \$ 404,173 129,256 274,917	\$	Total weighted value (average)
High-quality liquid assets Total high-quality liquid assets (HQLA)  Cash outflows Retail deposits and deposits from small business customers, of which: Stable deposits (3)	Total unweighted value (average) (2)  \$ 404,173	\$	399,835
High-quality liquid assets Total high-quality liquid assets (HQLA)  Cash outflows Retail deposits and deposits from small business customers, of which: Stable deposits (3)	\$ 404,173 129,256 274,917		399,835
Total high-quality liquid assets (HQLA)  Cash outflows Retail deposits and deposits from small business customers, of which: Stable deposits (3)	129,256 274,917		<u> </u>
Cash outflows Retail deposits and deposits from small business customers, of which: Stable deposits (3)	129,256 274,917		<u> </u>
Retail deposits and deposits from small business customers, of which: Stable deposits (3)	129,256 274,917	\$	40.202
Stable deposits (3)	129,256 274,917	\$	40.202
	274,917		40,302
Lago stable deposite			3,878
Less stable deposits	446.275		36,424
Unsecured wholesale funding, of which:	,		202,996
Operational deposits (all counterparties) and deposits in networks of cooperative			
banks (4)	171,270		40,319
Non-operational deposits	256,251		143,923
Unsecured debt	18,754		18,754
Secured wholesale funding			40,340
Additional requirements, of which:	399,537		85,096
Outflows related to derivative exposures and other collateral requirements	70,102		20,616
Outflows related to loss of funding on debt products	11,723		11,723
Credit and liquidity facilities	317,712		52,757
Other contractual funding obligations (5)	24,866		24,866
Other contingent funding obligations (6)	810,866		14,496
Total cash outflows		\$	408,096
Cash inflows			
	\$ 298,783	\$	53,693
Inflows from fully performing exposures	19,009		11,269
Other cash inflows	29,693		29,693
Total cash inflows		\$	94,655
			Total adjusted value
Total HQLA	-	\$	399,835
Total net cash outflows		Ÿ	313,441
Liquidity coverage ratio			128%
1 , 0	July	y 31	
_	20		
(Millions of Canadian dollars, except percentage amounts)			Total adjusted value
Total HQLA		\$	389,190
Total net cash outflows		Y	308,325
Liquidity coverage ratio			126%

<sup>(1)</sup> 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 October 31, 2024 is calculated as an average of 63 daily positions.

<sup>(2)</sup> 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.

<sup>(3)</sup> 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.

<sup>(4)</sup> Operational deposits from customers other than retail and small and medium-sized enterprises, are deposits which clients need to keep with the bank in order to facilitate their access and ability to use payment and settlement systems primarily for clearing, custody and cash management activities.

<sup>(5)</sup> Other contractual funding obligations primarily include outflows from unsettled securities trades and outflows from obligations related to securities sold short.

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

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

We maintain HQLA in major currencies with dependable market depth and breadth. Our treasury management practices are designed to 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 87% 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.

## Q4 2024 vs. Q3 2024

The average LCR for the quarter ended October 31, 2024 was 128%, which translates into a surplus of approximately \$86 billion, compared to 126% and a surplus of approximately \$81 billion in the prior quarter. Average LCR moderately increased compared to the prior quarter mainly due to an increase in retail and wholesale deposits, largely offset by a decline due to securities and securities financing transactions.

# Net Stable Funding Ratio (NSFR)

NSFR is a Basel III metric that measures the sufficiency of available stable funding relative to the amount of required stable funding. The BCBS and OSFI regulatory minimum coverage level for NSFR is 100%.

Available stable funding is defined as the portion of capital and liabilities expected to be reliable over the one-year time horizon considered by the NSFR. Required stable funding is a function of the liquidity characteristics and residual maturities of various bank assets and off-balance sheet exposures.

OSFI requires Canadian D-SIBs to disclose the NSFR using the standard Basel disclosure template. Amounts presented in this disclosure template are determined in accordance with the requirements of OSFI's LAR guideline and are not necessarily aligned with the classification requirements prescribed under IFRS.

	Unw	eighted value by	residual maturi	ty (2)	
			6 months to		
(Millions of Canadian dollars, except percentage amounts)	No maturity	< 6 months	< 1 year	≥1 year	Weighted value
Available Stable Funding (ASF) Item	A 100 (12				
Capital:	\$ 128,613	\$ -	\$ -	\$ 12,535	
Regulatory Capital Other Capital Instruments	128,613	_	_	12,535	141,148
Retail deposits and deposits from small business customers:	339,625	132,676	63,135	68,039	549,519
Stable deposits (3)	99,281	54,888	32,284	29,534	206,665
Less stable deposits	240,344	77,788	30,851	38,505	342,854
Wholesale funding:	331,656	442,583	76,397	162,005	395,947
Operational deposits (4)	180,797	-	_	-	90,399
Other wholesale funding	150,859	442,583	76,397	162,005	305,548
Liabilities with matching interdependent assets (5) Other liabilities:	E1 21E	2,701	1,535 242,015	22,638	16 606
NSFR derivative liabilities	51,315		26,474		16,606
All other liabilities and equity not included in the above			20,77		
categories	51,315	198,205	1,460	15,876	16,606
Total ASF	31,313	.,,,,,,	.,		\$1,103,220
					71,103,220
Required Stable Funding (RSF) Item					¢ 45.224
Total NSFR high-quality liquid assets (HQLA)					\$ 45,224
Deposits held at other financial institutions for operational		1 555			777
purposes Performing loans and securities:	296,363	1,555 337,673	126,892	522,122	777 784,047
Performing loans to financial institutions secured by Level 1	270,303	337,073	120,072	322,122	704,047
HQLA	_	104,289	10,795	50	10,947
Performing loans to financial institutions secured by		,	,		ŕ
non-Level 1 HQLA and unsecured performing loans to					
financial institutions	12,573	123,014	31,267	18,510	61,307
Performing loans to non-financial corporate clients, loans to					
retail and small business customers, and loans to sovereigns, central banks and PSEs, of which:	193,510	60.080	22 255	167 294	252 660
With a risk weight of less than or equal to 35% under the	193,310	60,080	32,355	167,384	352,660
Basel II standardized approach for credit risk	_	597	496	5,310	3,998
Performing residential mortgages, of which:	39,992	46,526	51,112	312,269	293,801
With a risk weight of less than or equal to 35% under the	•	,	,	,	ŕ
Basel II standardized approach for credit risk	39,992	46,487	51,081	311,134	292,802
Securities that are not in default and do not qualify as HQLA,					
including exchange-traded equities	50,288	3,764	1,363	23,909	65,332
Assets with matching interdependent liabilities (5)	- 019	2,701	1,535	22,638	102.009
Other assets: Physical traded commodities, including gold	6,018 6,018		336,495		102,008 5,115
Assets posted as initial margin for derivative contracts and	0,018				3,113
contributions to default funds of CCPs			26,422		22,459
NSFR derivative assets			29,983		3,509
NSFR derivative liabilities before deduction of variation			_ = , , , , ,		
margin posted			58,204		2,910
All other assets not included in the above categories	_	156,486	14	65,386	68,015
Off-balance sheet items			876,651		33,928
Total RSF					\$ 965,984
Net Stable Funding Ratio (%)					114%
Het Stable I dilaling Ratio (70)					11470

	As at July 31, 2024
(Millions of Canadian dollars, except percentage amounts)	Weighted value
Total ASF	\$ 1,077,002
Total RSF	941,437
Net Stable Funding Ratio (%)	114%

The NSFR is calculated in accordance with OSFI's Liquidity Adequacy Requirements (LAR) guideline, which, in turn, reflects liquidity-related requirements issued by the (1) BCBS.

 $Totals \ for the following \ rows \ encompass \ the \ residual \ maturity \ categories \ of \ less \ than \ 6 \ months, \ 6 \ months \ to \ less \ than \ 1 \ year, \ and \ greater \ than \ or \ equal \ to \ 1 \ year \ in \ normal \ for \ normal$ (2) accordance with the requirements of the common disclosure template prescribed by OSFI: Other liabilities, NSFR derivative liabilities, Other assets, Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs, NSFR derivative assets, NSFR derivative liabilities before deduction of variation margin posted, and Off-balance sheet items.

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, are deposits which clients need to keep with the bank in order to facilitate their access and ability to use payment and settlement systems primarily for clearing, custody and cash management activities.

Interdependent assets and liabilities represent National Housing Act Mortgage-Backed Securities (NHA MBS) liabilities, including liabilities arising from transactions involving the Canada Mortgage Bond program and their corresponding encumbered mortgages.

Available stable funding is comprised primarily of a diversified pool of personal and commercial deposits, capital, and long-term wholesale liabilities. Required stable funding is driven mainly by the bank's mortgage and loan portfolio, secured loans to financial institutions and to a lesser extent by other less liquid assets. NSFR does not reflect any unused market funding capacity that we believe would be available.

Volume and composition of available stable funding is actively managed to optimize our structural funding position and meet NSFR objectives. Our NSFR is managed in accordance with our comprehensive LRMF.

#### Q4 2024 vs. Q3 2024

The NSFR as at October 31, 2024 was 114%, which translates into a surplus of approximately \$137 billion, compared to 114% and a surplus of approximately \$136 billion in the prior quarter. NSFR remained relatively stable from the previous quarter as the increase in deposits and stable funding was offset by higher funding requirements for securities, securities financing transactions and loans.

## 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) and maturity profiles of assets and liabilities of insurance contracts and reinsurance contracts held at their carrying value based on the estimated timing of when the settlement of the amounts are expected to occur 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 and internal liquidity reporting section.

Contractual maturities of finance	cial asset	s, financ	ial liabili	ties and ol	tt-balan	ice sheet	items			Table 62
					As at Oct	tober 31, 202	24			
					0.1.40			_	With no	
(NA:II:	Less than	1 to 3	3 to 6	6 to 9	9 to 12	1 year	2 years	5 years	specific	Tabal
(Millions of Canadian dollars)	1 month	months	months	months	months	to 2 years	to 5 years a	na greater	maturity	Total
Assets Cash and deposits with banks Securities	\$ 120,584	\$ 6	\$ -	\$ - \$	-	\$ -	\$ - !	\$ - \$	2,153	\$ 122,743
Trading (1)	80,203	148	380	22	34	229	707	11,903	89,674	183,300
Investment, net of applicable allowance Assets purchased under reverse repurchase	5,974	7,588	6,782	12,445	9,746	51,674	67,730	93,451	1,228	256,618
agreements and securities borrowed (2)	170,052	65,837	57,921	15,720	20,727	181	-	-	20,365	350,803
Loans, net of applicable allowance Other	40,647	32,131	45,916	52,365	50,309	287,726	288,217	79,694	104,375	981,380
Customers' liability under acceptances Derivatives	13,657	19,365	9,293	6,548	5,797	17,376	11 31,389	47,187	_	35 150,612
Other financial assets	42,579	4,573	2,168	423	671	17,376	732	1,829	4,229	57,379
Total financial assets	473,718	129,650	122,460	87,523	87,284	357,361	388,786	234,064	222,024	2,102,870
Other non-financial assets	11,393	2,158	1,450	259	233	1,941	3,122	9,501	38,655	68,712
Total assets	\$ 485,111	\$ 131,808	\$ 123,910	\$ 87,782 \$	87,517	\$ 359,302	\$ 391,908	\$ 243,565 \$	260,679	\$ 2,171,582
Liabilities and equity Deposits (3)										
Unsecured borrowing	\$ 122,083			\$ 84,252 \$		\$ 55,196			668,975	\$ 1,293,942
Secured borrowing	4,437	6,000	9,513	3,939	1,956	7,447	14,969	9,050	-	57,311
Covered bonds Other	-	2,245	1,498	4,019	2,230	17,134	27,207	3,945	-	58,278
Acceptances	22	2	_	_	_	_	11	_	_	35
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities	35,286	_	-	-	-	-	-	-	-	35,286
loaned (2)	221,377	38,828	14,726	7,586	2	466	_	_	22,336	305,321
Derivatives	13,153	23,372	12,176	11,160	8,025	18,305	32,865	44,707	_	163,763
Other financial liabilities	40,922	3,332	2,917	2,060	2,024	1,073	2,393	16,788	1,293	72,802
Subordinated debentures	-	-	-		-	2,025		11,521		13,546
Total financial liabilities	437,280	146,712	124,404	113,016	91,444	101,646	162,903	130,275	692,604	2,000,284
Other non-financial liabilities	1,501	5,769	452	231	198	1,664	1,821	21,425	11,045	44,106
Equity	-								127,192	127,192
Total liabilities and equity	\$ 438,781	\$ 152,481	\$ 124,856	\$ 113,247 \$	91,642	\$ 103,310	\$ 164,724	\$ 151,700 \$	830,841	\$ 2,171,582
Off-balance sheet items Financial guarantees Commitments to extend credit	\$ 917 7,317	\$ 2,929 9,060	\$ 4,485 15,891	17,305	4,368 20,109	\$ 1,563 63,200	\$ 7,140 S	\$ 1,977 \$ 25,580	5 25 2,950	\$ 27,222 378,967
Other credit-related commitments	51,645	1,600	2,360	2,927	2,534	460	1,299	113	81,379	144,317
Other commitments	7	12	19	20	19	70	179	260	926	1,512
Total off-balance sheet items	\$ 59,886	\$ 13,601	\$ 22,755	\$ 24,070 \$	27,030	\$ 65,293	\$ 226,173	\$ 27,930 \$	85,280	\$ 552,018

<sup>(1)</sup> With the exception of debt securities within the Insurance segment, 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.

<sup>2)</sup> Open reverse repo and repo contracts, which have no set maturity date and are typically short-term, have been included in the with no specific maturity category.

<sup>(3)</sup> 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 October 31, 2023 (1)										
(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	\$ 130,121 \$	8 \$	- \$	- \$	-	\$ - \$	-	\$ - \$	2,946 \$	133,075	
Securities Trading (2)	117.373	56	103	26	46	99	127	8.997	62.224	190,151	
Trading (2) Investment, net of applicable allowance	5.090	6.436	3,890	5,547	8,678	41,734	66.047	81,337	63,324 820	219,579	
Assets purchased under reverse repurchase	3,070	0,430	3,070	3,547	0,070	71,737	00,047	01,557	020	217,377	
agreements and securities borrowed (3)	146,722	71,346	60,468	20,475	16,889	3,754	_	_	20,537	340,191	
Loans, net of applicable allowance	30,889	23,026	31,442	37,978	41,285	201,479	320,082	77,460	89,132	852,773	
Other											
Customers' liability under acceptances	16,493	5,247	-	-	-	-	5	_	(50)	21,695	
Derivatives	10,074	13,655	9,292	6,955	6,173	18,905	33,260	44,136	-	142,450	
Other financial assets	41,115	2,803	3,205	212	588	191	279	2,513	3,170	54,076	
Total financial assets	497,877	122,577	108,400	71,193	73,659	266,162	419,800	214,443	179,879	1,953,990	
Other non-financial assets	5,651	666	1,765	190	2,550	1,976	2,422	8,615	28,706	52,541	
Total assets	\$ 503,528 \$	123,243 \$	110,165 \$	71,383 \$	76,209	\$ 268,138 \$	422,222	\$ 223,058 \$	208,585 \$	2,006,531	
Liabilities and equity											
Deposits (4)											
Unsecured borrowing	\$ 109,666 \$		62,531 \$	76,957 \$	66,846				588,165 \$		
Secured borrowing	4,992	6,044	7,337	4,100	1,489	6,965	13,616	8,706	-	53,249	
Covered bonds	_	2,543	_	_	1,687	9,422	31,847	4,705	_	50,204	
Other	46.400	· -					_			24 7 4 7	
Acceptances	16,493	5,247	_	_	-	_	5	-	_	21,745	
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities	33,651	_	-	-	_	_	_	-	_	33,651	
loaned (3)	254,955	37,121	19,509	(6)	(1)	279	_	_	23,381	335,238	
Derivatives	9,716	16,359	9,311	6,346	5,974	19,290	32,400	43,233	_	142,629	
Other financial liabilities	43,397	5,295	3,028	1,382	1,673	959	2,253	14,402	3,945	76,334	
Subordinated debentures	-	-	-	-	-	-	1,937	9,449	-	11,386	
Total financial liabilities	472,870	131,737	101,716	88,779	77,668	96,760	159,840	107,809	615,491	1,852,670	
Other non-financial liabilities	1,856	6,422	221	216	150	1,048	2,009	17,228	9,564	38,714	
Equity	-	-	-	-	-	-	-	-	115,147	115,147	
Total liabilities and equity	\$ 474,726 \$	138,159 \$	101,937 \$	88,995 \$	77,818	\$ 97,808 \$	161,849	\$ 125,037 \$	740,202 \$	2,006,531	
Off-balance sheet items											
Financial guarantees	\$ 544 \$	2,013 \$	3,528 \$	3,691 \$	4,716	\$ 784 \$	7,314	\$ 701 \$	23 \$	23,314	
Commitments to extend credit	7,086	8,338	14,774	14,447	18,361	58,978	205,504	23,181	5,524	356,193	
Other credit-related commitments	14,799	1,173	1,563	1,858	1,659	169	435	49	95,099	116,804	
Other commitments	91	10	15	15	15	55	128	178	985	1,492	
Total off-balance sheet items	\$ 22,520 \$	11,534 \$	19,880 \$	20,011 \$	24,751	\$ 59,986 \$	213,381	\$ 24,109 \$	101,631 \$	497,803	

<sup>(1)</sup>  $Amounts \ have been \ restated \ from \ those \ previously \ presented \ as \ part \ of \ the \ adoption \ of \ IFRS \ 17, \ effective \ November \ 1, \ 2023. \ Refer \ to \ Note \ 2 \ of \ our \ 2024 \ Annual \ Presented \ Presente$ Consolidated Financial Statements for further details on these changes.

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With the exception of debt securities within the Insurance segment,  $\overline{t}$  rading debt securities classified as FVTPL have been included in the less than 1 month category as (2) there is no expectation to hold these assets to their contractual maturity.

Open reverse repo and repo contracts, which have no set maturity date and are typically short-term, have been included in the with no specific maturity category.

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.

#### Contractual maturities of financial liabilities and off-balance sheet items – undiscounted basis

Contractual maturities of financial liabilities and off-balance sheet items – undiscounted basis\*

The following tables provide remaining contractual maturity analysis of our financial liabilities and off-balance sheet items. Disclosed amounts are the contractual undiscounted cash flows of all financial liabilities (e.g., par value or amount payable upon maturity). The amounts do not reconcile directly with those in our consolidated balance sheets as the table incorporates only cash flows relating to payments on maturity and do not recognize premiums, discounts or mark-to-market adjustments recognized in the instruments' carrying values as at the balance sheet date. Financial liabilities are based upon the earliest period in which they are required to be paid. For off-balance sheet items, the undiscounted cash flows potentially payable under financial guarantees and commitments to extend credit are classified based on the earliest date they can be called.

Contractual maturities of financial Habilities	ana on-baia	liice sii	ieet iteili	15 –	unaiscou	וווע	ea pasis"				Tuble 63
					As at Octol	oer 3	31, 2024				
	On		Within		1 year		2 years		5 years		
(Millions of Canadian dollars)	demand		1 year		to 2 years		to 5 years	(	and greater		Toto
Financial liabilities											
Deposits (1)	\$ 585,524	\$ 5	560,583	\$	79,909	\$	127,421	\$	58,193	\$	1,411,630
Other											
Acceptances	_		24		_		11		_		35
Obligations related to securities sold short	_		35,326		_		_		_		35,326
Obligations related to assets sold under	22,336		102 470		166						305,280
repurchase agreements and securities loaned Other liabilities	563	4	282,478 51,192		466 382		731		15,011		67,879
Lease liabilities	303		709		631		1,566		1,767		4,673
Subordinated debentures			709		2,026		1,300		11,530		13,556
Subordinated depentares	600.400								· · · · · · · · · · · · · · · · · · ·	_	· · · · · · · · · · · · · · · · · · ·
	608,423		930,312		83,414		129,729		86,501		1,838,379
Off-balance sheet items											
Financial guarantees (2)	\$ 25,553	\$	1,485	\$	10	\$	174	\$	_	\$	27,222
Other commitments (3)	_		77		70		179		260		586
Commitments to extend credit (2)	3,081	1	121,652		54,443		190,073		9,718		378,967
	28,634	1	123,214		54,523		190,426		9,978		406,775
Total financial liabilities and off-balance sheet							<u> </u>				
items	\$ 637,057	\$ 1,0	053,526	\$	137,937	\$	320,155	\$	96,479	\$	2,245,154
					As at Octo	ber 3	31, 2023				
	On		Within		1 year		2 years		5 years		
(Millions of Canadian dollars)	demand		1 year		to 2 years		to 5 years		and greater		Tota
Financial liabilities											
Deposits (1)	\$ 510,868	\$	482,738	\$	74,465	\$	124,906	\$	42,920	\$	1,235,897
Other											
Acceptances	_		21,740		_		5		_		21,745
Obligations related to securities sold short	_		33,741		_		_		_		33,741
Obligations related to assets sold under			,								,.
repurchase agreements and securities loaned	23,381		311,154		279		_		_		334,814
Other liabilities	608		54,844		284		657		12,463		68,856
Lease liabilities	-		653		621		1,519		1,971		4,764
Subordinated debentures	_		055		UZ I		1,939		9,457		11,396
Subordinated depentales							•				
	534,857		904,870		75,649		129,026		66,811		1,711,213

Off-balance sheet items Financial guarantees (2)

Commitments to extend credit (2)

Total financial liabilities and off-balance sheet

Other commitments (3)

items

23,308

5,617

28,925

2

\$ 563,782 \$ 1,019,428 \$ 124,556 \$ 307,202 \$

55

48,848

48,907

128

178,048

178,176

178

9,185

9,363

76,174 \$ 2,091,142

61

114,495

114,558

23.314

356,193

379.929

422

<sup>\*</sup> This table represents an integral part of our 2024 Annual Consolidated Financial Statements.

<sup>(1)</sup> 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.

<sup>(2)</sup> We believe that it is highly unlikely that all or substantially all of these guarantees and commitments will be drawn or settled within one year, and contracts may expire without being drawn or settled. The management of the liquidity risk associated with potential extensions of funds is outlined in the preceding Risk measurement and internal liquidity reporting section.

<sup>(3)</sup> Includes commitments related to short-term and low-dollar value leases, leases not yet commenced, and lease payments related to non-recoverable tax.

## Insurance risk

Insurance risk refers to the potential financial loss that may arise where the amount, timing and/or frequency of benefit and/or premium payments under insurance and reinsurance contracts are different than expected. Insurance risk is distinct from those risks covered by other parts of our risk management framework (e.g., credit, market and operational risk) where those risks are ancillary to, or accompany, the risk transfer. Our main insurance sub-risks are: morbidity, mortality, longevity, policyholder behaviour (lapse) and travel risk. In addition, we are subject to expense risk, which is the exposure to the variability in future expenses that are expected to be incurred in servicing insurance contracts.

Our Insurance Risk Management Framework provides an overview of our processes and tools for identifying, assessing, managing, mitigating and reporting on the insurance risks that face the organization. These are also supported by our robust three lines of defence governance structure, which is consistent with our Enterprise Risk Management Framework.

# Operational risk

Operational risk is the risk of loss or harm resulting from people, inadequate or failed internal processes, controls and systems or from external events. Operational risk is inherent in all of our activities and third-party activities and failure to manage operational risk can result in direct or indirect financial loss, reputational impact or regulatory scrutiny and proceedings in the various jurisdictions where we operate.

Our management of operational risk follows the three lines of defence governance model, encompassing the organizational roles and responsibilities for a coordinated enterprise-wide approach. For further details on the structure and organization of our operational risk management and control function, refer to the Risk management – Enterprise risk management section.

## Operational risk framework

We have an Enterprise Operational Risk Framework which sets out the processes to identify, assess, monitor, measure, report and communicate on operational risk. The processes are established through the following:

- Risk identification and assessment tools, including the collection and analysis of risk event data, help risk owners
  understand and proactively manage operational risk exposures. Risk assessments are intended to ensure alignment
  between risk exposures and efforts to manage them. Management uses outputs of these tools to make informed risk
  decisions.
- Risk monitoring tools alert management to changes in the operational risk profile. When paired with escalation and monitoring triggers, risk monitoring tools can identify risk trends, warn management of risk levels that approach or exceed defined limits, as well as prompt actions and mitigation plans to be undertaken.
- Risk capital measurement is designed to provide credible estimation of potential risk exposure, including surfacing risk vulnerabilities, and informs strategic and capital planning decisions, which are ultimately intended to ensure that the bank is sufficiently resilient to withstand operational risk losses both in normal times and under stress situations.
- Risk reporting and communication processes seek to ensure that relevant operational risk information is made available to management in a timely manner to support risk-informed business decisions.

Conclusions from our operational risk programs enable learning based on what has occurred, insights into whether it could happen elsewhere in the organization, and what controls we need to amend or implement. These conclusions support the articulation of our operational risk appetite and are used to inform the overall level of operational risk exposure which thereby defines our operational risk profile. This profile includes significant operational risk exposures, potential new and emerging exposures and trends, and overall conclusions on the control environment and risk outlook.

We consider the potential risks and rewards of our decisions to strike a balance between accepting potential losses versus incurring costs of mitigation, the expression of which is in the form of our operational risk appetite. Our operational risk appetite is established at the Board level and cascaded throughout each of our business segments. We proactively identify and investigate corporate insurance opportunities to mitigate and reduce potential future impacts of operational risk.

Management reports have been implemented at various levels to support proactive management of operational risk and transparency of risk exposures. These reports are provided to senior management on a regular basis and provide detail on the main drivers of the risk status and trend for each of our business segments and the bank overall. In addition, changes to the operational risk profile that are not aligned to our business strategy or operational risk appetite are identified and discussed at the Operational Risk Committee (comprised of executives across the business and risk management) and presented to GRC and the Risk Committee of the Board.

Our operations expose us to many different operational risks, which may adversely affect our businesses and financial results. The following list is not exhaustive, as other factors could also adversely affect our results.

## Operational risk

# Management strategy

# Information technology and cybersecurity risk



Information technology risk is the risk associated with the use, ownership, operation and adoption of information systems that can result in business interruptions, client service disruptions and loss of confidential information causing financial loss, reputational damage, and regulatory fines and penalties. We maintain a risk driven program to address the risks following our operational risk framework supported by a global team of technology risk management experts.

Cybersecurity risk is the risk to the business associated with cyberattacks initiated to disrupt or disable our operations or to expose or damage data. We have a dedicated team of technology and cybersecurity professionals that manage a comprehensive program to help protect the organization against breaches and other incidents by ensuring appropriate security and operational controls are in place. We continue to strengthen our cyber-control framework and to improve our resilience and cybersecurity capabilities including 24-hour monitoring, cyber intelligence analysis of internal and external threats, and alerting of potentially suspicious security events and incidents. Throughout the year, we continued to invest in our cybersecurity program. In addition, scenario-based testing, assessments and simulations were conducted to test our resiliency strategy.

# Information management and privacy risk



Information management risk is the risk of failing to manage information appropriately through its lifecycle due to inadequate processes, controls and technology resulting in legal and regulatory consequences, reputational damage and/or financial loss. We have made investments in the Enterprise Chief Data Office (CDO) and functional and regional data management and data governance units to promote awareness of and effectively manage information management risk. Managing information management risk is fundamental to become a data-driven organization that uses data effectively and efficiently to improve client experience and decision-making.

Privacy risk is defined as the risk of improper creation or collection, use, disclosure, retention or destruction of PI, including the failure to safeguard PI against unauthorized access. PI is information entrusted to RBC that identifies an individual or can be reasonably used to identity an individual. PI can relate to current, former and prospective clients, employees and contractors. The collection, use and sharing of data, as well as the management and governance of data, are increasingly important as we continue to invest in digital solutions and innovation, as well as expanding our business activities, which is also reflected through regulatory developments relating to data privacy. GRM partners with cross-functional teams to develop and implement enterprise-wide standards and practices that describe how data is obtained, used, protected, managed and governed.

# Money laundering and terrorist financing risk



Money laundering and terrorist financing risk is the risk that our products, services and delivery channels are misused to facilitate the laundering of proceeds of crime, financing of terrorist activity, bribery, corruption and other activities that may violate applicable economic sanctions (collectively know as "Financial Crimes"). We maintain an enterprise-wide program designed to deter, detect and report suspected money laundering and terrorist financing or suspicious activities across our organization, while seeking to ensure compliance with the laws and regulations of the various jurisdictions in which we operate. Our Enterprise Financial Crimes program is dedicated to the continuous development and maintenance of robust policies, guidelines, training, risk-assessment tools and models to enable our employees to manage evolving money laundering and terrorist financing risks, economic sanctions and regulatory expectations. The Enterprise Financial Crimes program is regularly evaluated in an effort to ensure it remains current and aligned with industry standards, best practices and all applicable laws, regulations and guidance. Risks of non-compliance can include enforcement actions (which may involve substantial fines or limitations on our business activities), criminal prosecutions and reputational damage.

## Third-party risk



Third-party risk is the risk of failure to effectively manage third parties which may expose us to service disruptions, regulatory action, financial loss, litigation or reputational damage. We have a risk-based, enterprise-wide program designed to provide oversight for third-party relationships, ensure compliance with global regulatory expectations, and enable effective responses to events that can cause service disruptions, financial loss or various other risks that could impact us. Our approach to third-party risk mitigation is outlined in policies and standards that establish the requirements for identifying and managing risks throughout the engagement with a third-party (including risks resultant from supplier concentration and through fourth parties across the supply chain). Third-party providers critical to our operations are actively monitored for their ability to deliver services to us, including impacts resultant from suppliers of our third-party providers (i.e. fourth parties).

## Business continuity risk



Business continuity risk is the risk of being unable to maintain, continue or restore essential business operations during and/or after an event that prevents us from conducting business in the normal course. Exposure to disruptive operational events interrupts the continuity of our business operations and could negatively impact our financial results, reputation, client outcomes and/or result in harm to our employees. These operational events could result from the impact of severe weather, outbreak of a pandemic or other health crisis, failed processes, technology failures or cyber threats. Our risk-based enterprise-wide business continuity management program considers multiple scenarios to address the consequences of a disruption and its effects on the availability of our people, processes, facilities, technology and third-party arrangements. Our approach to, and requirements for, business continuity management are outlined in policies and standards embedded across the organization and the related risks are regularly measured, monitored, reported and integrated into our operational risk management and control framework.

#### Operational risk capital

Requirements for operational risk capital are determined in accordance with OSFI's CAR guidelines using the Basel III Standardized Approach (SA) for operational risk. The SA methodology is a formula-based calculation where a Business Indicator Component (BIC) is multiplied by an Internal Loss Multiplier (ILM) to determine operational risk capital. The BIC is a financial statement-based proxy for operational risk that reflects a three-year average of specified components of net income multiplied by a set of supervisory provided coefficients. The ILM is a scaling factor that is based on our 10-year historical operational loss average relative to the BIC. Operational risk losses are recorded in our operational risk management system, and robust processes exist to support high quality internal loss data. For further details on operational risk capital, refer to the Capital management section.

## Operational risk loss events

As at October 31, 2024, our operational risk losses remain within our risk appetite. For further details on our contingencies, including litigation, refer to Notes 23 and 24 of our 2024 Annual Consolidated Financial Statements.

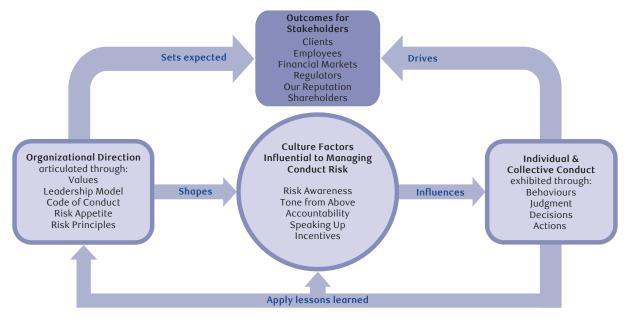
#### Culture and conduct risk

Our values set the foundation of our organizational culture and translate into desired behaviours as articulated in our Code of Conduct and leadership model. We define conduct as the manifestation of culture through the behaviours, judgment, decisions, actions and inactions of the organization and its employees. Our organizational direction establishes the expectation of good conduct outcomes as the operating norm for the organization, all employees and third-party service providers operating on our behalf to drive fair outcomes for our stakeholders, including our clients, our employees, the financial markets we operate in and our reputation. We hold ourselves to the highest standards of conduct to build the trust of our clients, colleagues and communities. The desired outcomes from effective culture and conduct practices align with our purpose and values and support our risk appetite statements.

Risk culture is a subset of our overall culture that influences how, individually and collectively, we take and manage risks. Our risk culture helps us identify and understand risks, openly discuss risks and act on the organization's current and perceived future risks. Our risk culture practices are grounded in our risk management and human resource practices and protocols. When combined with the elements of effective leadership and values, these practices provide a base from which the resulting risk culture and conduct outcomes can be assessed and monitored, and practices can be sustained and/or further enhanced.

Our Board-approved Enterprise Culture and Conduct Risks Framework provides organizational direction and describes our approach to a set of related topics applicable to all risk categories such as fair outcomes for clients and other stakeholders, and our culture, including accountability and risk culture, conduct risk, sales conduct, client practices and misconduct.

On a regular basis, management communicates behavioural expectations to our employees with an emphasis on conduct and values. Our leadership model also supports and encourages effective challenge between the businesses and control functions. These behavioural expectations are supported by tools and resources which are designed to help employees live our values, report misconduct and raise concerns, including those that might have ethical implications. We are committed to fostering an environment where employees feel safe to speak up without retaliation. Employees have the ability to report matters through a global anonymous Conduct Hotline. In addition, our Code of Conduct outlines an employee's responsibility to be truthful, respect others and comply with laws, regulations and our policies. Anyone who breaches or fails to report an actual or possible breach of the Code of Conduct is subject to corrective or disciplinary action. This can range from reprimands and impacts on performance ratings and compensation, to termination of employment relationships with the organization. As well, Internal Audit conducts select behavioural science reviews to better understand and enhance employee attitudes and behaviours as they relate to risk management.



## Compliance risk

Compliance risk is the risk of potential non-conformance with laws, rules, regulations and prescribed practices in any jurisdiction in which we operate. Issues regarding compliance with laws and regulations can arise in a number of areas in large complex financial institutions, such as ourselves, and are often the result of inadequate or failed internal processes, controls, people or systems. We currently are, and may be at any given time, subject to a number of legal and regulatory proceedings and subject to numerous governmental and regulatory examinations, investigations and other inquiries.

Laws and regulations are in place to protect the financial and other interests of our clients, shareholders and the public. As a large-scale global financial institution, we are subject to numerous laws and extensive and evolving regulation by governmental agencies, supervisory authorities and self-regulatory organizations in Canada, the U.S., the U.K., Europe and other jurisdictions in which we operate. Such regulation continues to become increasingly extensive and complex. In addition, regulatory scrutiny and expectations in Canada, the U.S., the U.K., Europe and other jurisdictions for large financial institutions with respect to, among other things, governance, risk management practices and controls, and conduct, as well as the enforcement of regulatory compliance matters, has intensified. Failure to comply with these regulatory requirements and expectations or to resolve any identified deficiencies could result in increased regulatory oversight and restrictions. Resolution of such matters can also result in the payment of substantial penalties, agreements with respect to future operation of our business, actions with respect to relevant personnel, admission of wrongdoing, and guilty pleas with respect to criminal charges, which in turn prohibit us from conducting certain types of business absent regulatory relief, receipt of which cannot be assured.

Operating in this increasingly complex regulatory environment and intense regulatory enforcement environment, we are and have been subject to a variety of legal proceedings, including civil claims and lawsuits, criminal charges, regulatory scrutiny, examinations and proceedings, investigations, audits and requests for information by various governmental regulatory agencies and law enforcement authorities in various jurisdictions, and we anticipate that our ongoing business activities will give rise to such matters in the future. The global scope of our operations also means that a single issue may give rise to overlapping regulatory investigations, regulatory proceedings and or civil litigation claims in different jurisdictions. RBC can be subject to such proceedings due to alleged violations of law or, if determined by regulators, allegedly inadequate policies, procedures, controls or remediation of deficiencies. Changes to laws, including tax laws, regulations or regulatory policies, as well as the changes in how they are interpreted, implemented or enforced, could adversely affect us, for example, by lowering barriers to entry in the businesses in which we operate, increasing our costs of compliance, or limiting our activities and ability to execute our strategic plans. In addition, the severity of the remedies sought in legal and regulatory proceedings to which RBC is subject have increased. Further, there is no assurance that we always will be, or be deemed to be, in compliance with laws, regulations or regulatory policies or expectations. Accordingly, it is possible that we could receive a judicial or regulatory enforcement judgment or decision that results in significant fines, damages, penalties, and other costs or injunctions, criminal convictions, or loss of licenses or registrations that would damage our reputation, and negatively impact our earnings and ability to conduct some of our businesses. We are also subject to litigation arising in the ordinary course of our business and the adverse resolution of any litigation could have a significant adverse effect on our results or could give rise to significant reputational damage, which in turn could impact our future business prospects.

Our Regulatory Compliance Management Framework outlines how we manage and mitigate the regulatory compliance risks associated with failing to comply with, or adapt to, current and changing laws and regulations in the jurisdictions in which we operate.

Regulatory compliance risk includes the regulatory risks associated with financial crimes (which include, but are not limited to, money laundering, terrorist financing, bribery, corruption, and violations of economic sanctions), privacy, market conduct, consumer protection and business conduct, as well as prudential and other generally applicable non-financial requirements. Specific compliance policies, procedures and supporting frameworks have been developed to seek to manage regulatory compliance risk.

# Strategic risk

Strategic risk is the risk to earnings, capital or liquidity arising from adverse or suboptimal strategic business decisions, improper implementation or execution of strategic initiatives, or inadequate responses to changes in the external operating environment by the bank or a particular business unit. To help protect us from unacceptable losses or undesirable outcomes, risk appetite is integrated into our strategic, financial and capital planning processes. Risk appetite enables discussions as part of strategic decision making and is a key consideration for RBC's planning cycle.

Responsibility for selecting and successfully implementing business strategies is mandated to the individual heads of each business segment. Oversight of strategic risk is the responsibility of the heads of the business segments and their operating committees, the Enterprise Strategy & Transformation group, the GE and the Board. The Enterprise Strategy & Transformation group supports the management of strategic risk through the strategic planning process, articulated within our Enterprise Strategic Planning Policy, ensuring alignment across our business, financial, capital and risk planning.

Our annual business portfolio review and project approval request processes help to identify and mitigate strategic risk by seeking to ensure that strategies for new initiatives, lines of business, and the enterprise as a whole align with our risk appetite and risk posture. GRM provides oversight of strategic risk by providing independent reviews of these processes, establishing enterprise risk frameworks, and independently monitoring and reporting on the level of risk established against our risk appetite metrics in accordance with the three lines of defence governance model.

For details on the key strategic priorities for our business segments, refer to the Business segment results section.

## Reputation risk

Reputation risk is the risk of an adverse impact on stakeholders' perception of RBC due to i) perceived or actual misalignment between stakeholder perceptions of RBC and the actions or inactions of the bank, its employees or individuals or groups affiliated with RBC (e.g. stakeholder perceptions of our role as a good corporate citizen), ii) negative or shifting public sentiment on existing, evolving or emerging industry or global issues, or iii) negative outcomes relating to any risk inherent to the financial services industry, including ineffective management of these risks, or situations beyond our control such as external events or systemic risks. A strong and trustworthy reputation will generally strengthen our market position, reduce the cost of capital, increase shareholder value, attract and retain top talent and help us weather a crisis. Conversely, damage to our reputation can result in reduced share price and market capitalization, loss of strategic flexibility, inability to enter or expand into markets, loss of client loyalty and business, or regulatory fines and penalties. The sources of reputation risk are widespread. Reputation risk is a transverse risk which can manifest as an outcome of other risk types including but not limited to credit, regulatory, legal, operational, and environmental and social risks. We can also experience reputation risk from a failure to maintain an effective control environment, exhibit good conduct and maintain appropriate cultural practices.

Managing our reputation risk is an integral part of our organizational culture and our overall enterprise risk management approach, as well as a priority for employees and our Board. Our Board-approved Enterprise Reputation Risk Management Framework provides an overview of our approach to identify, assess, manage, monitor and report on reputation risk. This framework outlines governance authorities, roles and responsibilities, and controls and mechanisms to manage our reputation risk, including our culture of integrity, compliance with our Code of Conduct and operating within our risk appetite.

Our governance of reputation risk aims to be holistic and provides an integrated view of potential reputation issues across the organization. This governance structure is designed to ensure that ownership and accountability for reputation risk are understood across the enterprise, both proactive and reactive reputation risk decisions are escalated to senior management for review and evaluation, and reporting on reputation risk is comprehensive and integrated.

#### Overview of other risks

In addition to the risks described in the risk sections, there are other risk factors, described below, which may affect our businesses and financial results. The following discussion is not exhaustive as other factors could also adversely affect our results.

## Legal and regulatory environment risk

Legal and regulatory environment risk is the risk that new or modified laws and regulations, and the interpretation or application of laws and regulations, will negatively impact the way in which we operate, both in Canada and in the other jurisdictions in which we conduct business. The full impact of some of these changes on our business will not be known until final rules are implemented and market practices have developed in response. We continue to respond to these and other developments and are working to minimize any potential adverse business or economic impact. The following provides a high-level summary of some of the key regulatory changes that have potential to increase or decrease our costs, impact our profitability and increase the complexity of our operations.

#### Global uncertainty

In October 2024, the International Monetary Fund (IMF) projected global growth of 3.2% for calendar 2024, unchanged from its July forecast. The IMF projected global growth for calendar 2025 is also projected to be 3.2%. Amidst global disinflation, significant uncertainty continues to pose risks to the global economic outlook, driven by: challenges in monetary policy normalization, including persistent inflation in the services sector offsetting disinflation in other sectors; potential financial market instability or faster-than-anticipated deceleration in growth resulting from the persistence of inflation and elevated interest rates, along with their associated impact on consumer and business confidence; potential restrictive fiscal policies in response to high government debt; deepening economic concerns in China, particularly in the real estate sector, that could have an impact on global growth; growing geopolitical tensions, such as those between Russia and Ukraine, the conflict in the Middle East, and those between China and Taiwan and the West; the recent U.S. election, which could result in changes in economic, trade and foreign policy; escalating trade tensions and increased social unrest; extreme weather-related events; and cyclical imbalances in the global economy. Our diversified business model, as well as our product and geographic diversification, continue to help mitigate the risks posed by global uncertainty.

## Environment and social-related legal and regulatory activity

Applicable environmental and social-related laws, regulations, frameworks, and guidance continue to rapidly evolve. As such, new or heightened requirements could result in increased regulatory, compliance or other costs or higher capital requirements, and may subject us to different and potentially conflicting requirements in the various jurisdictions in which we operate. We continue to monitor the development of applicable laws and regulations in this area, including but not limited to the evolution of sustainability disclosure requirements, sustainability due diligence requirements, and climate risk management requirements for financial institutions.

In Canada, OSFI released its final Guideline B-15 – Climate Risk Management on March 7, 2023, which sets out expectations for the management and disclosure of climate-related risks for federally regulated financial institutions (FRFIs) and aims to support FRFIs in developing greater resilience to, and management of, these risks. On March 20, 2024, OSFI released an updated guideline that includes additional climate-related disclosure requirements aligned with IFRS S2 Climate-related Disclosures issued by the International Sustainability Standards Board (ISSB), and will be effective in at least three phases, beginning for fiscal 2024, with annual disclosures required to be made publicly available no later than 180 days after fiscal year-end. Additional disclosure expectations will be effective for fiscal 2025, with the effective date for a further phase of expectations still to be determined by OSFI. OSFI intends to review and amend the guideline as practices and standards evolve, and we continue to monitor any further developments in this area. We have assessed the fiscal 2024 expectations and do not anticipate any issues meeting the first phase of expectations by the effective date. We are currently assessing the impact of the later phases of the guideline and have initiated work to meet the requirements by the effective dates.

In the U.S., the SEC issued climate-related disclosure rules on March 6, 2024, which exempt many Canadian registrants including us. The SEC has since stayed the rules pending judicial review of legal challenges of the rules. We continue to monitor developments in this area. In addition, various states in the U.S. have enacted or proposed statutes or regulations addressing environmental and/or social matters, including climate disclosure laws and laws that address the consideration of environmental and/or social factors in state investments or contracting or in financial institutions' provision of services. As environmental and social issues become more politicized, statutes or regulations in certain states may be interpreted to prohibit governmental entities, such as public pension funds and issuers of municipal bonds, from doing business with certain financial institutions, and political pressure may be placed upon governmental entities to not do business with certain financial institutions, based on the financial institutions' perceived positions on certain environmental and/or social matters. We continue to monitor developments in this area and assess their impacts on our businesses.

Internationally, the ISSB issued its inaugural standards on June 26, 2023, being IFRS S1 General Requirements for Disclosures of Sustainability-related Financial Information and IFRS S2 Climate-related Disclosures (collectively, the ISSB Standards). IFRS S1 sets out general reporting requirements for disclosing sustainability-related financial information. IFRS S2 requires an entity to disclose information about climate-related risks and opportunities and the impact on an entity's financial position, performance, cash flows, strategy and business model. The applicability of the standards and the effective date for Canadian reporting issuers is subject to adoption by Canadian regulators, and we continue to monitor developments, including from the Canadian Securities Administrators.

In addition, the European Union's Corporate Sustainability Reporting Directive (CSRD) requires reporting under the European Sustainability Reporting Standards (ESRS). The ESRS, which were adopted by the European Commission on July 31, 2023, set out the requirements for companies to report on sustainability-related impacts, opportunities and risks. We anticipate that we will be subject to reporting obligations under the CSRD from fiscal 2029 at the consolidated level, and are currently assessing the impact of these requirements.

We continue to monitor the development of applicable anti-greenwashing laws and regulations as well as climate-related litigation and regulatory enforcement actions related to greenwashing, including certain recent amendments to the Competition Act (Canada) which came into force on June 20, 2024, and which introduced new and uncertain substantiation standards for environmental claims. These provisions are in addition to the pre-existing provisions of the Competition Act (Canada) that prohibit the making of claims that are materially false or misleading. We continue to assess the impacts of these laws, regulations and actions on our litigation and regulatory compliance risks. "Greenwashing" generally refers to the practice of conveying false or misleading information about an organization's products or services or operations to suggest that the organization is doing more to protect the environment than it is.

## Interest Rate Benchmark Reform

As part of the interest rate benchmark reform, the publication of all remaining Canadian Dollar Offered Rate (CDOR) settings ceased on June 28, 2024. Relatedly, we have ceased Bankers' Acceptance-based lending. As at October 31, 2024, and consistent with our transition plan, our exposure to financial instruments referencing CDOR and interest rates substantially similar to CDOR is no longer material to our Consolidated Financial Statements.

# Government of Canada 2023 and 2024 budgets

The Fall Economic Statement Implementation Act, 2023 (the FESIA), introduced as Bill C-59 and tabled by the Government of Canada, received Royal Assent and was enacted on June 20, 2024. The FESIA implements a variety of tax measures including: subject to certain exceptions, eliminating availability of the dividend received deduction in respect of dividends received by financial institutions after December 31, 2023 on shares of corporations resident in Canada, where such shares are mark-to-market property or tracking property for tax purposes; and a new 2% tax applicable to certain publicly listed corporations on net share buybacks in excess of \$1 million occurring on or after January 1, 2024. The 2024 impact from the enactment of the legislation was not material.

The Budget Implementation Act, 2024, No. 1 (the BIA), introduced as Bill C-69 and tabled by the Government of Canada, received Royal Assent and was enacted on June 20, 2024. The BIA included the Global Minimum Tax Act (the GMTA) which implemented into Canadian law certain measures relating to the Organisation for Economic Co-operation and Development's two-pillar plan to combat tax base erosion and profit shifting, including a 15% global minimum corporate tax on certain multinational enterprises (Pillar Two). A number of other countries in which RBC operates have also enacted Pillar Two legislation. The GMTA and corresponding foreign Pillar Two legislation will be effective for our fiscal year beginning November 1, 2024. Had Pillar Two legislation in all relevant jurisdictions applied to the fiscal year ended October 31, 2024, RBC's effective tax rate would have increased by an estimated 1% to 2%. For further details, refer to Note 21 of our 2024 Annual Consolidated Financial Statements.

For further details on regulatory capital and related requirements, refer to the risk and Capital management sections of this 2024 Annual Report.

# Competitive risk

Competitive risk is the risk of an inability to build or maintain a sustainable competitive advantage in a given market or markets and includes the potential for loss of market share due to competitors offering superior products and services. Competitive risk can arise from within or outside the financial sector, from traditional or non-traditional competitors, domestically or globally. There is intense competition for clients among financial services companies. Client loyalty and retention can be influenced by several factors, including new technology used or services offered by our competitors, relative service levels and prices, product and service attributes, reputation, actions taken by our competitors, and adherence with competition and anti-trust laws. Other companies, such as insurance companies and non-financial companies, as well as new technological applications, are increasingly offering services traditionally provided by banks. This competition could also reduce our revenue which could adversely affect our results.

We identify and assess competitive risks as part of our overall risk management process. Our products and services are regularly benchmarked against existing and potential competitors. In addition, we regularly conduct risk reviews of our products, services, mergers and acquisitions strategy, and we seek to ensure adherence to competition and anti-trust laws. Our annual strategy-setting process also plays an integral role in managing competitive risk.

## Systemic risk

Systemic risk is considered a macroeconomic driver because it can significantly impact the stability of the financial system and the broader economy. Systemic risk is the risk that the financial system as a whole, or a major part of it – either in an individual country, a region or globally – is put in real and immediate danger of collapse or serious damage due to an unforeseen event causing a substantive shock to the financial system with the likelihood of material damage to the economy, and which would result in financial, reputation, legal or other risks for us.

Systemic risk can lead to increased vulnerabilities as experienced during the 2008 global financial crisis and the COVID-19 pandemic. In 2023, U.S. regional bank failures highlighted the potential vulnerability of the financial system to systemic risks, particularly given tightening financial regulations and technology-driven increases in transaction velocity. Our ability to mitigate systemic risk when undertaking business activities is limited, other than through collaborative mechanisms between key industry participants, and, as appropriate, the public sector and regulators to reduce the frequency and impact of these risks. The two most significant measures in mitigating the impact of systemic risk are diversification and stress testing.

Our diversified business model, portfolios, products, activities and funding sources help mitigate the potential impacts from systemic risk. Our established risk limits also seek to ensure our portfolio is diversified, and concentration risk is reduced and remains within our risk appetite.

Stress testing involves consideration of the simultaneous movements in several risk factors. Stress testing seeks to ensure our business strategies and capital planning are robust by measuring the potential impacts of credit, market, liquidity and operational risks, under adverse economic conditions. Our enterprise-wide stress testing program evaluates the potential effects of a set of specified changes in risk factors, corresponding to exceptional but plausible adverse economic and financial market events. These stress scenarios are evaluated across the organization, and results are integrated to develop an enterprise-wide view of the impacts on our financial results and capital requirements. For further details on our stress testing, refer to the Enterprise risk management section.

Our financial results are affected by the business and economic conditions in the geographic regions in which we operate. These conditions include consumer saving and spending habits as well as consumer borrowing and repayment patterns, business investment, government spending, exchange rates, sovereign debt risks, the level of activity and volatility of the capital markets, strength of the economy and inflation. Given the importance of our Canadian and U.S. operations, an economic downturn may largely affect our personal and business lending activities and may result in higher provisions for credit losses. Deterioration and uncertainty in global capital markets could result in continued high volatility that would impact results in Capital Markets. In Wealth Management, weaker market conditions could lead to lower average fee-based client assets and transaction volumes. In addition, worsening financial and credit market conditions may adversely affect our ability to access capital markets on favourable terms and could negatively affect our liquidity, resulting in increased funding costs and lower transaction volumes in Capital Markets and Wealth Management.

## Government fiscal, monetary and other policies

Our financial results are also sensitive to changes in interest rates. Although major central banks in Canada, the U.S., the EU and the U.K. started cutting interest rates in 2024, interest rates remain elevated and changes may impact the economy with a lagged effect. While higher interest rates may be a potential benefit to our NIM, elevated interest rates generally result in higher funding costs and may adversely impact household balance sheets by causing credit deterioration, hence negatively impacting our financial results. Conversely, lower interest rates generally lead to spread compression across many of our businesses, resulting in an unfavourable impact on NIM. If elevated interest rates are coupled with persistent inflation, this could increase market volatility, reduce asset values, and adversely impact household and corporate balance sheets. This could lead to credit deterioration and impact our financial results, particularly in our Personal Banking, Commercial Banking, Wealth Management and Capital Markets businesses. If central banks move forward with a well-timed cycle of gradual interest rate decreases, this can promote economic stimulation and drive higher volumes for our businesses.

Our businesses and earnings are affected by monetary policies that are adopted by the BoC, the Fed in the U.S., the ECB in the European Union (EU), the BoE in the U.K. and monetary authorities in other jurisdictions in which we operate. In addition, our businesses and earnings may be affected by the fiscal policies of the governments of Canada, the U.S., the U.K., Europe and such other jurisdictions, which may include protectionist trade policies and the imposition of tariffs. Such policies can have positive or adverse affects on our clients and counterparties in Canada, the U.S. and internationally, which may decrease or increase the risk of default by such clients and counterparties.

# Tax risk and transparency

Tax risk refers to the risk of loss related to unexpected tax liabilities. The tax laws and systems that are applicable to us are complex and wide-ranging. As a result, we seek to ensure that any decisions or actions related to tax always reflect our assessment of the long-term costs and risks involved, including their impact on our reputation and our relationship with clients, shareholders and regulators.

Our approach to taxation is grounded in principles which are reflected in our Code of Conduct, is governed by our Enterprise Tax Risk Management Policy, and incorporates the fundamentals of our risk drivers. Oversight of our tax policy and the management of tax risk is the responsibility of the GE, the CFO and the Senior Vice President, Taxation. We discuss our tax strategy with the Audit Committee annually and provide updates on our tax position on a regular basis.

Our tax strategy is designed to provide transparency and support our business strategy, and is aligned with our corporate vision and values. We seek to maximize shareholder value by structuring our businesses in a tax-efficient manner while considering reputation risk by being in compliance with all laws and regulations. Our policy requires that we:

- Act with integrity and in a straightforward, open and honest manner in all tax matters;
- Ensure tax strategy is aligned with our business strategy supporting only bona fide transactions with a business purpose and economic substance;
- Ensure all intercompany transactions are conducted in accordance with applicable transfer pricing requirements;
- · Ensure our full compliance and full disclosure to tax authorities of our statutory obligations; and
- Endeavour to work with the tax authorities to build positive long-term relationships and where disputes occur, address them constructively.

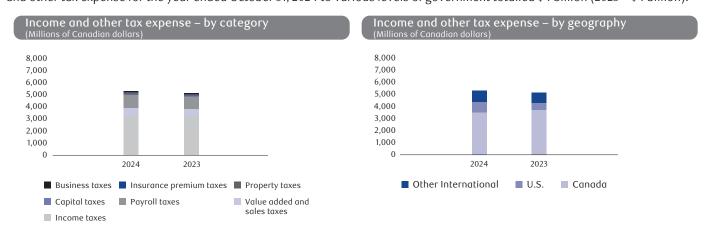
With respect to assessing the needs of our clients, we consider a number of factors including the purpose of the transactions. We seek to ensure that we only support bona fide client transactions with a business purpose and economic substance. Should we become aware of client transactions that are aimed at evading their tax obligations, we will not proceed with the transactions.

We operate in 29 countries worldwide. Our activities in these countries are subject to both Canadian and international tax legislation and other regulations, and are fully disclosed to the relevant tax authorities. The Taxation group and GRM both regularly review the activities of all entities in an effort to ensure compliance with tax requirements and other regulations.

Given that we operate globally, complex tax legislation and accounting principles have resulted in differing legal interpretations between the respective tax authorities we deal with and ourselves, and we are at risk of tax authorities disagreeing with prior positions we have taken for tax purposes. When this occurs, we are committed to an open and transparent dialogue with the tax authorities to facilitate a quick assessment and prompt resolution of the issues where possible. Failure to adequately manage tax risk and resolve issues with tax authorities in a satisfactory manner could adversely impact our results, potentially to a material extent in a particular period, and/or significantly impact our reputation.

#### Tax contribution

In 2024, total income and other tax expense, including income taxes in the Consolidated Statements of Comprehensive Income and Changes in Equity, to various levels of governments globally totalled \$5 billion (2023 – \$5 billion). In Canada, total income and other tax expense for the year ended October 31, 2024 to various levels of government totalled \$4 billion (2023 – \$4 billion).



For further details on income and other tax expense, refer to the Financial performance section.

# Environmental and social risk

Environmental and social (E&S) risk is the potential for an E&S issue associated with us, a client, transaction, product, supplier or activity, to have a negative impact on us, including our financial position, operations, legal and regulatory compliance, or reputation. It refers to the risk that we face as a result of the manner in which we, a supplier or a client manages E&S issues or relationships with stakeholders and communities. Because different stakeholders and communities may have divergent views on E&S issues, any actual or perceived action or inaction by us in the management of an E&S issue may be perceived negatively by at least some stakeholders and, as a result, may increase our E&S risks.

E&S issues include, but are not limited to, climate change, site contamination, waste management, land and resource use, biodiversity, water quality and availability, environmental regulation, human rights (including, but not limited to social and racial inequality and Indigenous Peoples' rights), diversity and inclusion, and community engagement.

E&S risks are unique and transverse in nature and may impact our principal risks in different ways and to varying degrees, including but not limited to strategic, operational, credit, reputation, and compliance risks. See the Climate risk section below for additional information specific to climate risk.

## Governance

The Board oversees our enterprise approach to and management of E&S risks and how we conduct our business to meet high standards of E&S responsibility. The Board also approves any updates to our enterprise climate strategy which sets out our strategic priorities, commitments and actions. Committees of the Board have oversight of E&S risks that are specific to their respective responsibilities, with the Governance Committee playing a specific oversight and coordination role over ESG matters, including over certain of our ESG-related disclosures. For further details on risk governance, refer to the Enterprise risk management – Risk governance section.

Roles and responsibilities related to E&S risk management are governed by the Enterprise Risk Management Framework and the three lines of defence governance model. Business segments and functional areas are responsible for incorporating E&S risk management requirements within their own operations, while GRM is responsible for defining E&S risk management requirements, including establishing policies, and performing effective oversight in relation to E&S risk.

#### Risk management

We seek to integrate E&S risk considerations into our risk management approach. We manage E&S risk by leveraging existing policies and processes which govern our principal risks. Our Enterprise Policy on Environmental and Social Risk (E&S Risk Policy)<sup>1</sup> supports these policies and processes by outlining our principles for E&S risk management and setting out standards for how É&S risks arising from our activities are identified, assessed, measured, managed, mitigated, monitored and reported.

As a signatory to the Equator Principles (EP) framework, we also have a procedure that outlines our governance for managing E&S risks related to certain project finance-related transactions. We also have policy guidelines<sup>2</sup> in place for sensitive sectors and activities, which address our financing activities to clients and projects operating in the coal-fired power generation and coal mining sectors, the Arctic ecosystem, the Arctic National Wildlife Refuge, and United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Sites.

We continue to evolve our approach to E&S risk by leveraging existing risk management capabilities, and building new capabilities where required, including for purposes of incorporating regulatory guidance, industry best practices and improved data analytics to identify, assess, measure, manage, monitor and report on potential E&S impacts on clients, portfolios, and our operations. We recognize that the integration and maturity of our E&S risk management capabilities will continue to evolve, and that achieving a mature level of E&S risk management will be iterative and take time.

#### Climate risk

Climate risk is the risk related to the global transition to a net-zero economy (transition risk) and the physical impacts of climate change (physical risk), which includes both chronic (longer-term) risks (e.g., rising sea levels and increases in average temperatures) and acute (event driven) risks (e.g., wildfires and floods). Both we and our clients may be exposed to climaterelated transition risk, including through emerging regulatory and legal requirements, changing business and consumer sentiment towards products and services, technological developments, and changes in stakeholder expectations. Additionally, we and our clients may be vulnerable to climate-related physical risk through disruptions to operations and services.

We continue to make progress in our climate risk management capabilities by integrating climate risk considerations in our risk management processes. We are taking steps to leverage scenario analysis as a tool to provide forward-looking assessments of climate risks and opportunities impacting our business model and strategy. In an effort to ensure that the bank is adequately capitalized against unexpected events resulting from climate change, we integrate select climate risk scenario considerations, which includes physical and transition climate related risk, into our existing Enterprise-Wide Stress Testing program to measure its impact across various portfolios and risk types (e.g., credit risk and operational risk). We continue to advance our understanding of how climate risks can be included in scenario analysis in the future in line with the evolving strategic and regulatory importance of climate scenario analysis.

Our continued development of our climate risk measurement capabilities is expected to inform the enhancements to our climate risk management practices and advance the integration of climate risks into our policies and procedures.

#### Human rights and codes of conduct

Our approach to identifying, assessing, managing and mitigating social issues such as human rights issues, is set out in our E&S Risk Policy, and is supported by additional policies and position statements that reflect our approach to managing our businesses in a responsible manner.

RBC is committed to respecting human rights, including those of any clients, employees, third parties we conduct business with or who may be affected by our business activities – either directly or indirectly – and to taking the actions set out in RBC's Human Rights Position Statement (Statement) to meet the responsibility of businesses like ours to respect human rights as set out in the United Nations Guiding Principles on Business and Human Rights. Our Statement is adopted at the highest levels of our organization and is published on our website.

Our Statement Regarding Modern Slavery is published annually and sets out the steps we take to prevent and reduce the risk that modern slavery is used in our business and in our supply chains.

Our Code of Conduct establishes standards of desired behaviour that apply to all directors, employees, and contract workers of the bank and its subsidiaries. In addition, our principles-based Supplier Code of Conduct articulates our expectations with respect to a supplier's business integrity, responsible business practices and responsible treatment of individuals and the environment.

The E&S Risk Policy is not inclusive of the activities of, and assets under management by, RBC Global Asset Management (RBC GAM). RBC GAM has developed its own policy with respect to these matters. RBC GAM includes, but is not limited to, the following wholly owned indirect subsidiaries of the Bank: RBC Global Asset Management Inc. (including Phillips, Hager & North Investment Management), RBC Global Asset Management (U.S.) Inc., RBC Global Asset Management (UK) Limited, RBC Global Asset Management (Asia) Limited and BlueBay Asset Management LLP.

See RBC's Policy Guidelines for Sensitive Sectors and Activities which address our lending activities.

#### Framework and commitments

We are a participant or signatory to various industry principles and initiatives that are designed to help mitigate E&S risk within our business activities or advance responsible business practices, including but not limited to the following:

- RBC is a member of the Net-Zero Banking Alliance (NZBA), which is a global industry-led initiative to accelerate and support efforts to address climate change by aligning member banks' lending and investment portfolios with net-zero emissions by 20503. As a member of the NZBA, we made a commitment to setting and disclosing interim emissions reduction targets for key high-emitting sectors to which we lend. In October 2022, we published our initial interim emission reduction targets in our lending activities for the oil and gas, power generation and automotive sectors<sup>3</sup>.
- RBC is a member of the Partnership for Carbon Accounting Financials (PCAF), which is an industry-led partnership to
  facilitate transparency and enable financial institutions to assess and disclose greenhouse gas emissions of loans and
  investments.
- RBC is a signatory to the Equator Principles (EP), which is a benchmark for determining, assessing and managing E&S risks for project finance. We report annually on projects assessed according to the EP framework.
- RBC GAM and Brewin Dolphin Holding's Limited are signatories to the United Nations Principles for Responsible Investment (UN PRI) and report on their responsible investment activities to the UN PRI.

We may be exposed to legal, regulatory or reputation risk for participating in these frameworks, making these or other E&S-related commitments or not fully implementing these frameworks or meeting these or other E&S-related commitments, goals or targets, either as a result of our own actions or due to external factors, which could cause our actual results to differ materially from our expectations expressed in such commitments, goals and targets. More specifically, our ability to achieve our E&S-related commitments, goals and targets, including those discussed above, will depend on the collective efforts and actions across a wide range of stakeholders outside of our control, and there can be no assurance that they will be achieved<sup>4</sup>. In addition, our E&S-related commitments, goals and targets are aspirational and may need to be changed or recalibrated as data improves and as climate science, transition pathways and market practices regarding standards, methodologies, metrics and measurements evolve, which may result in us withdrawing from or modifying our membership in certain frameworks, principles and initiatives. Finally, RBC provides financing to support the growth of low-carbon energy, while also providing financing to meet current energy needs, including traditional sources of energy such as oil and gas. RBC is focused on playing our role in helping our clients in the transition to a net-zero economy, including supporting clients in high-emitting, hard-to-abate sectors in their efforts to decarbonize.

#### Legal and regulatory developments

Applicable environmental and social-related laws, regulations, frameworks, and guidance continue to rapidly evolve. As such, new or heightened requirements could result in increased regulatory, compliance or other costs or higher capital requirements, and may subject us to different and potentially conflicting requirements in the various jurisdictions in which we operate. As regulatory requirements evolve, we will continue to monitor such developments and update our risk management practices and disclosures as necessary. See the Legal and regulatory environment risk section for further details.

Our NZBA commitments to achieving net-zero emissions in our lending by 2050 and to our initial 2030 interim emissions reduction targets for lending in three key sectors (oil and gas, power generation and automotive) are not inclusive of the activities of, and the assets under management by, RBC GAM and RBC Wealth Management (RBC WM). RBC WM includes, but is not limited to, the following affiliates: (a) RBC Dominion Securities Inc. (Member–Canadian Investor Protection Fund), RBC Direct Investing Inc. (Member–Canadian Investor Protection Fund), Royal Mutual Funds Inc., RBC Wealth Management Financial Services Inc., Royal Trust Corporation of Canada and The Royal Trust Company, which are separate but affiliated subsidiaries of us; and (b) Brewin Dolphin Holdings PLC and its subsidiaries.

External factors that could cause our actual results to differ materially from our expectations expressed in such commitments, goals and targets include the need for more and better climate data and standardization of climate-related measurement methodologies, our ability to gather and verify data, our ability to successfully implement various initiatives throughout our enterprise under expected time frames, the risk that eligible transactions or related initiatives will not be completed within any specified period or at all or with the results or outcome as originally expected or anticipated by us, our ability to track transactions and report on them in connection with our performance against our E&S-related commitments, the compliance of various third parties with our policies and procedures and their commitment to us, the need for active and continuing participation and action of various stakeholders, technological advancements, the evolution of consumer behaviour, varying decarbonization efforts across economies, the need for thoughtful climate policies around the world, the challenges of balancing emission reduction targets with an orderly, just and inclusive transition and geopolitical factors that impact global energy needs, the legal and regulatory environment, and regulatory compliance considerations. Our E&S-related commitments, goals and targets are aspirational and may need to be changed or recalibrated as data improve and as climate science, transition pathways and market practices regarding standards, methodologies, metrics and measurements evolve.

#### Capital management

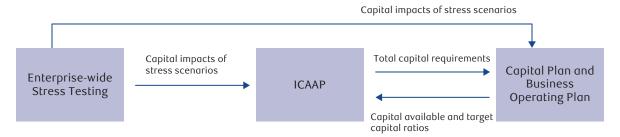
We actively manage our capital to maintain strong capital ratios and high ratings while providing strong returns to our shareholders. In addition to the regulatory requirements, we consider the expectations of credit rating agencies, depositors and shareholders, as well as our business plans, stress tests, peer comparisons and our internal capital ratio targets. Our goal is to optimize our capital usage and structure, and to provide support for our business segments and clients. We also aim to generate optimal returns for our shareholders, while protecting depositors and creditors.

#### Capital management framework

Our capital management framework establishes policies and processes for defining, measuring, raising and investing all forms of capital in a coordinated and consistent manner. It sets our overall approach to capital management, including guiding principles and roles and responsibilities relating to capital adequacy and transactions, dividends, solo capital, and management of RWA, leverage ratio exposures, TLAC capital and TLAC leverage ratios. We manage and monitor capital from several perspectives, including regulatory capital, solo capital and TLAC.

Our capital planning process is dynamic and involves various teams including Finance, Corporate Treasury, GRM, Economics and our businesses, and covers internal capital ratio targets, potential capital transactions as well as projected dividend payouts and share repurchases. This process considers our business operating plans, enterprise-wide stress testing and ICAAP, regulatory capital changes and supervisory requirements, accounting changes, internal capital requirements, rating agency metrics and solo capital.

Our capital plan is established on an annual basis and is aligned with the management actions included in the annual business operating plan, which includes forecast growth in assets and earnings taking into account our business strategies, the projected market and economic environment, and peer positioning. This includes incorporating potential capital transactions based on our projected internal capital generation, business forecasts, market conditions and other developments, such as accounting and regulatory changes that may impact capital requirements. All of the components in the capital plan are monitored throughout the year and are revised as deemed appropriate.



Our enterprise-wide stress testing and annual ICAAP processes provide key inputs for capital planning, including setting internal capital ratio targets. The stress scenarios are evaluated across the organization, and results are integrated to develop an enterprise-wide view of financial impacts and capital requirements, which in turn facilitate the planning of mitigating actions to absorb adverse events. ICAAP assesses capital adequacy and requirements covering all material risks, with a cushion for plausible contingencies. In accordance with OSFI guidelines, major components of our ICAAP process include comprehensive risk assessment, stress testing, capital assessment and planning, Board and senior management oversight, monitoring and reporting and internal control review.

Our internal capital targets are established to maintain robust capital positions in excess of OSFI's Basel III regulatory targets. The results of our enterprise-wide stress testing and ICAAP processes are incorporated into the OSFI Capital Buffers, Domestic Systemically Important Banks (D-SIB)/Globally Systemically Important Banks (G-SIB) surcharge, and Domestic Stability Buffer (DSB), with a view to ensure that the bank has adequate capital to underpin risks and absorb losses under all plausible stress scenarios given our risk profile and appetite. In addition, we include a discretionary cushion on top of OSFI's regulatory targets to reflect our risk appetite, our forecasts of potential negative downturns and to maintain our capital strength for forthcoming regulatory and accounting changes, peer comparatives, rating agencies sensitivities, future acquisitions and solo capital level.

The Board is responsible for the ultimate oversight of capital management, including the annual review and approval of the capital plan. ALCO and GE share responsibility for capital management and receive regular reports detailing our compliance with approved limits and guidelines. The Audit and Risk Committees jointly approve the ICAAP process.

#### Basel III

Our consolidated regulatory capital requirements are determined by OSFI's Capital Adequacy Requirements (CAR) guidelines, which are based on the minimum Basel III capital ratio requirements adopted by the BCBS.

Under Basel III, banks select from two main approaches, the Standardized Ápproach (SA) or the IRB Approach, to calculate their minimum regulatory capital required to support credit, market and operational risks. We apply the IRB approach to credit risk to determine minimum regulatory capital requirements for the majority of our portfolios, including most of the exposures acquired from the HSBC Canada transaction. Certain credit risk portfolios are subject to SA, primarily in Wealth Management including our City National wholesale portfolio, our Caribbean Banking operations and certain non-mortgage retail portfolios acquired through the HSBC Canada transaction. For consolidated regulatory reporting of market risk capital and operational risk capital, we use the revised SA based on OSFI rules as further noted below.

All federally regulated banks with a Basel III leverage ratio total exposure exceeding €200 billion at their financial year-end are required, at a minimum, to publicly disclose in the first quarter following their year-end, the thirteen indicators used in the annual G-SIB assessment methodology, with the goal of enhancing the transparency of the relative scale of banks' potential global systemic importance and data quality. The FSB publishes an updated list of G-SIBs annually. On November 26, 2024, we were re-designated as a G-SIB by the FSB. This designation requires us to maintain a higher loss absorbency requirement (common equity as a percentage of RWA) of 1% consistent with the D-SIB requirement. In addition to the Basel III targets, OSFI established a Domestic Stability Buffer (DSB) applicable to all Canadian D-SIBs to further ensure the financial stability of the Canadian financial system. The current OSFI requirement for the DSB is set at 3.5% of total RWA as reaffirmed by OSFI on June 18, 2024.

Under OSFI's TLAC guideline, D-SIBs are required to maintain a risk-based TLAC ratio, which builds on the risk-based capital ratios described in the CAR guideline, and a TLAC leverage ratio, which builds on the leverage ratio described in OSFI's LR guideline. The TLAC requirement is intended to address the sufficiency of a D-SIB'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 external 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 TLAC guideline.

In Q2 2023, we implemented OSFI's first phase of the adoption of the final BCBS Basel III reforms consisting of revised capital, leverage and disclosure guidelines. The second phase of OSFI's implementation of the final BCBS Basel III reforms relating to the revised credit valuation adjustment (CVA) and market risk chapters of the CAR guideline came into effect in Q1 2024. The adoption of the revised CVA and market risk rules reflects adoption of a revised SA framework for CVA and a revised SA for market risk, as well as the discontinuation of our existing internal models-based approach used for market risk RWA determination. The revised Pillar 3 disclosure requirements effective upon adoption of these revised rules were reflected in our Q1 2024 standalone Pillar 3 Report with further additional updated disclosure requirements reflected in our Q4 2024 Pillar 3 Report. In addition, as prescribed by the CAR guidelines, effective Q1 2024 our regulatory capital floor transitioned to a new regulatory capital floor of 67.5% of RWA for fiscal 2024 from 65% of RWA in fiscal 2023. On July 5, 2024, OSFI announced a one-year delay to the increase in the capital floor factor, maintaining the current 67.5% of RWA (as calculated using only SA for credit, market and operational risk) factor throughout 2024 and 2025, and delaying the 70% factor implementation from 2025 to 2026, and the 72.5% factor implementation from 2026 to 2027.

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, leverage and TLAC requirements imposed by OSFI:

Basel III – OSFI regul	latory targe	ets						Table 64
Basel III		OSFI r for	egulatory ta large banks	rget requiremer under Basel III	nts	Domestic	Minimum including Capital Buffers, D-SIB/G-SIB	RBC capital, leverage and TLAC
capital, leverage and TLAC ratios	Minimum	Capital Buffers	Minimum including Capital Buffers	D-SIB/G-SIB surcharge (1)	Minimum including Capital Buffers and D-SIB/G-SIB surcharge (1), (2)	Stability Buffer (3)	surcharge and Domestic Stability Buffer as at October 31, 2024 (4)	ratios as at October 31, 2024
Common Equity Tier 1	4.5%	2.6%	7.1%	1.0%	8.1%	3.5%	11.6%	13.2%
Tier 1 capital	6.0%	2.6%	8.6%	1.0%	9.6%	3.5%	13.1%	14.6%
Total capital	8.0%	2.6%	10.6%	1.0%	11.6%	3.5%	15.1%	16.4%
Leverage ratio	3.0%	n.a.	3.0%	0.5%	3.5%	n.a.	3.5%	4.2%
TLAC ratio	21.6%	n.a.	21.6%	n.a.	21.6%	3.5%	25.1%	29.3%
TLAC leverage ratio	7.25%	n.a.	7.25%	n.a.	7.25%	n.a.	7.25%	8.4%

- (1) 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. For leverage ratio, only 50% of our D-SIB surcharge for capital is the required surcharge.
- (2) The capital buffers include the capital conservation buffer of 2.5% and the countercyclical capital buffer (CCyB) as prescribed by OSFI. The CCyB, calculated in accordance with OSFI's CAR guidelines, was 0.08% as at October 31, 2024 (October 31, 2023 0.06%).
- (3) The DSB can range from 0% to 4% of total RWA and is currently set at 3.5%.
- (4) Minimum target requirements reflect CCyB requirements as at October 31, 2024 which are subject to change based on exposures held at the reporting date.
- n.a. not applicable

#### Regulatory capital, TLAC available, RWA, capital and TLAC ratios

Under Basel III, capital consists of CET1, Additional Tier 1, Tier 2 capital and external TLAC instruments.

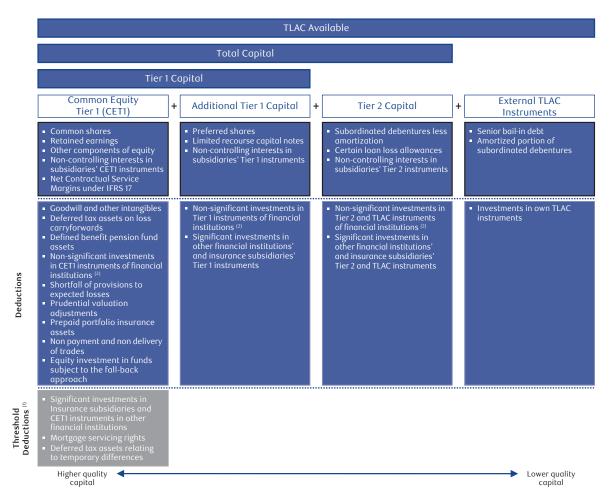
CET1 capital comprises the highest quality of capital. Regulatory adjustments under Basel III include full deductions of certain items and additional capital components that are subject to threshold deductions as prescribed in the CAR guidelines.

Tier 1 capital comprises predominantly CET1 and Additional Tier 1 items including non-cumulative preferred shares and limited recourse capital notes (LRCNs) that meet certain criteria. Tier 2 capital primarily includes subordinated debentures that meet certain criteria and certain loan loss allowances. Total capital is defined as the sum of Tier 1 and Tier 2 capital. Preferred shares, LRCNs, and subordinated debentures issued after January 1, 2013 require Non-viability contingent capital (NVCC) features to be included into regulatory capital. NVCC requirements ensure that non-common regulatory capital instruments bear losses before banks seek government funding.

TLAC available is defined as the sum of Total capital and external TLAC instruments. External TLAC instruments comprise predominantly senior bail-in debt, which includes eligible senior unsecured debt with an original term to maturity of greater than 400 days and remaining term to maturity of greater than 365 days.

Capital ratios are calculated by dividing CET1, Tier 1, Total capital and TLAC available by total RWA.

The following chart provides a summary of the major components of CET1, Additional Tier 1, Tier 2 capital and external TLAC instruments.



- First level: The amount by which each of the items exceeds a 10% threshold of CET1 capital (after all deductions but before threshold deductions) will be deducted from CET1 capital. Second level: The aggregate amount of the three items not deducted from the first level above and in excess of 15% of CET1 capital after regulatory adjustments will be deducted from capital, and the remaining balance not deducted will be risk-weighted at 250%
- Non-significant investments are subject to certain CAR criteria that drive the amount eligible for deduction.

The following tables provide details on our regulatory capital, TLAC available, RWA, and on ratios for capital, leverage and TLAC. Our capital position remains strong and our capital, leverage and TLAC ratios remain well above OSFI regulatory targets:

Regulatory capital, TLAC available, RWA and capital, leverage and TLAC ratios				
	As	at		
	October 31	October 31		
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)	2024	2023		
<b>Capital</b> (1), (2)				
CET1 capital	\$ 88,936	\$ 86,611		
Tier 1 capital	97,952	93,904		
Total capital	110,487	104,952		
Risk-weighted assets (RWA) used in calculation of capital ratios (1), (2)				
Credit risk	\$ 548,809	\$ 475,842		
Market risk	33,930	40,498		
Operational risk	89,543	79,883		
Total RWA	\$ 672,282	\$ 596,223		
Capital ratios and Leverage ratio (1), (2)				
CET1 ratio	13.2%	14.5%		
Tier 1 capital ratio	14.6%	15.7%		
Total capital ratio	16.4%	17.6%		
Leverage ratio	4.2%	4.3%		
Leverage ratio exposure	\$ 2,344,228	\$ 2,179,590		
TLAC available and ratios (1), (3)				
TLAC available	\$ 196,659	\$ 184,916		
TLAC ratio	29.3%	31.0%		
TLAC leverage ratio	8.4%	8.5%		

As prior period restatements are not required by OSFI, there was no impact from the adoption of IFRS 17 on regulatory capital, RWA,

As prior period restatements are not required by OSFI, there was no impact from the daoption of IFRS 17 on regulatory capital, RWA, capital ratios, leverage ratio, TLAC available and TLAC ratios for periods prior to November 1, 2023.

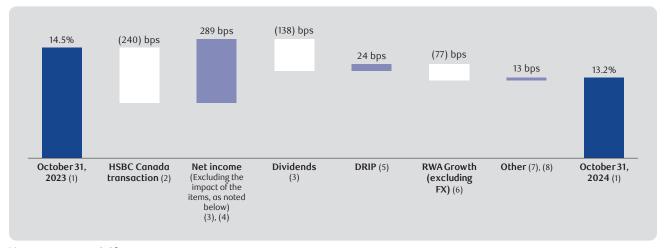
Capital, RWA, and capital ratios are calculated using OSFI's CAR guideline and the Leverage ratio is calculated using OSFI's LR guideline. Both the CAR guideline and LR guideline are based on the Basel III framework. The results for the year ended October 31, 2023 reflect our adoption of the revised CAR and LR guidelines that came into effect in the second quarter of 2023, as further updated on October 20, 2023 as part of OSFI's implementation of the Basel III reforms. The results for the year ended October 31, 2024 also reflect our adoption of the revised market risk and CVA frameworks that came into effect on November 1, 2023.

TLAC available and TLAC ratios are calculated using OSFI's TLAC guideline. The TLAC standard is applied at the resolution entity level which for us is deemed to be Royal Bank of Canada and its subsidiaries. A resolution entity and its subsidiaries are collectively called a resolution group. The TLAC ratio and TLAC leverage ratio are calculated using the TLAC available as a percentage of total RWA and leverage exposure, respectively.

Regulatory capital and TLAC available				Table 66
		As	at	
		October 31		October 31
(Millions of Canadian dollars)		2024		2023
CET1 capital: instruments and reserves and regulatory adjustments (1)				
Directly issued qualifying common share capital (and equivalent for non-joint stock companies) plus related stock surplus	\$	21,243	\$	19,365
Retained earnings	~	88,317	Ÿ	84,130
Contractual service margins regulatory adjustment		1,526		n.a.
Accumulated other comprehensive income (and other reserves)		8,498		6,852
Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)		11		11
Regulatory adjustments applied to CET1 under Basel III		(30,659)		(23,747)
Common Equity Tier 1 capital (CET1)	\$	88,936	\$	86,611
Additional Tier 1 capital: instruments and regulatory adjustments (1)				
Directly issued qualifying Additional Tier 1 instruments plus related stock surplus	\$	9,014	\$	7,291
Additional Tier 1 instruments issued by subsidiaries and held by third parties	~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Y	7,271
(amount allowed in group AT1)		2		2
Additional Tier 1 capital (AT1)	\$	9,016	\$	7,293
Tier 1 capital (T1 = CET1 + AT1)	\$	97,952	\$	93,904
Tier 2 capital: instruments and provisions and regulatory adjustments (1)				
Directly issued qualifying Tier 2 instruments plus related stock surplus	\$	11,412	\$	9,683
Tier 2 instruments issued by subsidiaries and held by third parties (amount		2		2
allowed in group Tier 2) Collective allowance		1 120		1 262
	_	1,120		1,362
Tier 2 capital (T2)	\$	12,535	\$	11,048
Total capital (T1 + T2)	\$	110,487	\$	104,952
External TLAC: instruments and regulatory adjustments (1)				
External TLAC instruments	\$	85,008	\$	78,952
Amortised portion of T2 instruments where remaining maturity > 1 year		1,670		1,248
Regulatory adjustments applied to TLAC under Basel III		(506)		(236)
TLAC available (Total capital + External TLAC)	\$	196,659	\$	184,916

As prior period restatements are not required by OSFI, there was no impact from the adoption of IFRS 17 on regulatory capital, RWA, capital ratios, leverage ratio, TLAC available and TLAC ratios for periods prior to November 1, 2023.

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- (1) Represents rounded figures.
- (2) Includes capital deductions for goodwill and intangible assets of (139) bps, initial PCL on the purchased performing loans of (2) bps and RWA resulting from the HSBC Canada transaction of (99) bps.
- (3) Represents net internal capital generation of \$9 billion or 151 bps consisting of Net income available to shareholders excluding the impact of specified items, less common and preferred share dividends and distributions on other equity instruments.
- (4) Excludes specified items for transaction and integration costs relating to the HSBC Canada transaction and the management of closing capital volatility related to the HSBC Canada transaction.
- (5) For further details about the Dividend reinvestment plan (DRIP), refer to Note 19 of our 2024 Annual Consolidated Financial Statements.
- (6) Excludes the impact of the HSBC Canada transaction.
- (7) Includes an unfavourable impact from the adoption of IFRS 17 of 13 bps, partially offset by a favourable impact of 11 bps from the second phase of OSFI's adoption of the Basel III reforms discussed above.
- (8) Includes the impact of the specified items noted above.

Our CET1 ratio was 13.2%, down 130 bps from last year, primarily reflecting the impact of the HSBC Canada transaction and RWA growth (excluding FX), partially offset by net internal capital generation and share issuances under the DRIP.

Our Tier 1 capital ratio of 14.6% was down 110 bps, mainly reflecting the factors noted under the CET1 ratio, partially offset by the net issuance of preferred shares and limited recourse capital notes (LRCNs).

Our Total capital ratio of 16.4% was down 120 bps, mainly reflecting the factors noted above under the Tier 1 capital ratio, partially offset by the net issuance of subordinated debentures.

Our Leverage ratio of 4.2% was down 10 bps, primarily due to the impact of the HSBC Canada transaction and higher business-driven growth in leverage exposures. These factors were partially offset by net internal capital generation and share issuances under the DRIP and the net issuance of preferred shares and LRCNs.

Leverage exposures increased by \$165 billion, driven by the \$116 billion impact of the HSBC Canada transaction, as well as business growth primarily in wholesale and retail lending.

Our TLAC ratio of 29.3% was down 170 bps, reflecting the factors noted above under the Total capital ratio, partially offset by a favourable impact from a net increase in eligible external TLAC instruments.

Our TLAC leverage ratio of 8.4% was down 10 bps, reflecting the factors noted above in the Leverage ratio, partially offset by a favourable impact from a net increase in eligible external TLAC instruments.

External TLAC instruments include long-term debt subject to conversion under the Bail-in regime. For further details, refer to Deposit and funding profile in the Liquidity and funding risk section.

#### Basel III RWA

OSFI requires banks to meet minimum risk-based capital requirements for exposures to credit risk, operational risk, and where they have significant trading activity, market risk. RWA is calculated for each of these risk types and added together to determine total RWA. In addition, a minimum capital floor requirement must be maintained as prescribed under OSFI's CAR guidelines which is currently set to 67.5% of RWA as calculated under current Basel III standardized credit risk and market risk approaches as defined in the CAR guidelines. If the capital requirement is less than the required threshold, a floor adjustment to RWA must be applied to the reported RWA as prescribed by OSFI's CAR guidelines.

Total capital risk-weighted as:	sets							Table 67
				2024				2023
				Risk-we	eighted assets All-	-in Basis		
As at October 31 (Millions of Canadian dollars,		Average of risk-	Standardized	Advanced				
except percentage amounts)	Exposure (1)		approach			Other Toto	ıl	Total
Credit risk								
Lending-related and other								
Residential mortgages	\$ 622,788	8%	\$ 4,396	\$ 47,532	2 \$ -	\$ - \$ 51,92	3 \$	44,864
Other retail (personal, credit								
cards and small business								
treated as retail)	204,317	31%	7,245	55,434	-	- 62,679	)	61,714
Business (corporate,								
commercial, medium-sized								
enterprises and non-bank	F ( 0 000	<b>500</b> /	67.073	122.00		202 50		220 575
financial institutions)	560,902	50% 4%	67,873 2,568		,	- 282,59		238,565 14,018
Sovereign (government) Bank	368,089 45,522	4%	10,558		- 8,673	- 14,110 - 19,23		14,018
	· · · · · · · · · · · · · · · · · · ·							
Total lending-related and other	\$ 1,801,618	24%	\$ 92,640	\$ 238,419	99,490	\$ - \$ 430,549	<b>)</b> \$	373,500
Trading-related								
Repo-style transactions	\$ 1,316,003	1%						
Derivatives – including CVA	139,874	26%	1,044	2,405	14,438	18,817 36,70	1	32,995
Total trading-related	\$ 1,455,877	3%	\$ 1,308	\$ 2,727	\$ 22,259	\$ 18,938 \$ 45,232	2 \$	40,787
Total lending-related and other								
and trading-related	\$ 3,257,495	15%		\$ 241,146	\$ 121,749	\$ 18,938 \$ 475,78	1 \$	414,287
Bank book equities	6,118	197%	12,079	-		- 12,079		10,074
Securitization exposures	76,219	20%	6,356	8,825	<b>-</b>	- 15,18		11,510
Other assets	34,310	133%	n.a.	n.a	. n.a.	45,768 45,768	3	39,971
Total credit risk	\$ 3,374,142	16%	\$ 112,383	\$ 249,971	\$ 121,749	\$ 64,706 \$ 548,809	<b>)</b> \$	475,842
Market risk (3)								
Interest rate			\$ 1,956			\$ 1,95	5	
Equity			3,656			3,65	5	
Foreign exchange			2,787			2,78	7	
Commodities			1,787			1,78		
Credit			8,374			8,37		
Default risk charge			10,898			10,89		
Other (4)			4,472			4,47	2	
Total market risk			\$ 33,930			\$ 33,930	0 \$	40,498
Operational risk			\$ 89,543			\$ 89,54	3 \$	79,883

<sup>(1)</sup> Total exposure represents exposure at default (EAD) which is the expected gross exposure upon the default of an obligor. This amount excludes any allowance against impaired loans or partial write-offs and does not reflect the impact of credit risk mitigation.

**\$ 235,856 \$ 249,971 \$ 121,749 \$ 64,706 \$ 672,282** \$ 596,223

(2) Represents the average of counterparty risk weights within a particular category.

\$ 3,374,142

Total risk-weighted assets

#### 2024 vs. 2023

Total RWA was up \$76 billion from last year, driven by the \$44 billion impact of the HSBC Canada transaction, which was primarily reflected in credit and operational risk. Business growth primarily reflected in retail and commercial lending in Canada, and in operational risk as well as the impact of net credit migration also contributed to the increase. These factors were partially offset by the net impact of regulatory updates. In our CET1 ratio, the impact of foreign exchange translation on RWA is largely mitigated with economic hedges.

<sup>(3)</sup> Balances as at October 31, 2024 reflect our adoption of the revised market risk framework that came into effect on November 1, 2023 as part of OSFI's implementation of the Basel III reforms.

<sup>(4)</sup> Represents the market risk RWA for the residual risk add-on charge under the standardized approach and the capital surcharge for movements between the trading book and banking book.

n.a. not applicable

Selected capital management activity			Table 68
	For the year		
(Millions of Canadian dollars, except number of shares)	Issuance or redemption date	Number of shares (000s)	Amount
Tier 1 capital	•	,	
Common shares activity			
Issued in connection with share-based compensation plans (1) Issued under the DRIP (2) Purchased for cancellation (2) Redemption of preferred shares, Series C-2 (2) Issuance of preferred shares, Series BU (2), (3) Issuance of LRCNs Series 4 (2), (3), (4) Redemption of preferred shares, Series AZ (2), (3) Issuance of preferred shares, Series BW (2), (3) Redemption of preferred shares, Series BB (2), (3)	November 7, 2023 January 25, 2024 April 24, 2024 May 24, 2024 July 24, 2024 August 24, 2024	1,746 11,850 (889) (15) 750 1,000 (20,000) 600 (20,000)	\$ 168 1,460 (13) (23) 750 1,370 (500) 600 (500)
Tier 2 capital			
Issuance of April 3, 2034 subordinated debentures (3), (5)	April 2, 2024		\$ 2,000
Redemption of July 25, 2029 subordinated debentures (3), (5)	July 25, 2024		(1,500)
Issuance of August 8, 2034 subordinated debentures (3), (5)	July 29, 2024		1,250

- (1) Amounts include cash received for stock options exercised during the period and fair value adjustments to stock options.
- (2) For further details, refer to Note 19 of our 2024 Annual Consolidated Financial Statements.
- (3) Non-Viability Contingent Capital (NVCC) instruments.
- (4) For the LRCNs, the number of shares represents the number of notes issued.
- (5) For further details, refer to Note 18 of our 2024 Annual Consolidated Financial Statements.

On June 10, 2024, we announced a normal course issuer bid (NCIB) to purchase up to 30 million of our common shares, commencing on June 12, 2024 and continuing until June 11, 2025, or such earlier date as we complete the repurchase of all shares permitted under the bid. Since the inception of this NCIB, the total number of common shares repurchased and cancelled was approximately 889 thousand, at a cost of approximately \$140 million.

We determine the amount and timing of 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 the prevailing market price at the time of acquisition.

On November 7, 2023, we redeemed all 15 thousand of our issued and outstanding Non-Cumulative First Preferred Shares Series C-2 at a redemption price of US\$1,000 per share. Concurrently, we redeemed all 615 thousand Series C-2 depositary shares, each of which represents a one-fortieth interest in a Series C-2 share.

On January 25, 2024, we issued 750 thousand Non-Cumulative 5-Year Fixed Rate Reset First Preferred Shares Series BU (NVCC) to certain institutional investors at a price of \$1,000 per share.

On April 2, 2024, we issued \$2,000 million of NVCC subordinated debentures. The notes bear interest at a fixed rate of 5.096% per annum until April 3, 2029, and at the Daily Compounded Canadian Overnight Repo Rate Average plus 1.56% thereafter until their maturity on April 3, 2034.

On April 24, 2024, we issued US\$1,000 million of LRCN Series 4 at a price of US\$1,000 per note. The LRCN Series 4 bear interest at a fixed rate of 7.5% per annum until May 2, 2029. Thereafter, the interest rate on the LRCN Series 4 will reset every five years at a rate per annum equal to the prevailing 5-Year U.S. Treasury Rate plus 2.887% until their maturity on May 2, 2084.

On May 24, 2024, we redeemed all 20 million of our issued and outstanding Non-Cumulative 5-Year Rate Reset First Preferred Shares Series AZ at a redemption price of \$25 per share.

On July 24, 2024, we issued 600 thousand Non-Cumulative 5-Year Fixed Rate Reset First Preferred Shares Series BW (NVCC) to certain institutional investors at a price of \$1,000 per share.

On July 25, 2024, we redeemed all \$1,500 million of our outstanding NVCC 2.74% subordinated debentures due July 25, 2029 for 100% of their principal amount plus accrued interest to, but excluding, the redemption date.

On July 29, 2024, we issued \$1,250 million of NVCC subordinated debentures. The notes bear interest at a fixed rate of 4.829% per annum until August 8, 2029, and at the Daily Compounded Canadian Overnight Repo Rate Average plus 1.55% thereafter until their maturity on August 8, 2034.

On August 24, 2024, we redeemed all 20 million of our issued and outstanding Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BB at a redemption price of \$25 per share.

On November 1, 2024, we issued US\$1,000 million of LRCN Series 5 at a price of US\$1,000 per note. The LRCN Series 5 bear interest at a fixed rate of 6.350% per annum until November 24, 2034. Thereafter, the interest rate on the LRCN Series 5 will reset every five years at a rate per annum equal to the prevailing 5-Year U.S. Treasury Rate plus 2.257% until their maturity on November 24, 2084.

On November 5, 2024, we also announced our intention to redeem all outstanding NVCC 2.88% subordinated debentures due on December 23, 2029 for 100% of their principal amount plus accrued interest to, but excluding, the redemption date, on December 23, 2024.

#### **Dividends**

Our common share dividend policy reflects our earnings outlook, payout ratio objective and the need to maintain adequate levels of capital to support business plans. In 2024, our dividend payout ratio was 50%. Common share dividends paid during the year were \$8 billion.

Selected share data (1)						Table 69
		2024			2023	
(Millions of Canadian dollars, except number of shares and as otherwise noted)	Number of shares (000s)	Amount	Dividends declared per share	Number of shares (000s)	Amount	Dividends declared per share
Common shares issued Treasury shares – common shares (2)	1,415,080 (576)	\$ 21,013 (61)	\$ 5.60	1,402,373 (1,862)	\$ 19,398 (231)	\$ 5.34
Common shares outstanding	1,414,504	\$ 20,952		1,400,511	\$ 19,167	
Stock options and awards Outstanding Exercisable Available for grant	7,375 3,212 2,291			7,793 3,830 3,693		
First preferred shares issued Non-cumulative Series AZ (3), (4), (5) Non-cumulative Series BB (3), (4), (6) Non-cumulative Series BD (3), (4) Non-cumulative Series BF (3), (4) Non-cumulative Series BH (4) Non-cumulative Series BO (3), (4) Non-cumulative Series BO (3), (4) Non-cumulative Series BU (3), (4), (7) Non-cumulative Series BW (3), (4), (7) Non-cumulative Series BW (3), (4), (7) Non-cumulative Series C-2 (8) Other equity instruments issued Limited recourse capital notes Series 1 (3), (4), (9), (10) Limited recourse capital notes Series 3 (3), (4), (9), (10) Limited recourse capital notes Series 3 (3), (4), (9), (10) Limited recourse capital notes	24,000 12,000 6,000 6,000 14,000 750 750 600 - 1,750 1,250	\$ - 600 300 150 150 350 750 750 600 - 1,750 1,250 1,000	\$ 0.69 0.68 0.80 0.75 1.23 1.40 4.20% 7.408% 6.698% US\$ - 4.50% 4.00%	20,000 20,000 24,000 12,000 6,000 14,000 750 - 15 1,750 1,250	\$ 500 500 600 300 150 150 350 750 - - 23 1,750 1,250	\$ 0.93 0.91 0.80 0.75 1.23 1.20 4.20% - US\$ 67.50 4.50% 4.00% 3.65%
Series 4 (3), (4), (9), (10)	1,000	1,370	7.50%	_	_	
Preferred shares and other equity instruments issued Treasury instruments – preferred shares and other equity instruments (2)	69,100 13	\$ 9,020 11		106,765	\$ 7,323 (9)	
Preferred shares and other equity instruments outstanding	69,113	\$ 9,031		106,756	\$ 7,314	
Dividends on common shares Dividends on preferred shares and distributions on other equity instruments (11)		\$ 7,916 322			\$ 7,443 236	

- (1) For further details about our capital management activity, refer to Note 19 of our 2024 Annual Consolidated Financial Statements.
- (2) Positive amounts represent a short position and negative amounts represent a long position.
- (3) Dividend rate will reset every five years
- (4) NVCC instruments.
- (5) On May 24, 2024, we redeemed all 20 million of our issued and outstanding Non-Cumulative 5-Year Rate Reset First Preferred Shares Series AZ at a redemption price of \$25 per share.
- (6) On August 24, 2024, we redeemed all 20 million of our issued and outstanding Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BB at a redemption price of \$25 per share.
- (7) The dividends declared per share represent the per annum dividend rate applicable to the shares issued as at the reporting date.
- (8) 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. On November 7, 2023, we redeemed all 15 thousand of our issued and outstanding Non-Cumulative First Preferred Shares Series C-2 at a redemption price of US\$1,000 per share. Concurrently, we redeemed all 615 thousand Series C-2 depositary shares, each of which represents a one-fortieth interest in a Series C-2 share.
- (9) For LRCN Series, the number of shares represent the number of notes issued and the dividends declared per share represent the annual interest rate percentage applicable to the notes issued as at the reporting date.
- (10) In connection with the issuance of LRCN Series 1, on July 28, 2020, we issued \$1,750 million of First Preferred Shares Series BQ (Series BQ); in connection with the issuance of LRCN Series 2, on November 2, 2020, we issued \$1,250 million of First Preferred Shares Series BR (Series BR); in connection with the issuance of LRCN Series 3, on June 8, 2021, we issued \$1,000 million of First Preferred Shares Series BS (Series BS); and in connection with the issuance of LRCN Series 4 on April 24, 2024, we issued US\$1,000 million of First Preferred Shares Series BV (Series BV). The Series BQ, BR and BS preferred shares were issued at a price of \$1,000 per share and the Series BV preferred shares were issued at a price of US\$1,000 per share. The Series BQ, BR, BS and BV preferred shares were issued to a consolidated trust to be held as trust assets in connection with the LRCN series. For further details, refer to Note 19 of our 2024 Annual Consolidated Financial Statements.
- (11) Excludes distributions to non-controlling interests.

As at November 29, 2024, the number of outstanding common shares was 1,415,000,013, net of treasury shares held of 80,286, and the number of stock options and awards was 7,375,359.

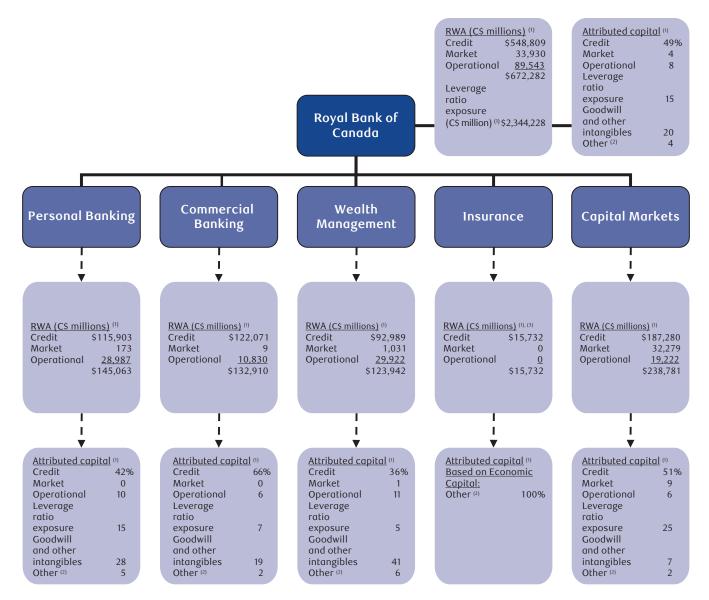
NVCC provisions require the conversion of the capital instrument into a variable number of common shares in the event that OSFI deems a bank to be non-viable or a federal or provincial government in Canada publicly announces that a bank has accepted or agreed to accept a capital injection. If a NVCC trigger event were to occur, our NVCC capital instruments as at October 31, 2024, which were the preferred shares Series BD, BF, BH, BI, BO, BT, BU, BW, LRCN Series 1, LRCN Series 2, LRCN Series 3, LRCN Series 4 and subordinated debentures due on January 27, 2026, December 23, 2029, June 30, 2030, January 28, 2033, November 3, 2031, May 3, 2032, February 1, 2033, April 3, 2034 and August 8, 2034 would be converted into 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 (subject to adjustment in certain circumstances), and (ii) the current market price of our common shares at the time of the trigger event (10-day volume 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 approximately 6 billion common shares, in aggregate, which would represent a dilution impact of 80.7% based on the number of common shares outstanding as at October 31, 2024.

#### Attributed capital

Our methodology for allocating capital to our business segments is based on the Basel III regulatory capital requirements, with the exception of Insurance. Effective November 1, 2023, our attributed capital methodology incorporates leverage requirements to allocate capital to our business segments. Our Insurance platform continues to be allocated capital based on fully diversified economic capital. Risk-based capital attribution provides a uniform base for performance measurement among business segments, which compares to our overall corporate return objective and facilitates management decisions in resource allocation in conjunction with other factors.

The calculation and attribution of capital involves a number of assumptions and judgments by management which are monitored to ensure that the regulatory capital framework remains comprehensive and consistent. The models are benchmarked to leading industry practices via participation in surveys, reviews of methodologies and ongoing interaction with external risk management industry professionals.

For additional information on the risks highlighted below, refer to the Risk management section.



- (1) RWA and Leverage ratio exposure amount represents period-end spot balances. Attributed Capital represents average balances.
- (2) Other includes (a) non-Insurance segments: equity required to underpin Basel III regulatory capital deductions other than Goodwill and other intangibles and (b) Insurance segment: equity required to underpin risks associated with the business.
- (3) Insurance RWA represents our investments in the insurance subsidiaries capitalized at the regulatory prescribed rate as required under the OSFI CAR guideline.

## Other considerations affecting capital

Capital treatment for equity investments in other entities is determined by a combination of accounting and regulatory guidelines based on the size or nature of the investment. Three broad approaches apply as follows:

- · Consolidation: entities which we control are consolidated on our Consolidated Balance Sheets.
- Deduction: certain holdings are deducted from our regulatory capital. These include all unconsolidated "substantial investments", as defined by the *Bank Act* (Canada) in the capital of financial institutions, as well as all investments in insurance subsidiaries and certain equity investments in funds.
- Risk-weighting: equity investments that are not deducted from capital are risk-weighted at a prescribed rate for determination of capital charges.

#### Regulatory capital approach for securitization exposures

Our securitization regulatory capital approach reflects Chapter 6 of OSFI's CAR guidelines. For our securitization exposures, we use an internal assessment approach (IAA) for exposures related to our ABCP business, and as per regulatory guidelines for other securitization exposures we use a combination of approaches including an external ratings-based approach, an IRB approach and a standardized approach.

While our IAA rating methodologies are based in large part on criteria that are published by External Credit Assessment Institutions (ECAIs) such as S&P and therefore are similar to the methodologies used by these institutions, they are not identical. Our ratings process includes a comparison of the available credit enhancement in a securitization structure to a stressed level of projected losses. The stress level used is determined by the desired risk profile of the transaction. As a result, we stress the cash flows of a given transaction at a higher level in order to achieve a higher rating. Conversely, transactions that only pass lower stress levels achieve lower ratings.

Many of the other securitization exposures (non-ABCP) carry external ratings and we use the external ratings-based approach, otherwise will follow the SA, for determining the proper capital allocation for these positions. We periodically compare our own ratings to ECAIs ratings to ensure that the ratings provided by ECAIs are reasonable.

GRM is responsible for providing risk assessments for capital purposes in respect of all our banking book exposures. GRM is independent of the business originating the securitization exposures and performs its own analysis, sometimes in conjunction with but always independent of the applicable business. GRM has developed asset class specific criteria guidelines which provide the rating methodologies for each asset class. The guidelines are reviewed periodically and are subject to the ratings replication process mandated by Pillar I of the Basel rules.

#### Regulatory developments

On November 1, 2023, we adopted OSFI's Parental Stand-Alone (Solo) Total Loss Absorbing Capacity (TLAC) Framework for D-SIBs, which establishes a risk-based measure intended to ensure a non-viable D-SIB has sufficient loss absorbing capacity on a stand-alone, legal entity basis to support its resolution. D-SIBs must maintain a minimum Solo TLAC ratio of 21.5%, and we are compliant with the requirements set out in this new framework.

# Accounting and control matters

# Critical accounting policies and estimates

#### Application of critical accounting policies, judgments, estimates and assumptions

Our material accounting policies are described in Note 2 of our 2024 Annual Consolidated Financial Statements. Certain of these policies and related estimates are recognized as critical because they require us to make particularly subjective or complex judgments about matters that are inherently uncertain and significantly different amounts could be reported under different conditions or using different assumptions. Our critical accounting judgments, estimates and assumptions relate to the fair value of financial instruments, ACL, goodwill and other intangible assets, employee benefits, consolidation of structured entities, derecognition of financial assets, application of the effective interest method, provisions, insurance and reinsurance contracts, and income taxes. Our critical accounting policies and estimates have been reviewed and approved by our Audit Committee, in consultation with management, as part of their review and approval of our material accounting policies, judgments, estimates and assumptions.

# Changes in accounting policies

During the first quarter of 2024, we adopted IFRS 17 *Insurance Contracts* (IFRS 17), replacing IFRS 4 *Insurance Contracts* (IFRS 4). Our updated critical accounting policies and estimates for insurance and reinsurance contracts are described below. We have applied IFRS 17 retrospectively and restated comparative period results beginning November 1, 2022. Adjustments to the carrying amounts of insurance and reinsurance contracts at the transition date of November 1, 2022 were recognized in Retained earnings. The comparative period information for insurance and reinsurance contracts prior to November 1, 2022 is presented in accordance with our previous accounting policies.

As permitted by the transition provisions of IFRS 17, we reclassified certain financial assets between fair value classification categories at the date of initial application of IFRS 17. The reclassifications resulted in no adjustments to the carrying amounts of financial assets as at November 1, 2023. Retained earnings and Other components of equity as at November 1, 2023 were adjusted as a result with no net impact to total equity. As permitted, we elected not to restate comparative period results for these changes and accordingly, comparative period information for the impacted financial assets prior to November 1, 2023 is presented in accordance with our previous classifications.

Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for details of these changes.

#### Fair value of financial instruments

The fair value of a financial instrument is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. We determine fair value by incorporating factors that market participants would consider in setting a price, including commonly accepted valuation approaches.

We give priority to third-party pricing services and valuation techniques with the highest and most consistent accuracy. The level of accuracy is determined over time by comparing third-party price values to traders' or system values, other pricing service values and, when available, actual trade data. Other valuation techniques are used when a price or quote is not available. Some valuation processes use models to determine fair value. We have a systematic and consistent approach to control the use of models.

In determining fair value, a hierarchy is used which prioritizes the inputs to valuation techniques. The fair value hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). Determination of fair value based on this hierarchy requires the use of observable market data whenever available. Level 1 inputs are unadjusted quoted prices in active markets for identical assets or liabilities that we have the ability to access at the measurement date. Level 2 inputs include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, and model inputs that are either observable, or can be corroborated by observable market data for substantially the full term of the assets or liabilities. Level 3 inputs include one or more inputs that are unobservable and significant to the fair value of the asset or liability. Unobservable inputs are used to measure fair value to the extent that observable inputs are not available at the measurement date. The availability of inputs for valuation may affect the selection of valuation techniques. The classification of a financial instrument in the fair value hierarchy for disclosure purposes is based upon the lowest level of input that is significant to the measurement of fair value.

Where observable prices or inputs are not available, management judgment is required to determine fair values by assessing other relevant sources of information such as historical data, proxy information from similar transactions, and through extrapolation and interpolation techniques. For more complex or illiquid instruments, significant judgment is required in the determination of the model used, the selection of model inputs, and in some cases, the application of valuation adjustments to the model value or quoted price for inactively traded financial instruments. The selection of model inputs may be subjective and the inputs may be unobservable. Unobservable inputs are inherently uncertain as there is little or no market data available from which to determine the level at which the transaction would occur under normal business circumstances. Appropriate parameter uncertainty and market risk valuation adjustments for such inputs and other model risk valuation adjustments are assessed in all such instances.

Valuation adjustments may be subjective as they require significant judgment in the input selection, such as implied PD and recovery rate, and are intended to arrive at a fair value that is determined based on assumptions that market participants would use in pricing the financial instrument. The ultimate realized price for a transaction may differ from its recorded fair value estimated using management judgment.

For further information on the fair value of financial instruments, refer to Notes 2 and 3 of our 2024 Annual Consolidated Financial Statements.

#### Allowance for credit losses

An allowance for credit losses (ACL) is established for all financial assets, except for financial assets classified or designated as FVTPL and equity securities designated as FVOCI, which are not subject to impairment assessment. Assets subject to impairment assessment include loans, debt securities, interest-bearing deposits with banks, customers' liability under acceptances, accounts and accrued interest receivable, and finance and operating lease receivables. Off-balance sheet items subject to impairment assessment include financial guarantees and undrawn loan commitments.

We measure the ACL on each balance sheet date according to a three-stage expected credit loss impairment model:

- Performing financial assets
  - Stage 1 From initial recognition of a financial asset to the date on which the asset has experienced a significant increase in credit risk relative to its initial recognition, a loss allowance is recognized equal to the credit losses expected to result from defaults occurring over the 12 months following the reporting date.
  - Stage 2 Following a significant increase in credit risk relative to the initial recognition of the financial asset, a loss allowance is recognized equal to the credit losses expected over the remaining lifetime of the asset.
- Impaired financial assets
  - Stage 3 When a financial asset is considered to be credit-impaired, a loss allowance is recognized equal to credit losses expected over the remaining lifetime of the asset. Interest income is calculated based on the carrying amount of the asset, net of the loss allowance, rather than on its gross carrying amount.

The ACL is a discounted probability-weighted estimate of the cash shortfalls expected to result from defaults over the relevant time horizon. For loan commitments, credit loss estimates consider the portion of the commitment that is expected to be drawn over the relevant time period. For financial guarantees, credit loss estimates are based on the expected payments required under the guarantee contract. For finance lease receivables, credit loss estimates are based on cash flows consistent with the cash flows used in measuring the lease receivable.

The ACL represents an unbiased estimate of expected credit losses on our financial assets as at the balance sheet date. Judgment is required in making assumptions and estimations when calculating the ACL, including movements between the three stages, the inclusion of forward looking information and the application of expert credit judgment. The underlying assumptions and estimates may result in changes to the provisions from period to period that significantly affect our results of operations.

For further information on ACL, refer to Notes 2, 4 and 5 of our 2024 Annual Consolidated Financial Statements.

#### Goodwill and other intangible assets

We allocate goodwill to groups of cash-generating units (CGU). Goodwill is not amortized and is tested for impairment on an annual basis, or more frequently if there are objective indications of impairment. We test for impairment by comparing the recoverable amount of a CGU with its carrying amount.

We estimate the value in use and fair value less costs of disposal of our CGUs primarily using a discounted cash flow method which incorporates each CGU's internal forecasts of revenues and expenses. Significant management judgment is applied in the determination of expected future cash flows (uncertainty in timing and amount), discount rates (based on CGU-specific risks) and terminal growth rates. CGU-specific risks include country risk, business/operational risk, geographic risk (including political risk, devaluation risk and government regulation), currency risk and price risk (including product pricing risk and inflation). If the future cash flows and other assumptions in future periods deviate significantly from the current amounts used in our impairment testing, the value of our goodwill could become impaired.

We assess for indicators of impairment of our other intangible assets at each reporting period. If there is an indication that an asset may be impaired, an impairment test is performed by comparing the carrying amount of the intangible asset to its recoverable amount. Where it is not possible to estimate the recoverable amount of an individual asset, we estimate the recoverable amount of the CGU to which the asset belongs. Significant judgment is applied in estimating the useful lives and recoverable amounts of our intangible assets and assessing whether certain events or circumstances constitute objective evidence of impairment.

For further details, refer to Notes 2 and 11 of our 2024 Annual Consolidated Financial Statements.

#### **Employee** benefits

We sponsor a number of benefit programs for eligible employees, including registered pension plans, supplemental pension plans, health, dental, disability and life insurance plans.

The calculation of defined benefit expenses and obligations depends on various assumptions such as discount rates, healthcare cost trend rates, projected salary increases, retirement age, and mortality and termination rates. Discount rates are determined using a yield curve based on spot rates from high quality corporate bonds. All other assumptions are determined by us and are reviewed by the actuaries. Actual experience that differs from the actuarial assumptions will affect the amounts of benefit obligations and remeasurements that we recognize. The weighted average assumptions used and the sensitivity of key assumptions are presented in Note 16 of our 2024 Annual Consolidated Financial Statements.

#### Consolidation of structured entities

Subsidiaries are those entities, including structured entities, over which we have control. We control an entity when we are exposed, or have rights, to variable returns from our involvement with the entity and have the ability to affect those returns through our power over the investee. We have power over an entity when we have existing rights that give us the current ability to direct the activities that most significantly affect the entity's returns (relevant activities). Power may be determined on the basis of voting rights or, in the case of structured entities, other contractual arrangements.

We are not deemed to control an entity when we exercise power over an entity as the agent of a third party or parties. In determining whether we are acting as an agent, we consider the overall relationship between us, the investee and other parties to the arrangement with respect to the following factors: (i) the scope of our decision-making power; (ii) the rights held by other parties; (iii) the remuneration to which we are entitled; and (iv) our exposure to variability of returns.

The determination of control is based on the current facts and circumstances and is continuously assessed. In some circumstances, different factors and conditions may indicate that various parties control an entity depending on whether those factors and conditions are assessed in isolation or in totality. Significant judgment is applied in determining whether we control an entity, specifically, assessing whether we have substantive decision-making rights over the relevant activities and whether we are exercising our power as a principal or an agent.

We consolidate all subsidiaries from the date we obtain control, and cease consolidation when an entity is no longer controlled by us. Our consolidation conclusions affect the classification and amount of assets, liabilities, revenues and expenses reported in our Consolidated Financial Statements.

For further details, refer to Note 8 of our 2024 Annual Consolidated Financial Statements.

#### Derecognition of financial assets

We periodically enter into transactions in which we transfer financial assets such as loans or MBS to structured entities or trusts that issue securities to investors. We derecognize the assets when our contractual rights to the cash flows from the assets have expired; when we retain the rights to receive the cash flows of the assets but assume an obligation to pay those cash flows to a third party subject to certain pass-through requirements; or when we transfer our contractual rights to receive the cash flows and substantially all of the risks and rewards of the assets have been transferred. When we retain substantially all of the risks and rewards of the transferred assets, the transferred assets are not derecognized from our Consolidated Balance Sheets and are accounted for as secured financing transactions. When we neither retain nor transfer substantially all risks and rewards of ownership of the assets, we derecognize the assets if control over the assets is relinquished. If we retain control over the transferred assets, we continue to recognize the transferred assets to the extent of our continuing involvement. Management judgment is applied in determining whether we have transferred or retained substantially all risk and rewards of ownership of the transferred financial asset.

The majority of assets transferred under repurchase agreements, securities lending agreements, to our mortgage fund and in our Canadian residential mortgage securitization transactions do not qualify for derecognition. As a result, we continue to record the associated transferred assets on our Consolidated Balance Sheets and no gains or losses are recognized for those securitization activities. Otherwise, a gain or loss is recognized on securitization by comparing the carrying amount of the transferred asset with its fair value at the date of the transfer. For further information on derecognition of financial assets, refer to Notes 2 and 7 of our 2024 Annual Consolidated Financial Statements.

#### Application of the effective interest method

Interest income and interest expense are generally recognized for all interest-bearing financial instruments using the effective interest method. The effective interest rate is the rate that discounts estimated future cash flows over the expected life of the financial asset or liability to the net carrying amount upon initial recognition. Significant judgment is applied in determining the effective interest rate due to uncertainty in the timing and amounts of future cash flows.

#### **Provisions**

Provisions are liabilities of uncertain timing or amount and are recognized when we have a present legal or constructive obligation as a result of a past event, it is probable that an outflow of resources will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation. Provisions are measured as the best estimate of the consideration required to settle the present obligation at the reporting date. Significant judgment is required in determining whether a present obligation exists and in estimating the probability, timing and amount of any outflows. We record provisions related to litigation, asset retirement obligations and other items.

The forward-looking nature of these estimates requires us to use a significant amount of judgment in projecting the timing and amount of future cash flows. We record our provisions on the basis of all available information at the end of the reporting period and make adjustments on a quarterly basis to reflect current expectations. Should actual results differ from our expectations, we may incur expenses in excess of the provisions recognized.

#### Insurance and reinsurance contracts

For insurance and reinsurance contracts measured using the general measurement method or variable fee approach, the carrying amount of a group of contracts is measured as the sum of the fulfilment cash flows and CSM. The fulfilment cash flows consist of the present value of future cash flows and a risk adjustment for non-financial risk, discounted using the current rates as at the reporting date determined using the discount rate methodologies below. The estimates of future cash flows consider probability-weighted scenarios and include all future cash flows that are within the contract boundary. The risk adjustment for non-financial risk is estimated using the margin approach and represents the compensation that we require for bearing the uncertainty about the amount and timing of cash flows that arise from non-financial risk as the insurance contract is fulfilled. The measurement of the group of contracts requires the use of judgment in setting methodologies and assumptions for morbidity, mortality, longevity, policy lapses and other policyholder behaviour, discount rates, policy dividends, and directly attributable expenses, including acquisition expenses allocated using a systematic and rational method. Changes to the underlying assumptions and estimates may have a significant effect on Non-interest income – Insurance service result and Insurance investment result.

Discount rates used reflect the time value of money and are based on the characteristics of the insurance and reinsurance contracts. Cash flows that vary based on the returns on underlying items are discounted at rates reflecting that variability. For cash flows that do not vary based on the returns on underlying items, we predominantly apply the top-down approach in determining discount rates. Under this approach, the discount rates for the observable periods are determined using yield curves implied from a reference portfolio of assets adjusted to eliminate factors (market and credit risk of the financial assets) that are not relevant to the insurance contracts. For unobservable periods, the discount rates are interpolated using the last observable point and the ultimate discount rate that is composed of a risk-free rate and illiquidity premium. For a selected portfolio, the bottom-up approach is applied in determining the discount rate, which uses a risk-free rate plus an illiquidity premium to reflect the characteristics of the contracts. Management judgment is required in estimating the market and credit risk factors and illiquidity premiums in determining the discount rates.

For insurance contracts, the CSM represents the unearned profit (net inflows) for providing insurance coverage. For reinsurance contracts held, the CSM represents the net cost or net gain of purchasing reinsurance. The CSM for insurance and reinsurance contacts are released into income based on coverage units, which represent the quantity of service (insurance coverage as well as investment-return and investment-related services) provided by a group of contracts and are determined by considering the quantity of benefits provided under each contract and the expected coverage duration.

Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further information.

#### Income taxes

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 authority. Management judgment is applied in interpreting the relevant tax laws, in assessing the probability of acceptance of our tax positions by the relevant tax authorities and in estimating the expected timing and amount of the provision for current and deferred income taxes. A deferred tax asset or liability is determined for each temporary difference based on the tax rates that are expected to be in effect in the period that the asset is realized or the liability is settled, except for earnings related to our subsidiaries, branches, associates and interests in joint ventures where the temporary differences will not reverse in the foreseeable future and we have the ability to control the timing of reversal.

On a quarterly basis, we review whether it is probable that the benefits associated with our deferred tax assets will be realized, using both positive and negative evidence. Refer to Note 21 of our 2024 Annual Consolidated Financial Statements for further information.

#### Future changes in accounting policy and disclosure

#### Amendments to the Classification and Measurement of Financial Instruments

In May 2024, the IASB issued Amendments to the Classification and Measurement of Financial Instruments which amends IFRS 9 Financial Instruments and IFRS 7 Financial Instruments: Disclosures (the Amendments). The Amendments clarify classification guidance for financial assets with environmental, social and governance-linked features and introduce additional related disclosure requirements. The Amendments will be effective for us on November 1, 2026. We are currently assessing the impact of adopting the Amendments on our Consolidated Financial Statements.

# IFRS 18 Presentation and Disclosure in Financial Statements (IFRS 18)

In April 2024, the IASB issued IFRS 18, which sets out requirements for the presentation and disclosure of information in the financial statements. IFRS 18 will replace IAS 1 Presentation of Financial Statements and accompanies limited amendments to other standards which will be effective upon the adoption of the new standard. The standard introduces new defined subtotals to be presented in the Consolidated Statements of Income, disclosure of management-defined performance measures and requirements for grouping of information. This standard will be effective for us on November 1, 2027. We are currently assessing the impact of adopting this standard on our Consolidated Financial Statements.

#### Controls and procedures

#### Disclosure controls and procedures

Our disclosure controls and procedures are designed to provide reasonable assurance that information required to be disclosed by us in reports filed or submitted under Canadian and U.S. securities laws is recorded, processed, summarized and reported within the time periods specified under those laws and include controls and procedures that are designed to ensure that information is accumulated and communicated to management, including the President and Chief Executive Officer, and the Chief Financial Officer, to allow timely decisions regarding required disclosure.

As of October 31, 2024, 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 Canadian securities regulatory authorities and 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 October 31, 2024.

#### Internal control over financial reporting

Management is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with IFRS. However, because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements on a timely basis. See Management's Report on Internal Control over Financial Reporting and the Report of Independent Registered Public Accounting Firm.

There were no changes in our internal control over financial reporting during the year ended October 31, 2024 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. While we implemented and modified certain internal controls over financial reporting as a result of the HSBC Canada transaction and the November 1, 2023 adoption of the IFRS 17 standard, these changes did not have a material impact on 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 25 of our 2024 Annual Consolidated Financial Statements.

#### Supplementary information

Selected annual information			Table 70
(Millions of Canadian dollars, except per share amounts)	2024	2023 (1)	2022 (1)
Total revenue	\$ 57,344	\$ 51,464	\$ 48,985
Net income attributable to:			
Shareholders	16,230	14,605	15,794
Non-controlling interest	10	7	13
	\$ 16,240	\$ 14,612	\$ 15,807
Basic earnings per share	\$ 11.27	\$ 10.33	\$ 11.08
Diluted earnings per share	11.25	10.32	11.06
Dividends declared per common shares	5.60	5.34	4.96
Total assets	\$ 2,171,582	\$ 2,006,531	\$ 1,917,219
Deposits	1,409,531	1,231,687	1,208,814

<sup>(1)</sup> Effective November 1, 2023, we adopted IFRS 17 Insurance Contracts retrospectively and restated the period ended October 31, 2023. Results for the period ended October 31, 2022 are reported in accordance with IFRS 4 Insurance Contracts in this 2024 Annual Report. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.

	Average l	balances	Inter	est	Averag	ge rate
(Millions of Canadian dollars, except for percentage amounts)	2024	2023 (1)	2024	2023 (1)	2024	2023 (1)
Assets Deposits with other banks Canada	\$ 13,170	,,,	\$ 1,468		11.15%	12.48%
U.S.	74,409	88,774	3,906	3,963	5.25	4.46
Other International	7,527 95,106	15,402 117,783	6,122	1,191 6,852	9.94 6.44	7.73 5.82
Securities	75,100	117,703	0,122	0,032	0.44	3.02
Trading Investment, net of applicable allowance	176,632 226,256	154,741 180,174	7,927 9,741	7,465 7,047	4.49 4.31	4.82 3.91
investment, net of applicable anowance	402,888	334,915	17,668	14,512	4.39	4.33
Asset purchased under reverse repurchase agreements and securities borrowed Loans (2) Canada	396,552	383,246	27,121	22,164	6.84	5.78
Retail Wholesale	541,468 165,911	502,459 120,047	29,663 12,295	23,862 8,878	5.48 7.41	4.75 7.40
U.S. Other International	707,379 159,046 51,263	622,506 158,443 50,782	41,958 8,362 3,720	32,740 6,891 3,832	5.93 5.26 7.26	5.26 4.35 7.55
	917,688	831,731	54,040	43,463	5.89	5.23
Total interest-earning assets Non-interest-bearing deposits with other banks Customers' liability under acceptances Other assets	1,812,234 60,220 9,094 226,909	1,667,675 71,959 19,912 244,880	104,951 - - -	86,991 - -	5.79 - - -	5.22 - -
Total assets	\$ 2,108,457	,	\$ 104,951	\$ 86,991	4.98%	4.34%
Liabilities and shareholders' equity Deposits (3)						
Canada U.S. Other International	\$ 892,275 155,928 83,069	\$ 770,309 153,838 93,658	\$ 36,999 6,377 3,880	\$ 27,627 5,383 3,669	4.15% 4.09 4.67	3.59% 3.50 3.92
	1,131,272	1,017,805	47,256	36,679	4.18	3.60
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and	35,826	36,365	2,766	2,933	7.72	8.07
securities loaned Subordinated debentures Other interest-bearing liabilities	374,099 12,641 25,166	352,282 11,036 37,639	25,479 775 722	20,433 666 1,151	6.81 6.13 2.87	5.80 6.03 3.06
Total interest-bearing liabilities Non-interest-bearing deposits Acceptances Other liabilities	1,579,004 185,758 9,138 215,342	1,455,127 193,815 19,954 227,143	76,998 - - -	61,862 - - -	4.88	4.25 - - -
Total liabilities		\$ 1,896,039	\$ 76,998	\$ 61,862	3.87%	3.26%
Equity	\$ 119,215		n.a.	n.a.	n.a.	n.a.
Total liabilities and shareholders' equity	\$ 2,108,457	\$ 2,004,426	\$ 76,998	\$ 61,862	3.65%	3.09%
Net interest income and margin	\$ 2,108,457	\$ 2,004,426	\$ 27,953	\$ 25,129	1.33%	1.25%
Net interest income and margin (average earning assets, net) (4) Canada U.S. Other International	\$ 1,088,773 526,059 197,401	\$ 970,243 497,556 208,221	\$ 22,281 4,268 1,404	\$ 18,752 5,065 1,312	2.05% 0.81 0.71	1.93% 1.02 0.63
Total	\$ 1,812,233	\$ 1,676,020	\$ 27,953	\$ 25,129	1.54%	1.50%

<sup>(1)</sup> Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023. Refer to Note 2 of our 2024 Annual Consolidated Financial Statements for further details on these changes.

<sup>(2)</sup> Interest income includes loan fees of \$1,165 million (2023 – \$1,149 million; 2022 – \$1,033 million).

<sup>(2)</sup> Deposits include personal chequing and savings deposits with average balances of \$254 billion (2023 – \$250 billion), interest expense of \$3,580 million (2023 – \$2,840 million; 2022 – \$712 million) and average rates of 1.41% (2023 – 1.44%; 2022 – 0.26%). Deposits also include term deposits with average balances of \$701 billion (2023 – \$624 billion; 2022 – \$500 billion), interest expense of \$31,520 million (2023 – \$24,260 million; 2022 – \$7,323 million) and average rates of 4.50% (2023 – 3.89%; 2022 – 1.46%).

<sup>(4)</sup> Geographic classification for selected assets and liabilities is based on the domicile of the booking point of the subject assets and liabilities.

n.a. not applicable

		2024 vs. 2023		Т		2023 v	23 vs. 2022				
	ln	crease (dec chanş					 Increase (de chan				
(Millions of Canadian dollars)	,	Average volume (1)		Average rate (1)	1	Net change	Average volume (1)		Average rate (1)		Net change
Assets											
Deposits with other banks											
Canada (2)	\$	(55)	\$	(175)	\$	(230)	\$ 22	\$	1,094	\$	1,116
U.S. (2)		(641)		583		(58)	76		2,976		3,052
Other international (2)		(609)		166		(443)	(66)		1,053		987
Securities		, ,				, ,	,				
Trading		1,056		(594)		462	690		2,021		2,711
Investment, net of applicable allowance		1,802		892		2,694	457		4,282		4,739
Asset purchased under reverse repurchase											
agreements and securities borrowed		770		4,187		4,957	351		16,366		16,717
Loans											
Canada (2)											
Retail (2)		1,853		3,948		5,801	752		7,964		8,716
Wholesale (2)		3,392		25		3,417	882		2,652		3,534
U.S. (2)		26		1,445		1,471	634		2,220		2,854
Other international (2)		36		(148)		(112)	47		1,747		1,794
Total interest income	\$	7,630	\$	10,329	\$	17,959	\$ 3,845	\$	42,375	\$	46,220
Liabilities											
Deposits											
Canada (2)		4,374		4,997		9,371	1,086		17,881		18,967
U.S. (2)		73		921		994	5		4,334		4,339
Other international (2)		(415)		626		211	(77)		2,699		2,622
Obligations related to securities sold short		(43)		(124)		(167)	(167)		691		524
Obligations related to assets sold under		` '		, ,		, ,	, ,				
repurchase agreements and securities loaned		1,265		3,781		5,046	502		15,580		16,082
Subordinated debentures		97		12		109	26		352		378
Other interest-bearing liabilities		(381)		(48)		(429)	114		782		896
Total interest expense	\$	4,970	\$	10,165	\$	15,135	\$ 1,489	\$	42,319	\$	43,808
Net interest income	\$	2,660	\$	164	\$	2,824	\$ 2,356	\$	56	\$	2,412

Volume/rate variance is allocated on the percentage relationships of changes in balances and changes in rates to the total net change in net interest income.
 Geographic classification for selected assets and liabilities is based on the domicile of the booking point of the subject assets and liabilities.

Loans and acceptances by geography		Table 73
As at October 31 (Millions of Canadian dollars)	2024	2023
Canada (1)		
Residential mortgages	\$ 441,191	\$ 397,605
Personal	86,977	79,705
Credit cards	24,619	22,140
Small business	15,531	13,681
Retail	568,318	513,131
Wholesale	189,413	143,475
	\$ 757,731	\$ 656,606
U.S. (1)		
Retail	51,893	50,058
Wholesale	119,231	119,068
	171,124	169,126
Other International (1)		
Retail	6,767	6,762
Wholesale	51,830	47,028
	58,597	53,790
Total loans and acceptances	\$ 987,452	\$ 879,522
Total allowance for credit losses	(6,037)	(5,054)
Total loans and acceptances, net of allowance for credit losses	\$ 981,415	\$ 874,468

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

Loans and acceptances by portfolio and sector			Table 74
As at October 31 (Millions of Canadian dollars)	2024	П	2023
Residential mortgages	\$ 477,544	\$	434,501
Personal	108,338	l i	98,734
Credit cards	25,565		23,035
Small business	15,531		13,681
Retail	\$ 626,978	\$	569,951
Agriculture	13,065		11,026
Automotive	14,386		11,503
Banking	8,829		7,146
Consumer discretionary	23,670		17,546
Consumer staples .	9,885		8,463
Oil and gas	6,362		6,421
Financial services	40,997		38,029
Financing products	18,161		13,683
Forest products	2,200		1,428
Governments	5,816		5,767
Industrial products	15,347		11,057
Information technology	5,788		5,096
Investments	21,454		18,212
Mining and metals	2,757		1,858
Public works and infrastructure	3,325		2,970
Real estate and related	102,885		90,981
Other services	31,758		27,048
Telecommunication and media	7,745		8,507
Transportation	10,450		8,038
Utilities	14,484		13,978
Other sectors	1,110		814
Wholesale	\$ 360,474	\$	309,571
Total loans and acceptances	\$ 987,452	\$	879,522
Total allowance for credit losses	(6,037)	)	(5,054)
Total loans and acceptances, net of allowance for credit losses	\$ 981,415	\$	874,468

Gross impaired loans by portfolio and geography		Table 75
As at October 31 (Millions of Canadian dollars, except for percentage amounts)	2024	2023
Residential mortgages	\$ 1,233	
Personal Small business	408 321	280 244
Retail	1,962	1,206
Agriculture Automotive	\$ 127 263	\$ 36 26
Banking	54	3
Consumer discretionary	401	315
Consumer staples Oil and gas	138	148 17
Financial services	120	85
Financing products	228	-
Forest products	147	9
Governments Industrial products	12 235	16 147
Information technology	74	26
Investments	82	96
Mining and metals Public works and infrastructure	3 11	1 15
Real estate and related	1,404	1,109
Other services	263	180
Telecommunication and media	105	186
Transportation Utilities	172 30	59
Other sectors	27	24
Wholesale (1)	3,905	2,498
Total GIL (2)	\$ 5,867	\$ 3,704
Canada (3)	, .,,,,,	
Residential mortgages	\$ 1,007	\$ 481
Personal	354	247
Small business	321	244
Retail	1,682	972
Agriculture	126	16
Automotive Banking	238 54	24
Consumer discretionary	298	195
Consumer staples	67	55
Oil and gas	9	17
Financial services Financing products	24 228	_
Forest products	147	9
Governments	10	13
Industrial products Information technology	137 38	42
Investments	21	20
Mining and metals	3	1
Public works and infrastructure	6	10
Real estate and related Other services	750 140	168 72
Telecommunication and media	15	4
Transportation	139	27
Utilities Other sectors	_ 1	_ 1
Wholesale	2,451	685
Total		
	\$ 4,133	\$ 1,657
U.S. (3) Retail	\$ 125	\$ 53
Wholesale	1,165	1,469
Total	\$ 1,290	
Other International (3)	+ 1,250	7 1,522
Retail	\$ 155	\$ 181
Wholesale	289	344
Total	\$ 444	\$ 525
Total GIL	\$ 5,867	\$ 3,704
Allowance on impaired loans	(1,516)	(1,148)
Net impaired loans	\$ 4,351	, ,
GIL as a % of loans and acceptances	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Residential mortgages	0.26%	0.16%
Personal Small business	0.38% 2.07%	0.28% 1.78%
Retail		
Retail Wholesale	0.31% 1.08%	0.21% 0.81%
Total		0.42%
	0.59%	
Allowance on impaired loans as a % of GIL	25.85%	31.00%

Includes \$109 million of purchased credit-impaired loans acquired in the HSBC Canada transaction.

Past due loans greater than 90 days not included in impaired loans were \$267 million in 2024 (2023 – \$257 million). For further details, refer to Note 5 of our 2024 Annual Consolidated Financial Statements.

Geographic information is based on residence of borrower. (2)

Provision for credit losses by portfolio and geography				Table 76
For the year ended October 31 (Millions of Canadian dollars, except for percentage amounts)		2024		2023
Residential mortgages	\$	86	\$	63
Personal	·	680		467
Credit cards Small business		670 150		460 61
Retail		1,586		1,051
	<u> </u>		<u>_</u>	
Agriculture Automotive	\$	24 115	\$	20 8
Banking		33		-
Consumer discretionary		97		143
Consumer staples		59		51
Oil and gas Financial services		(51) 19		11 10
Financing products		40		-
Forest products		48		5
Governments Industrial products		2 68		(1) 56
Information technology		21		12
Investments		3		15
Mining and metals		(1)		(1)
Public works and infrastructure Real estate and related		(6) 403		(3) 222
Other services		40		72
Telecommunication and media		42		85
Transportation Utilities		63		74
Other sectors		3 12		- 6
Wholesale		1,034		785
Total PCL on impaired loans	\$	2,620	\$	1,836
Canada (1)	<b>Y</b>	2,020		1,030
Residential mortgages	\$	96	\$	61
Personal		672		463
Credit cards		653		449
Small business		150		61
Retail		1,571		1,034
Agriculture Automotive		24 114		4 7
Banking		36		_
Consumer discretionary		86		101
Consumer staples		33		34
Oil and gas Financial services		(4) 11		(2)
Financing products		40		-
Forest products		48		5
Governments  Industrial products		2 61		(1) 16
Industrial products Information technology		18		2
Investments		1		8
Mining and metals		(1)		_
Public works and infrastructure Real estate and related		(6) 116		2 41
Other services		32		12
Telecommunication and media		8		1
Transportation		44		9
Utilities Other sectors		_		(1)
Wholesale		663		239
Total	\$	2,234	\$	1,273
U.S. (1)	Ψ	2,234	٧	1,275
Retail	\$	33	\$	17
Wholesale	·	366		509
Total	\$	399	\$	526
Other International (1)				
Retail	\$	(19)	\$	_
Wholesale		6		37
Total	\$	(13)		37
Total PCL on impaired loans	\$	2,620	\$	1,836
Total PCL on performing loans		627		660
Total PCL on other financial assets		(15)		(28)
Total PCL	\$	3,232	\$	2,468
PCL on loans as a % of average net loans and acceptances		0.35%		0.29%
PCL on impaired loans as a % of average net loans and acceptances (1)		0.26%		0.21%

<sup>(1)</sup> Geographic information is based on residence of borrower.

Allowance on loans by portfolio and geography (1)				Table 77
As at and for the year ended October 31 (Millions of Canadian dollars, except percentage amounts)		2024		2023
Allowance against impaired loans				
Canada (2)				
Residential mortgages	\$	163	\$	86
Personal		185		138
Small business		105		58
Retail	\$	453	\$	282
Agriculture	\$	26	\$	4
Automotive		104		5
Banking		34		1
Consumer discretionary		54		85
Consumer staples		40		30
Oil and gas		1		4
Financial services		11		1
Financing products		39		-
Forest products		45		3
Governments		1		_
Industrial products		57		18
Information technology		15		2
Investments		7		7
Mining and metals		1		1
Public works and infrastructure Real estate and related		5 127		5 41
Other services		26		5
Telecommunication and media		6		1
Transportation		44		8
Utilities				_
Other sectors		_		_
Wholesale	\$	643	\$	221
Total	\$	1,096	\$	503
U.S. (2)		,		
Retail	\$	19	\$	7
Wholesale	Ą	237	Ų	445
Total	\$	256	\$	452
Other International (2)	4			
Retail	\$	76	\$	92
Wholesale	•	88	7	101
Total	\$	164	\$	193
Total allowance on impaired loans	\$	1,516	\$	1,148
Allowance on performing loans				
Residential mortgages	\$	341	\$	313
Personal		1,272		1,073
Credit cards		1,232		1,069
Small business		166		136
Retail	\$	3,011	\$	2,591
Wholesale	\$	1,825	\$	1,609
Total allowance on performing loans	\$	4,836	\$	4,200
Total allowance on loans	\$	6,352	\$	5,348
Key ratios				
Allowance on loans as a % of loans and acceptances		0.64%		0.61%
Net write-offs as a % of average net loans and acceptances		0.22%		0.14%

Includes loans, acceptances, and commitments.
Geographic information is based on residence of borrower. (1) (2)

Credit quality information by Canadian province (1)		1	Table 78
As at and for the year ended October 31 (Millions of Canadian dollars)	2024		2023
Loans and acceptances			
Atlantic provinces (2)	\$ 35,501	\$	32,513
Quebec	86,426		76,204
Ontario	369,949		321,139
Alberta	82,860		76,018
Other Prairie provinces (3)	38,766		36,076
B.C. and territories (4)	144,229		114,656
Total loans and acceptances in Canada	\$ 757,731	\$	656,606
Gross impaired loans			
Atlantic provinces (2)	\$ 148	\$	122
Quebec	366		275
Ontario	2,219		689
Alberta	666		260
Other Prairie provinces (3)	181		137
B.C. and territories (4)	553		174
Total GIL in Canada	\$ 4,133	\$	1,657
PCL on impaired loans			
Atlantic provinces (2)	\$ 46	\$	52
Quebec	168		81
Ontario	1,510		901
Alberta	217		99
Other Prairie provinces (3)	80		55
B.C. and territories (4)	213		85
Total PCL on impaired loans in Canada	\$ 2,234	\$	1,273

<sup>(1)</sup> (2) (3)

Geographic information is based on residence of borrower.
Comprises Newfoundland and Labrador, Prince Edward Island, Nova Scotia and New Brunswick.
Comprises Manitoba and Saskatchewan.
Comprises British Columbia, Nunavut, Northwest Territories and Yukon.

# Glossary

Adjusted Results and Measures We believe that providing adjusted results as well as certain measures and ratios enhances well as certain measures and ratios enhances comparability with prior periods and enables readers to better assess trends in the underlying businesses. For further details, including a reconciliation, refer to the Key performance and non-GAAP measures section.

• Adjusted effective income tax rate – calculated as effective income tax rate excluding the impact of specified items and amortization of acquisition-related intangibles.

intangibles. Adjusted income before income taxes -Adjusted income before income taxes – calculated as income before income taxes excluding the impact of specified items and amortization of acquisition-related intangibles.

Adjusted income taxes – calculated as income taxes excluding the impact of specified items and amortization of acquisition-related intangibles.

Adjusted net income – calculated as net income excluding the impact of specified items and amortization of acquisition-related intangibles.

related intangibles.

Adjusted net income available to common shareholders – calculated as net income available to common. shareholders excluding the impact of

snateholders excluding the impact of specified items and amortization of acquisition-related intangibles.

Adjusted non-interest expense – calculated as non-interest expense excluding the impact of specified items and amortization of acquisition-related intangibles. intangibles

Adjusted total revenue – calculated as total revenue excluding the impact of specified items.

Acceptances
A bill of exchange or negotiable instrument drawn by the borrower for payment at maturity and accepted by a bank. The acceptance constitutes a guarantee of payment by the bank and can be traded in the money market. The bank earns a "stamping fee" for providing this guarantee.

Allowance for credit losses (ACL)
The amount deemed adequate by
management to absorb expected credit losses management to absorb expected credit losses as at the balance sheet date. The allowance is established for all financial assets subject to impairment assessment, including certain loans, debt securities, customers liability under acceptances, financial guarantees, and undrawn loan commitments. The allowance is changed by the amount of provision for credit losses recorded, which is charged to income, and decreased by the amount of write-offs net of recoveries in the period.

ACL on loans ratio

ACL on loans ratio is calculated as ACL on loans as a percentage of total loans and acceptances.

**Asset-backed securities (ABS)** Securities created through the securitization of a pool of assets, for example auto loans or credit card loans.

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

Assets under management (AUM)

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

Attributed capital
Attributed capital to our business segments is based on the Basel III regulatory capital and leverage requirements other than for our insurance segment for which we attribute capital based only on economic capital.

Auction rate securities (ARS)

Debt securities whose interest rates are regularly reset through an auction process.

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

**Basis point (bp)**One one-hundredth of a percentage point (.01%).

Collateral

Assets pledged as security for a loan or other obligation. Collateral can take many forms, such as cash, highly rated securities, property, inventory, equipment and receivables.

Collateralized debt obligation (CDO) Securities with multiple tranches that are issued by structured entities and collateralized by debt obligations including bonds and loans. Each tranche offers a varying degree of risk and return so as to meet investor demand.

Commercial mortgage-backed securities

(CMBS) Securities created through the securitization of commercial mortgages.

Commitments to extend credit
Unutilized amount of credit facilities available
to clients either in the form of loans, bankers'
acceptances and other on-balance sheet
financing, or through off-balance sheet
products such as guarantees and letters of
credit

Common Equity Tier 1 (CET1) capital
A regulatory Basel III capital measure
comprised mainly of common shareholders'
equity less regulatory deductions and
adjustments for goodwill and intangibles,
defined benefit pension fund assets, shortfall
in allowances and other specified items. The in allowances and other specified items. The CETI capital is calculated in accordance with OSFI's CAR guideline. For more details, refer to the Capital management section.

Common Equity Tier 1 capital ratio A risk-based capital measure calculated as CET1 capital divided by risk-weighted assets. The CET1 ratio is calculated in accordance with OSFI's CAR guideline.

Contractual service margin (CSM)
For insurance contracts, the CSM represents the unearned profit (net inflows) for providing insurance coverage. For reinsurance contracts held, the CSM represents the net cost or net gain of purchasing reinsurance.

**Covered bonds**Full recourse on-balance sheet obligations run recourse on-barance sneet obligations issued by banks and credit institutions that are fully collateralized by assets over which investors enjoy a priority claim in the event of an issuer's insolvency.

Credit default swaps (CDS) A derivative contract that provides the purchaser with a one-time payment should the referenced entity/entities default (or a similar triggering event occur).

Derivative

Derivative
A contract between two parties, which requires little or no initial investment and where payments between the parties are dependent upon the movements in price of an underlying instrument, index or financial rate. Examples of derivatives include swaps, options, forward rate agreements and futures. The notional amount of the derivative is the contract amount used as a reference point to contract amount used as a reference point to calculate the payments to be exchanged between the two parties, and the notional amount itself is generally not exchanged by the parties.

**Dividend payout ratio**Common dividends as a percentage of net income available to common shareholders.

Dividend yield

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

Earnings per share (EPS), basic Calculated as net income available to common shareholders divided by the average number of shares outstanding. Adjusted EPS, basic is calculated in the same manner, using adjusted net income available to common shareholders.

Earnings per share (EPS), diluted
Calculated as net income available to common shareholders divided by the average number of shares outstanding adjusted for the dilutive effects of stock options and other convertible securities. Adjusted EPS, diluted is calculated in the same manner, using adjusted net income available to common shareholders.

Efficiency ratio

Non-interest expense as a percentage of total revenue. Adjusted efficiency ratio is calculated in the same manner, using adjusted non-interest expense and adjusted total revenue.

**Expected credit losses** The difference between the contractual cash flows due to us in accordance with the relevant contractual terms and the cash flows that we expect to receive, discounted to the balance sheet date.

Fair value

Fair value of a financial instrument is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Funding valuation adjustment
Funding valuation adjustments are calculated
to incorporate cost and benefit of funding in
the valuation of uncollateralized and undercollateralized OTC derivatives. Future expected confiderunized OTC derivatives, a table expected cash flows of these derivatives are discounted to reflect the cost and benefit of funding the derivatives by using a funding curve, implied volatilities and correlations as inputs.

Guarantees and standby letters of credit These primarily represent irrevocable assurances that a bank will make payments in the event that its client cannot meet its financial obligations to third parties. Certain other guarantees, such as bid and performance bonds, represent non-financial undertakings.

Hedge A risk management technique used to mitigate A risk management technique used to mitigate exposure from market, interest rate or foreign currency exchange risk arising from normal banking operations. The elimination or reduction of such exposure is accomplished by establishing offsetting positions. For example, assets denominated in foreign currencies can be offset with liabilities in the same currencies or through the use of foreign exchange hedging instruments such as futures, ontions hedging instruments such as futures, options or foreign exchange contracts.

Hedge funds

A type of investment fund, marketed to A type of investment rund, marketed to accredited high net worth investors, that is subject to limited regulation and restrictions on its investments compared to retail mutual funds, and that often utilize aggressive strategies such as selling short, leverage, program trading, swaps, arbitrage and derivatives.

High-quality liquid assets (HQLA)
HQLA are cash or assets that can be converted
into cash quickly through sales (or by being
pledged as collateral) with no significant loss

Impaired loans

Impaired loans
Loans are classified as impaired when there
has been a deterioration of credit quality to
the extent that management no longer has
reasonable assurance of timely collection of
the full amount of principal and interest in
accordance with the contractual terms of the
loan agreement. Credit card balances are not classified as impaired as they are directly written off after payments are 180 days past

Insurance contracts

Contracts under which we accept significant insurance risk from a policyholder by agreeing to compensate the policyholder if a specified uncertain future event adversely affects the policyholder. Insurance contracts also include reinsurance contracts issued by us to compensate another company for claims arising from underlying insurance contracts issued by that other company.

Insurance investment result

Calculated as Net investment income from the Insurance segment, Insurance finance income (expense) from insurance contracts and Reinsurance finance income (expense) from reinsurance contracts held.

Insurance service result

Calculated as Insurance revenue less Insurance service expense from insurance contracts and Net income (expense) from reinsurance contracts held.

# International Financial Reporting Standards

IFRS are principles-based standards, interpretations and the framework adopted by the International Accounting Standards Board.

Leverage ratio
A Basel III regulatory measure, the ratio
divides Tier 1 capital by the leverage exposure
measure. The leverage ratio is a non-risk
based measure and is calculated in accordance with OSFI's LR guideline.

Leverage ratio exposure
The leverage ratio exposure is calculated in
accordance with OSFI's LR guideline and is
defined as the sum of total assets plus off-balance sheet items after certain adjustments.

**Liquidity Coverage Ratio (LCR)**The LCR is a Basel III standard that aims to ensure that an institution has an adequate stock of unencumbered HQLA that consists of cash or assets that can be converted into cash at little or no loss of value in private markets, to meet its liquidity needs for a 30 calendar day liquidity stress scenario. The LCR is calculated in accordance with OSFI's LAR guideline.

Loan-to-value (LTV) ratio Calculated based on the total facility amount for the residential mortgage and RBC Homeline Plan product divided by the value of the related residential property.

Master netting agreement
An agreement between us and a counterparty designed to reduce the credit risk of multiple derivative transactions through the creation of a legal right of offset of exposure in the event of a default.

Net interest income

The difference between what is earned on assets such as loans and securities and what is paid on liabilities such as deposits and subordinated debentures.

Net interest margin (NIM) on average earning assets, net Calculated as net interest income divided by

average earning assets, net.

Net Stable Funding Ratio (NSFR)
The NSFR is a Basel III standard that requires institutions to maintain a stable funding profile defined as available amount of stable funding (ASF) in relation to the composition of their assets and off-balance sheet activities defined as required amount of stable funding (RSF). The ratio should be at least equal to 100% on an angoing basis. The NSFR is 100% on an ongoing basis. The NSFR is calculated in accordance with OSFI's LAR guideline.

Normal course issuer bid (NCIB) A program for the repurchase of our own shares for cancellation through a stock exchange that is subject to the various rules of the relevant stock exchange and securities commission.

Notional amount

The contract amount used as a reference point to calculate payments for derivatives.

Off-balance sheet financial instruments
A variety of arrangements offered to clients, which include credit derivatives, written put options, backstop liquidity facilities, stable value products, financial standby letters of credit, performance guarantees, credit enhancements, commitments to extend credit, securities lending, documentary and commercial letters of credit, sponsor member guarantees, securities lending indemnifications and indemnifications.

Office of the Superintendent of Financial Institutions Canada (OSFI)
The primary regulator of federally chartered financial institutions and federally administered pension plans in Canada. OSFI's mission is to safeguard policyholders, depositors and pension plan members from undue loss.

Operating leverage

The difference between our revenue growth rate and non-interest expense growth rate.

Options
A contract or a provision of a contract that gives one party (the option holder) the right, but not the obligation, to perform a specified transaction with another party (the option issuer or option writer) according to specified

**Provision for credit losses (PCL)** The amount charged to income necessary to bring the allowance for credit losses to a level determined appropriate by management. This includes provisions on performing and impaired financial assets.

**PCL on loans ratio** PCL on loans ratio is calculated using PCL on loans as a percentage of average net loans and acceptances.

**RBC Homeline Plan products**This is comprised of residential mortgages and secured personal loans whereby the borrower pledges real estate as collateral.

Reinsurance contracts held

Contracts under which we transfer significant insurance risk to a reinsurer that compensates us for claims relating to underlying insurance contracts issued by us and are accounted for separately from the underlying insurance contracts to which they relate.

Repurchase agreements
These involve the sale of securities for cash and the simultaneous repurchase of the securities for value at a later date. These transactions normally do not constitute economic sales and therefore are treated as collateralized financing transactions.

Return on common equity (ROE) Net income available to common

shareholders, expressed as a percentage of average common equity. ROE is based on actual balances of average common equity before rounding. Adjusted ROE is calculated in the same manner, using adjusted net income available to common shareholders.

**Reverse repurchase agreements** These involve the purchase of securities for cash and the simultaneous sale of the securities for value at a later date. These transactions normally do not constitute economic sales and therefore are treated as collateralized financing transactions.

Risk-weighted assets (RWA)
Assets adjusted by a regulatory risk-weight factor to reflect the riskiness of on- and off-balance sheet exposures. Certain assets are not risk-weighted, but deducted from capital. The calculation is defined by OSFI's CAR guideline. For more details, refer to the Capital management section.

Securities lending
Transactions in which the owner of securities agrees to lend it under the terms of a prearranged contract to a borrower for a fee.
Collateral for the loan consists of either high quality securities or cash and collateral value must be at least equal to the market value of the loaned securities. Borrowers pay a negotiated fee for loans collateralized by securities, whereas for cash collateral lenders pay borrowers interest at a negotiated rate and reinvest the cash collateral to earn a and reinvest the cash collateral to earn a return. An intermediary such as a bank often acts as agent lender for the owner of the security in return for a share of the revenue earned by the owner from lending securities. Most often, agent lenders indemnify the owner against the risk of the borrower's failure to redeliver the loaned securities – counterparty credit risk if a borrower defaults and market risk if the value of the non-cash collateral risk if the value of the non-cash collateral declines. The agent lender does not indemnify against the investment risk of re-investing cash collateral which is borne by the owner.

Securities sold short

A transaction in which the seller sells securities and then borrows the securities in order to deliver them to the purchaser upon settlement. At a later date, the seller buys identical securities in the market to replace the borrowed securities.

Securitization

The process by which various financial assets are packaged into newly issued securities backed by these assets.

**Standardized Approach (SA) for credit risk** Risk weights prescribed by OSFI are used to calculate RWA for the credit risk exposures. calculate RWA for the Credit risk exposures. Credit assessments by OSFI-recognized external credit rating agencies of Standard & Poor's Financial Services LLP; Moody's Investors Service; Fitch Ratings, Inc.; DBRS and Kroll Bond Rating Agency, Inc. are used to risk-weight our Sovereign and Bank exposures based on the standards and guidelines issued by OSFI by OSFI.

Structured entities

A structured entities
A structured entity is an entity in which voting or similar rights are not the dominant factor in deciding who controls the entity, such as when the activities that significantly affect the entity's returns are directed by means of contractual arrangements. Structured entities often have restricted activities, narrow and well defined objectives, insufficient activity. well defined objectives, insufficient equity to finance their activities, and financing in the form of multiple contractually-linked

Taxable equivalent basis (teb)
Income from certain specified tax advantaged sources (U.S. tax credit investment business as well as eligible Canadian taxable corporate dividends received on or before December 31, 2022) is increased to a least the taxable state. 2023) is increased to a level that would make it comparable to income from taxable sources. There is an offsetting adjustment in the tax provision, thereby generating the same after-tax net income.

**Tier 1 capital and Tier 1 capital ratio**Tier 1 capital comprises predominantly of CET1 capital, with additional Tier 1 items such as referred shares, limited recourse capital notes and non-controlling interests in subsidiaries Tier 1 instruments. The Tier 1 capital ratio is calculated in accordance with OSFI's CAR guideline by dividing Tier 1 capital by risk-weighted assets.

**Tier 2 capital**Tier 2 capital consists mainly of subordinated debentures that meet certain criteria, certain loan loss allowances and non-controlling interests in subsidiaries' Tier 2 instruments.

Total loss absorbing capacity (TLAC)
The aggregate of Tier 1 capital, Tier 2 capital, and external TLAC instruments which allow conversion in whole or in part into common shares under the Canada Deposit Insurance Corporation Act and meet all of the eligibility criteria under the guideline.

TLAC ratio
The risk-based TLAC ratio is defined as TLAC divided by total risk-weighted assets. The TLAC ratio is calculated in accordance with OSFI's TLAC guideline.

TLAC leverage ratio
The TLAC leverage ratio is defined as TLAC
divided by the leverage ratio exposure. The
TLAC leverage ratio is calculated in
accordance with OSFI's TLAC guideline.

**Total capital and total capital ratio**Total capital is defined as the total of Tier 1 and Tier 2 capital. The total capital ratio is calculated in accordance with OSFI's CAR guideline by dividing total capital by riskweighted assets.

Tranche

returns associated with a pool of assets are packaged into several classes of securities offering different risk and return profiles from those of the underlying asset pool. Tranches are typically rated by ratings agencies, and reflect both the credit quality of underlying collateral as well as the level of protection based on the tranches' relative subordination.

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

Value-at-Risk (VaR)
A generally accepted risk-measurement concept that uses statistical models based on historical information to estimate within a given level of confidence the maximum loss in market value we would experience in our financial portfolio from an adverse one-day movement in market rates and prices.

#### **EDTF** recommendations index

We aim to present transparent, high-quality risk disclosures by providing disclosures in this 2024 Annual Report and Supplementary Financial Information package (SFI), and Pillar 3 Report, in accordance with recommendations from the FSB's Enhanced Disclosure Task Force (EDTF). Information within the SFI and Pillar 3 Report is not and should not be considered incorporated by reference into this 2024 Annual Report.

The following index summarizes our disclosure by EDTF recommendation:

		_	Location of disclosu	ге
Type of Risk	Recommendation	Disclosure	Annual Report page	SFI page
	1	Table of contents for EDTF risk disclosure	140	1
	2	Define risk terminology and measures	69-75, 137-139	_
General	3	Top and emerging risks	66-69	_
	4	New regulatory ratios	114-120	_
Risk governance,	5	Risk management organization	69-75	_
risk management	6	Risk culture	69-75	_
and business	7	Risk in the context of our business activities	124	_
model	8	Stress testing	73, 85	
	9	Minimum Basel III capital ratios and Domestic systemically important bank surcharge	114-120	-
	10	Composition of capital and reconciliation of the accounting balance sheet to the regulatory balance sheet	-	*
Capital adequacy	11	Flow statement of the movements in regulatory capital	-	19
and risk-weighted	12	Capital strategic planning	114-120	_
assets (RWA)	13	RWA by business segments	_	20
	14	Analysis of capital requirement, and related measurement model information	75-79	*
	15	RWA credit risk and related risk measurements	-	*
	16	Movement of RWA by risk type	_	20
	17	Basel back-testing	72, 75-77	31
Liquidity	18	Quantitative and qualitative analysis of our liquidity reserve	92-93, 98-99	-
Funding	19	Encumbered and unencumbered assets by balance sheet category, and contractual	94, 97	-
	20	obligations for rating downgrades Maturity analysis of consolidated total assets, liabilities and off-balance sheet commitments analyzed by remaining contractual maturity at the balance sheet date	101-102	-
	21	Sources of funding and funding strategy	94-96	-
	22	Relationship between the market risk measures for trading and non-trading portfolios and the balance sheet	89-90	-
	23	Decomposition of market risk factors	85-90	_
Market risk	24	Market risk validation and back-testing	85	_
		Primary risk management techniques	85-88	_
	25	beyond reported risk measures and parameters		
		'		
Credit risk	26	Bank's credit risk profile Quantitative summary of aggregate credit risk exposures that reconciles to the balance sheet	75-85, 187-194 131-136	21-31*
	27	Policies for identifying impaired loans	77-79, 126, 157-160	_
	28	Reconciliation of the opening and closing balances of impaired loans and	<u> </u>	23, 28
	29	impairment allowances during the year Quantification of gross notional exposure for OTC derivatives or exchange-traded derivatives	80	32
	30	Credit risk mitigation, including collateral held for all sources of credit risk	78-79	*

<sup>\*</sup> These disclosure requirements are satisfied or partially satisfied by disclosures provided in our Pillar 3 Report for the quarter ended October 31, 2024 and for the year ended October 31, 2023.

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229	Note 20	Share-based compensation			
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234	Note 23	Guarantees, commitments, pledged assets and contingencies			
236	Note 24	Legal and regulatory matters			
238	Note 25	Related party transactions			
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#### Management's Responsibility for Financial Reporting

The accompanying consolidated financial statements of Royal Bank of Canada were prepared by management, which is responsible for the integrity and fairness of the information presented, including the many amounts that must of necessity be based on estimates and judgments. These consolidated financial statements were prepared in accordance with the Bank Act (Canada) and International Financial Reporting Standards as issued by the International Accounting Standards Board. Financial information appearing throughout our Management's Discussion and Analysis is consistent with these consolidated financial statements.

Our internal controls are designed to provide reasonable assurance that transactions are authorized, assets are safeguarded and proper records are maintained. These controls include quality standards in hiring and training of employees, policies and procedures manuals, a corporate code of conduct and accountability for performance within appropriate and well-defined areas of responsibility.

The system of internal controls is further supported by a compliance function, which is designed to ensure that we and our employees comply with securities legislation and conflict of interest rules, and by an internal audit staff, which conducts periodic audits of all aspects of our operations.

The Board of Directors oversees management's responsibilities for financial reporting through an Audit Committee, which is composed entirely of independent directors. This Committee reviews our consolidated financial statements and recommends them to the Board for approval. Other key responsibilities of the Audit Committee include reviewing our existing internal control procedures and planned revisions to those procedures, and advising the directors on auditing matters and financial reporting issues. Our Chief Compliance Officer and Chief Internal Auditor have full and unrestricted access to the Audit Committee.

The Office of the Superintendent of Financial Institutions Canada (OSFI) examines and inquires into our business and affairs as deemed necessary to determine whether the provisions of the *Bank Act* are being complied with, and that we are in sound financial condition. In carrying out its mandate, OSFI strives to protect the rights and interests of our depositors and creditors.

PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm appointed by our shareholders upon the recommendation of the Audit Committee and Board, has performed an independent audit of the consolidated financial statements in accordance with Canadian generally accepted auditing standards and the standards of the Public Company Accounting Oversight Board (United States) as stated in their Independent Auditor's Report and Report of Independent Registered Public Accounting Firm, respectively. The auditors have full and unrestricted access to the Audit Committee to discuss their audit and related findings.

David I. McKay President and Chief Executive Officer

Katherine Gibson Chief Financial Officer

Toronto, December 3, 2024

# Management's Report on Internal Control over Financial Reporting

Management of Royal Bank of Canada is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is a process designed by, or under the supervision of, the President and Chief Executive Officer and Chief Financial Officer and effected by the Board of Directors, management and other personnel to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board. It includes those policies and procedures that:

- Pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions related to and dispositions of our assets:
- Provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and our receipts and expenditures are made only in accordance with authorizations of our management and directors; and
- Provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of our assets that could have a material effect on our financial statements.

Due to its inherent limitations, internal control over financial reporting may not prevent or detect misstatements on a timely basis. Also, projections of any evaluation of the effectiveness of internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management evaluated, under the supervision of and with the participation of the President and Chief Executive Officer and Chief Financial Officer, the effectiveness of our internal control over financial reporting as of October 31, 2024, based on the criteria set forth in *Internal Control – Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that, as of October 31, 2024, internal control over financial reporting was effective based on the criteria established in the *Internal Control – Integrated Framework* (2013).

The effectiveness of our internal control over financial reporting as of October 31, 2024, has been audited by PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm, as stated in their Report of Independent Registered Public Accounting Firm, which appears herein.

David I. McKay President and Chief Executive Officer

Katherine Gibson Chief Financial Officer

Toronto, December 3, 2024

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# Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors of Royal Bank of Canada

#### Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Royal Bank of Canada and its subsidiaries (together, the Bank) as of October 31, 2024 and 2023, and the related consolidated statements of income, comprehensive income, changes in equity and cash flows for the years then ended, including the related notes (collectively referred to as the consolidated financial statements). We also have audited the Bank's internal control over financial reporting as of October 31, 2024, based on criteria established in *Internal Control – Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Bank as of October 31, 2024 and 2023, and its financial performance and its cash flows for the years then ended in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board. Also in our opinion, the Bank maintained, in all material respects, effective internal control over financial reporting as of October 31, 2024, based on criteria established in *Internal Control – Integrated Framework* (2013) issued by the COSO.

#### Change in Accounting Principle

As discussed in note 2 to the consolidated financial statements, the Bank has changed its method of accounting for insurance contracts in 2024.

#### **Basis for Opinions**

The Bank's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express opinions on the Bank's consolidated financial statements and on the Bank's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Bank in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

#### Definition and Limitations of Internal Control over Financial Reporting

An entity's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. An entity's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the entity; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the entity are being made only in accordance with authorizations of management and directors of the entity; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the entity's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

#### Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Allowance for Credit Losses on Loans Categorized as Stage 1 and Stage 2 (Stage 1 and Stage 2 ACL)
As described in Notes 2 and 5 to the consolidated financial statements, the Bank's allowance for credit losses on loans was \$6,352 million as of October 31, 2024 and represents management's estimate of expected credit losses on loans as of the balance sheet date, of which a significant portion relates to loans categorized as Stage 1 and Stage 2. Performing loans are categorized as

Stage 1 from initial recognition to the date on which the loan has experienced a significant increase in credit risk relative to its initial recognition. Performing loans transfer into Stage 2 following a significant increase in credit risk relative to the initial recognition. Loans are categorized as Stage 3 when considered to be credit-impaired. As disclosed by management, the measurement of expected credit losses on loans is a complex calculation that involves a significant number of interrelated inputs and assumptions such as borrower risk ratings, forward-looking macroeconomic conditions, scenario design and the weight assigned to each scenario. The probability of default, loss given default and exposure at default inputs are modelled based on the macroeconomic variables that are most closely correlated with credit losses. Management's estimation of expected credit losses on loans categorized as Stage 1 and Stage 2 considers five distinct future macroeconomic scenarios, each of which includes a forecast of relevant macroeconomic variables, designed to capture a wide range of possible outcomes and which are probability-weighted according to management's expectation of the relative likelihood of the range of outcomes that each scenario represents at the reporting date. Significant management judgment is required in making assumptions and estimations when calculating the Stage 1 and Stage 2 ACL.

The principal considerations for our determination that performing procedures relating to the Stage 1 and Stage 2 ACL is a critical audit matter are (i) the significant judgment required by management when estimating the Stage 1 and Stage 2 ACL; (ii) a high degree of auditor judgment and subjectivity in performing procedures related to management's assumptions for (a) designing future macroeconomic scenarios, (b) forecasting certain macroeconomic variables, (c) probability-weighting scenarios, and (d) assigning borrower risk ratings; (iii) the significant audit effort necessary to evaluate audit evidence as the estimation of the Stage 1 and Stage 2 ACL is a complex calculation that involves a large volume of data, interrelated inputs and assumptions, some of which are model-based; and (iv) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the estimation of the Stage 1 and Stage 2 ACL, including controls over (i) the probability of default, loss given default and exposure at default models; (ii) the design of future macroeconomic scenarios, the forecasting of certain macroeconomic variables, and the probability-weighting of these scenarios; (iii) the assignment of borrower risk ratings; and (iv) the completeness and accuracy of certain data inputs underlying the Stage 1 and Stage 2 ACL calculation. These procedures also included, among others, testing management's process for estimating the Stage 1 and Stage 2 ACL. This consisted of (i) testing the completeness and accuracy of certain underlying data used in the estimation of the Stage 1 and Stage 2 ACL; and (ii) with the assistance of professionals with specialized skill and knowledge, evaluating (a) the appropriateness of the probability of default, loss given default and exposure at default models used in the estimation of the Stage 1 and Stage 2 ACL, and (b) the reasonableness of significant inputs and assumptions used in the estimation of the Stage 1 and Stage 2 ACL related to (1) the design of future macroeconomic scenarios, (2) certain forecasted macroeconomic variables, (3) the probability-weights assigned to these scenarios, and (4) the assignment of borrower risk ratings for samples of loans.

#### **Uncertain Tax Positions**

As described in Note 2 to the consolidated financial statements, the Bank is subject to income tax laws in various jurisdictions where it operates and the complex tax laws are potentially subject to different interpretations by management and the relevant taxation authorities. As disclosed by management, significant judgment is required in the interpretation of the relevant tax laws, and in assessing the probability of acceptance of the Bank's tax positions to determine tax provisions, which includes management's estimate of uncertain tax positions that are under audit or appeal by the relevant taxation authorities. Management performs a review on a quarterly basis to incorporate its assessment based on information available, but additional liability and income tax expense could result based on the acceptance of the Bank's tax positions by the relevant taxation authorities. In some cases, as described in Note 21 to the consolidated financial statements, the Bank has received reassessments denying the tax deductibility of dividends from certain transactions including those with Tax Indifferent Investors.

The principal considerations for our determination that performing procedures relating to uncertain tax positions is a critical audit matter are (i) the significant judgment required by management, including a high degree of estimation uncertainty, when (a) interpreting the relevant tax laws, and (b) assessing the probability of acceptance of the Bank's tax positions, which includes management's estimate of uncertain tax positions that are under audit or appeal by the relevant taxation authorities; (ii) a high degree of auditor judgment and subjectivity in evaluating the uncertain tax positions; and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the evaluation of uncertain tax positions and the impact on tax provisions. These procedures also included, among others, testing management's process for (i) assessing the probability of acceptance of the Bank's tax positions; and (ii) estimating provisions relating to uncertain tax positions, if applicable, which reflects management's estimate of uncertain tax positions that are under audit or appeal by the relevant taxation authorities. This consisted of (i) reviewing correspondence with relevant taxation authorities; (ii) evaluating the appropriateness of the methods used; (iii) testing the completeness and accuracy of underlying data used in the estimate; (iv) making inquiries of the Bank's internal and external legal counsel; and (v) evaluating, with the assistance of professionals with specialized skill and knowledge, the application of relevant tax laws, the reasonableness of management's assessment of whether it is probable that the relevant taxation authorities will accept the Bank's tax positions, and evidence used by management.

/s/ PricewaterhouseCoopers LLP

Chartered Professional Accountants, Licensed Public Accountants Toronto, Canada December 3, 2024

We have served as the Bank's auditor since 2016.

# Consolidated Balance Sheets

	As	at
	October 31	October 31
(Millions of Canadian dollars)	2024	2023 (Restated – Note 2)
Assets		(Nestates Note 2)
Cash and due from banks	\$ 56,723	\$ 61,989
Interest-bearing deposits with banks	66,020	71,086
Securities (Note 4)		
Trading	183,300	190,151
Investment, net of applicable allowance	256,618	219,579
	439,918	409,730
Assets purchased under reverse repurchase agreements and securities borrowed	350,803	340,191
Loans (Note 5)		
Retail	626,978	569,951
Wholesale	360,439	287,826
Allowance for loan losses (Note 5)	987,417 (6,037)	857,777 (5,004)
	981,380	852,773
Other	701,300	032,773
Customers' liability under acceptances	35	21,695
Derivatives (Note 9)	150,612	142,450
Premises and equipment (Note 10)	6,852	6,749
Goodwill (Note 11) Other intangibles (Note 11)	19,286 7,798	12,594 5,903
Other assets (Note 13)	92,155	81,371
	276,738	270,762
Total assets	\$ 2,171,582	\$ 2,006,531
Liabilities and equity		
Deposits (Note 14)		
Personal	\$ 522,139	\$ 441,946
Business and government Bank	839,670 47,722	745,075 44,666
DUTK	1,409,531	1,231,687
Other	1,407,331	1,231,007
Acceptances	35	21,745
Obligations related to securities sold short	35,286	33,651
Obligations related to assets sold under repurchase agreements and securities loaned	305,321	335,238
Derivatives (Note 9) Insurance contract liabilities (Note 15)	163,763 22,231	142,629 19,026
Other liabilities (Note 17)	94,677	96,022
	621,313	648,311
Subordinated debentures (Note 18)	13,546	11,386
Total liabilities	2,044,390	1,891,384
Equity attributable to shareholders		
Preferred shares and other equity instruments (Note 19)	9,031	7,314
Common shares (Note 19)	20,952	19,167
Retained earnings	88,608	81,715
Other components of equity	8,498	6,852
Non-controlling interests	127,089 103	115,048 99
Non-controlling interests  Total equity		
Total liabilities and equity	127,192	115,147
Total liabilities and equity	\$ 2,171,582	\$ 2,006,531

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

David I. McKay President and Chief Executive Officer Frank Vettese Director

# Consolidated Statements of Income

	For the y	ear ended
	October 31	October 31
(Million of Condition dellars supplied to the condition of the condition o	2024	2023
(Millions of Canadian dollars, except per share amounts)		(Restated – Note 2)
Interest and dividend income (Note 3)	ć F4.040	ć 42.462
Loans Securities	\$ 54,040 17,668	\$ 43,463 14,512
Assets purchased under reverse repurchase agreements and securities borrowed	27,121	22,164
Deposits and other	6,122	6,852
	104,951	86,991
	104,931	80,991
Interest expense (Note 3)	47.256	26.670
Deposits and other Other liabilities	47,256	36,679
Subordinated debentures	28,967 775	24,517 666
Subordiffaced dependares		
	76,998	61,862
Net interest income	27,953	25,129
Non-interest income		
Insurance service result (Note 15)	777	703
Insurance investment result (Note 15)	294	156
Trading revenue	2,327	2,392
Investment management and custodial fees	9,325	8,344
Mutual fund revenue	4,437	4,063
Securities brokerage commissions Service charges	1,660 2,294	1,463 2,099
Underwriting and other advisory fees	2,672	2,099
Foreign exchange revenue, other than trading	1,142	1,292
Card service revenue	1,273	1,240
Credit fees	1,592	1,489
Net gains on investment securities	170	193
Income (loss) from joint ventures and associates (Note 12)	(16)	(219)
Other	1,444	1,115
	29,391	26,335
Total revenue	57,344	51,464
Provision for credit losses (Notes 4 and 5)	3,232	2,468
Non-interest expense		
Human resources (Notes 16 and 20)	21,083	18,853
Equipment	2,537	2,381
Occupancy	1,805	1,619
Communications	1,369	1,261
Professional fees	2,525	2,171
Amortization of other intangibles (Note 11)	1,549	1,471
Other	3,382	3,057
	34,250	30,813
Income before income taxes	19,862	18,183
Income taxes (Note 21)	3,622	3,571
Net income	\$ 16,240	\$ 14,612
Net income attributable to:	6 16 222	ć 14.00F
Shareholders	\$ 16,230	\$ 14,605
Non-controlling interests	10	7
	\$ 16,240	\$ 14,612
Basic earnings per share (in dollars) (Note 22)	\$ 11.27	\$ 10.33
Diluted earnings per share (in dollars) (Note 22)	11.25	10.32
Dividends per common share (in dollars)	5.60	5.34

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

# $Consolidated \, Statements \, of \, Comprehensive \, Income$

	For the ye	ar ende	d
(Millions of Canadian dollars)	October 31 2024	(Resto	October 31 2023 ated – Note 2)
Net income	\$ 16,240	\$	14,612
Other comprehensive income (loss), net of taxes (Note 21) 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 Provision for credit losses recognized in income	1,104 (1)		(14) (14)
Reclassification of net losses (gains) on debt securities and loans at fair value through other comprehensive income to income	(140)		(131)
	963		(159)
Foreign currency translation adjustments Unrealized foreign currency translation gains (losses) Net foreign currency translation gains (losses) from hedging activities Reclassification of losses (gains) on foreign currency translation to income Reclassification of losses (gains) on net investment hedging activities to income	1,029 (514) - 1		2,148 (1,208) (160) 146
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	516		926
Net change in cash flow hedges  Net gains (losses) on derivatives designated as cash flow hedges  Reclassification of losses (gains) on derivatives designated as cash flow hedges to	338		216
income	(827)		146
	(489)		362
Items that will not be reclassified subsequently to income:  Remeasurement gains (losses) on employee benefit plans (Note 16)  Net gains (losses) from fair value changes due to credit risk on financial liabilities	531		(344)
designated at fair value through profit or loss  Net gains (losses) on equity securities designated at fair value through other	(1,041)		(576)
comprehensive income	117		44
	(393)		(876)
Total other comprehensive income (loss), net of taxes	597		253
Total comprehensive income (loss)	\$ 16,837	\$	14,865
Total comprehensive income attributable to: Shareholders Non-controlling interests	\$ 16,827 10	\$	14,856 9
	\$ 16,837	\$	14,865

 $\label{thm:companying} The accompanying notes are an integral part of these \ Consolidated \ Financial \ Statements.$ 

# Consolidated Statements of Changes in Equity

							For the y	For the year ended October 31, 2024	October	31, 2024					
								Other	compone	Other components of equity	ty				
	Pref	Preferred shares and		Treasury – preferred shares and Treasury –	Treasury -		7	FVOCI	Foreign		Total other	Equity	>		
(Millions of Canadian dollars)	other equity instruments		Common shares	other equity instruments	common	common Retained shares earnings		뉴	rrency C	ash flow hedges	components of equity	nponents attributable to of equity shareholders	currency Cash flow components attributable to Non-controlling anslation hedges of equity shareholders interests	ling ests	Total equity
Balance at beginning of period	\$	7,323 \$ 19,398	19,398	(6) \$	(9) \$ (231	(231) \$ 81,715 \$ (2,516) \$ 6,612 \$ 2,756 \$	\$ (2,	\$ (915	6,612 \$	2,756	\$ 6,852 \$	\$ 115,048	\$ 8	. \$ 66	99 \$ 115,147
Transition adjustment (Note 2)		1	1	1	1	- (656)		656	I	1	656	•		1	Î
Restated balance at beginning of period Changes in equity	· ·	7,323 \$ 19,398	3 19,398	\$ (6) \$		(231) \$ 81,059 \$ (1,860) \$	\$ (1,		6,612 \$	2,756	\$ 7,508	\$ 115,048	\$\frac{1}{2}	\$ 66	\$ 115,147
Issues of share capital and other equity instruments	• •	2,720	1,628	I		- (18)	_	ı	I	I	I	4,330	0	ı	4,330
Common shares purchased for cancellation		ı	(13)	I		- (127)	_	ı	ı	I	ı	(140)	(o	1	(140)
Redemption of preferred shares and other equity instruments	_	(1,023)	I	I		- 2		ı	ı	I	I	(1,021)	<del>-</del>	1	(1,021)
Sales of treasury shares and other equity instruments		I	I	1,245	5,472	1		1	ı	1	1	6,717	7	1	6,717
Purchases of treasury shares and other equity instruments		I	I	(1,225)	(5,302)			ı	ı	I	I	(6,527)	7)	1	(6,527)
Share-based compensation awards		1	1	I		- 69		1	ı	1	1	69	6	1	69
Dividends on common shares		I	I	I		- (7,916)	_	ı	ı	I	I	(7,916)	(9	1	(7,916)
Dividends on preferred shares and distributions on other															
equity instruments		1	I	I	1	- (322)	_	ı	I	I	1	(322)	2)	(9)	(328)
Other		I	I	1	1	- 24		ı	I	I	1	24	4	1	24
Net income		I	I	I		- 16,230		ı	ı	I	I	16,230	0	10	16,240
Total other comprehensive income (loss), net of taxes		1	1	1	_	- (393)		963	516	(488)	066	597	7	1	597
Balance at end of period	\$	9,020 \$ 21,013	3 21,013	\$ 11	\$ (61	\$ 88,608 \$		\$ (268)	7,128 \$	2,267	\$ 8,498	\$ 127,089	\$ 6	103 \$ 127,192	127,192

						For the yea	For the year ended October 31, 2023 (Restated – Note 2)	er 31, 2023 (R	estated - N	lote 2)			
						'	Oth	Other components of equity	ints of equit	٨			
	o -	Preferred shares and			-						Equity	<u>:</u>	
(Millions of Canadian dollars)	i. ot	other equity instruments	Common	other equity instruments	shares	Ketained earnings	securities currency and loans translation		cash flow hedges	components of equity	attributable to shareholders	Non-controlling interests	lotal equity
Balance at beginning of period Transition adjustment (Note 2)	\$	7,323 \$ 17,31	\$ 17,318	(5) \$	\$	(334) \$ 78,037 - (2,359)	\$ (2,357) \$	5,688 \$	2,394	\$ 5,725 \$	\$ 108,064 (2,359)	\$ 111 \$	\$ 108,175 (2,359)
Restated balance at beginning of period Changes in equity	\$	7,323	7,323 \$ 17,318	(5) \$	\$	(334) \$ 75,678	\$ (2,357) \$	5,688 \$	2,394	\$ 5,725 \$	\$ 105,705	\$ 111	\$ 105,816
Issues of share capital and other equity instruments		I	2,080	I	I	_	I	I	ı	I	2,081	I	2,081
Common shares purchased for cancellation		1	ı	1	I	I	ı	1	ı	1	1	1	I
Redemption of preferred shares and other equity instruments	S	I	ı	I	I	I	ı	I	I	I	I	I	I
Sales of treasury shares and other equity instruments		I	ı	515	3,659	I	ı	I	I	I	4,174	I	4,174
Purchases of treasury shares and other equity instruments		I	ı	(519)	(3,556)	I	ı	I	I	I	(4,075)	I	(4,075)
Share-based compensation awards		I	1	1	I	4	ı	ı	I	I	4	ı	4
Dividends on common shares		I	ı	I	I	(7,443)	ı	I	I	I	(7,443)	ı	(7,443)
Dividends on preferred shares and distributions on other													
equity instruments		I	I	I	I	(236)	I	I	I	I	(236)	(21)	(257)
Other		1	ı	1	I	(18)	ı	1	ı	1	(18)	1	(18)
Netincome		I	ı	I	I	14,605	ı	I	I	I	14,605	7	14,612
Total other comprehensive income (loss), net of taxes		I	I	I	I	(876)	(159)	924	362	1,127	251	2	253
Restated balance at end of period	ş	7,323 \$ 19,39	\$ 19,398	(6) \$	\$	\$ 81,715	(231) \$ 81,715 \$ (2,516) \$	6,612 \$	2,756	\$ 6,852 \$	115,048	\$ 89	99 \$ 115,147

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

# Consolidated Statements of Cash Flows

	For the ye	ear ended
	October 31 2024	October 31 2023
(Millions of Canadian dollars)		(Restated – Note 2)
Cash flows from operating activities  Net income  Adjustments for non-cash items and others	\$ 16,240	\$ 14,612
Provision for credit losses	3,232	2,468
Depreciation Deferred income taxes	1,364 (1,529)	1,275 (1,018)
Amortization and impairment of other intangibles	1,617	1,579
Net changes in investments in joint ventures and associates	16	221
Losses (Gains) on investment securities Losses (Gains) on disposition of business	(170) 29	(193) (92)
Adjustments for net changes in operating assets and liabilities		. ,
Insurance contract liabilities  Net change in accrued interest receivable and payable	3,205 1,674	800 2,838
Current income taxes	945	(1,008)
Derivative assets	(4,797)	11,826
Derivative liabilities Trading securities	17,593 8,886	(10,452) (41,946)
Loans, net of securitizations	(55,007)	(34,688)
Assets purchased under reverse repurchase agreements and securities borrowed Obligations related to assets sold under repurchase agreements and securities loaned	(10,168) (35,581)	(22,346) 61,291
Obligations related to assets sold ander reparents and securities loaned	727	(1,860)
Deposits, net of securitizations	91,596	43,990
Brokers and dealers receivable and payable Other	(304) (16,429)	(2,444) 1,226
Net cash from (used in) operating activities	23,139	26,079
Cash flows from investing activities	·	·
Change in interest-bearing deposits with banks	5,066	18,743
Proceeds from sales and maturities of investment securities Purchases of investment securities	182,335 (193,307)	156,466 (202,456)
Net acquisitions of premises and equipment and other intangibles	(2,280)	(2,730)
Net proceeds from (cash transferred for) dispositions Cash used in acquisitions, net of cash acquired	15 (12,716)	1,712
Net cash from (used in) investing activities	(20,887)	(28,265)
Cash flows from financing activities	(20,007)	(20,203)
Issuance of subordinated debentures	3,250	1,500
Repayment of subordinated debentures	(1,500)	(170)
Issue of common shares, net of issuance costs Common shares purchased for cancellation	159 (140)	65 -
Issue of preferred shares and other equity instruments, net of issuance costs	2,702	_
Redemption of preferred shares and other equity instruments Sales of treasury shares and other equity instruments	(1,021) 6,717	- 4,174
Purchases of treasury shares and other equity instruments	(6,527)	(4,075)
Dividends paid on shares and distributions paid on other equity instruments Dividends/distributions paid to non-controlling interests	(6,637) (6)	(5,549) (21)
Change in short-term borrowings of subsidiaries	(4,507)	(5,102)
Repayment of lease liabilities	` (636)	(655)
Net cash from (used in) financing activities	(8,146)	(9,833)
Effect of exchange rate changes on cash and due from banks	628	1,611
Net change in cash and due from banks Cash and due from banks at beginning of period (1)	(5,266) 61,989	(10,408) 72,397
Cash and due from banks at end of period (1)	\$ 56,723	\$ 61,989
Cash flows from operating activities include:		
Amount of interest paid Amount of interest received	\$ 73,639 102,127	\$ 54,698 81,090
Amount of dividends received	3,502	3,362
Amount of income taxes paid	3,410	4,964

<sup>(1)</sup> We are required to maintain balances due to regulatory requirements or contractual restrictions from central banks, other regulatory authorities, and other counterparties. The total balances were \$2 billion as at October 31, 2024 (October 31, 2023 – \$3 billion; October 31, 2022 – \$2 billion).

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

#### Note 1 General information

Royal Bank of Canada and its subsidiaries (the Bank) provide diversified financial services including Personal Banking, Commercial Banking, Wealth Management, Insurance and Capital Markets products and services on a global basis. Refer to Note 26 for further details on our business segments.

The parent bank, Royal Bank of Canada, is a Schedule I Bank under the *Bank Act* (Canada) incorporated and domiciled in Canada. Our corporate headquarters are located at Royal Bank Plaza, 200 Bay Street, Toronto, Ontario, Canada and our head office is located at 1 Place Ville-Marie, Montreal, Quebec, Canada. Our common shares are listed on the Toronto Stock Exchange and New York Stock Exchange with the ticker symbol RY.

These Consolidated Financial Statements are prepared in compliance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB). Unless otherwise stated, monetary amounts are stated in Canadian dollars. Tabular information is stated in millions of dollars, except as noted. These Consolidated Financial Statements also comply with Subsection 308 of the Bank Act (Canada), which states that, except as otherwise specified by the Office of the Superintendent of Financial Institutions Canada (OSFI), our Consolidated Financial Statements are to be prepared in accordance with IFRS. The accounting policies outlined in Note 2 have been consistently applied to all periods presented.

On December 3, 2024, the Board of Directors authorized the Consolidated Financial Statements for issue.

#### Note 2 Summary of material accounting policies, estimates and judgments

The material accounting policies used in the preparation of these Consolidated Financial Statements, including the accounting requirements prescribed by OSFI, are summarized below. These accounting policies conform, in all material respects, to IFRS. The same accounting policies have been applied to all periods presented.

#### General

#### Use of estimates and assumptions

In preparing our Consolidated Financial Statements, management is required to make subjective estimates and assumptions that affect the reported amount of assets, liabilities, net income and related disclosures. Estimates made by management are based on historical experience and other assumptions that are believed to be reasonable. Key sources of estimation uncertainty include: determination of fair value of financial instruments, allowance for credit losses, insurance and reinsurance contracts, pensions and other post-employment benefits, income taxes, goodwill and other intangible assets, and provisions. Accordingly, actual results may differ from these and other estimates thereby impacting our future Consolidated Financial Statements. Refer to the relevant accounting policies in this Note for details on our use of estimates and assumptions.

#### Significant judgments

In preparation of these Consolidated Financial Statements, management is required to make significant judgments that affect the carrying amounts of certain assets and liabilities, and the reported amounts of revenues and expenses recorded during the period. Significant judgments have been made in the following areas and discussed as noted in the Consolidated Financial Statements:

Consolidation of structured entities	Note 2 Note 8	Goodwill and other intangibles	Note 2 Note 11
Fair value of financial instruments	Note 2 Note 3	Application of the effective interest method	Note 2
Allowance for credit losses	Note 2 Note 4 Note 5	Derecognition of financial assets	Note 2 Note 7
Insurance and reinsurance contracts	Note 2 Note 15	Income taxes	Note 2 Note 21
Employee benefits	Note 2 Note 16	Provisions	Note 2 Note 23 Note 24

#### Basis of consolidation

Our Consolidated Financial Statements include the assets and liabilities and results of operations of the parent company, Royal Bank of Canada, and its subsidiaries including certain structured entities, after elimination of intercompany transactions, balances, revenues and expenses.

## Consolidation

Subsidiaries are those entities, including structured entities, over which we have control. We control an entity when we are exposed, or have rights, to variable returns from our involvement with the entity and have the ability to affect those returns through our power over the investee. We have power over an entity when we have existing rights that give us the current ability to direct the activities that most significantly affect the entity's returns (relevant activities). Power may be determined on the basis of voting rights or, in the case of structured entities, other contractual arrangements.

We are not deemed to control an entity when we exercise power over an entity as the agent of a third party or parties. In determining whether we are acting as an agent, we consider the overall relationship between us, the investee and other parties to the arrangement with respect to the following factors: (i) the scope of our decision-making power; (ii) the rights held by other parties; (iii) the remuneration to which we are entitled; and (iv) our exposure to variability of returns.

The determination of control is based on the current facts and circumstances and is continuously assessed. In some circumstances, different factors and conditions may indicate that various parties control an entity depending on whether those factors and conditions are assessed in isolation or in totality. Significant judgment is applied in determining whether we control an entity, specifically, assessing whether we have substantive decision-making rights over the relevant activities and whether we are exercising our power as a principal or an agent.

We consolidate all subsidiaries from the date we obtain control and cease consolidation when an entity is no longer controlled by us. Our consolidation conclusions affect the classification and amount of assets, liabilities, revenues and expenses reported in our Consolidated Financial Statements.

Non-controlling interests in subsidiaries that we consolidate are shown on our Consolidated Balance Sheets as a separate component of equity which is distinct from equity attributable to our shareholders. The net income attributable to non-controlling interests is separately disclosed in our Consolidated Statements of Income.

#### Investments in joint ventures and associates

Our investments in associated corporations and limited partnerships over which we have significant influence are accounted for using the equity method. The equity method is also applied to our interests in joint ventures over which we have joint control. Under the equity method of accounting, investments are initially recorded at cost, and the carrying amount is increased or decreased to recognize our share of the investee's net profit or loss, including our proportionate share of the investee's Other comprehensive income (OCI), subsequent to the date of acquisition.

#### Non-current assets held for sale and discontinued operations

Non-current assets (and disposal groups) are classified as held for sale if their carrying amounts will be recovered principally through a sale transaction rather than through continuing use. This condition is satisfied when the asset is available for immediate sale in its present condition, management is committed to the sale, and it is highly probable to occur within one year. Non-current assets (and disposal groups) classified as held for sale are measured at the lower of their previous carrying amount and fair value less costs to sell and if significant, are presented separately from other assets on our Consolidated Balance

A disposal group is classified as a discontinued operation if it meets the following conditions: (i) it is a component that can be distinguished operationally and financially from the rest of our operations and (ii) it represents either a separate major line of business or is part of a single coordinated plan to dispose of a separate major line of business or geographical area of operations. Disposal groups classified as discontinued operations are presented separately from our continuing operations in our Consolidated Statements of Income.

#### **Financial Instruments**

## Classification of financial assets

Financial assets are measured at initial recognition at fair value, and are classified and subsequently measured at fair value through profit or loss (FVTPL), fair value through other comprehensive income (FVOCI) or amortized cost based on our business model for managing the financial instruments and the contractual cash flow characteristics of the instrument.

Debt instruments are measured at amortized cost if both of the following conditions are met and the asset is not designated as FVTPL: (a) the asset is held within a business model that is Held-to-Collect (HTC) as described below, and (b) the contractual terms of the instrument give rise to cash flows that are solely payments of principal and interest on the principal amount outstanding (SPPI).

Debt instruments are measured at FVOCI if both of the following conditions are met and the asset is not designated as FVTPL: (a) the asset is held within a business model that is Held-to-Collect-and-Sell (HTC&S) as described below, and (b) the contractual terms of the instrument give rise, on specified dates, to cash flows that are SPPI.

All other debt instruments are measured at FVTPL.

Equity instruments are measured at FVTPL, unless the asset is not held for trading purposes and we make an irrevocable election to designate the asset as FVOCI. This election is made on an instrument-by-instrument basis.

#### Business model assessment

We determine our business models at the level that best reflects how we manage portfolios of financial assets to achieve our business objectives. Judgment is used in determining our business models, which is supported by relevant, objective evidence including:

- How the economic activities of our businesses generate benefits, for example through trading revenue, enhancing yields or hedging funding or other costs and how such economic activities are evaluated and reported to key management personnel;
- The significant risks affecting the performance of our businesses, for example, market risk, credit risk, or other risks as described in the Risk Management section of the MD&A, and the activities undertaken to manage those risks;
- Historical and future expectations of sales of the loans or securities portfolios managed as part of a business model;
- The compensation structures for managers of our businesses, to the extent that these are directly linked to the economic performance of the business model.

Our business models fall into three categories, which are indicative of the key strategies used to generate returns:

- HTC: The objective of this business model is to hold loans and securities to collect contractual principal and interest cash flows. Sales are incidental to this objective and are expected to be insignificant or infrequent.
- HTC&S: Both collecting contractual cash flows and sales are integral to achieving the objective of the business model.
- Other fair value business models: These business models are neither HTC nor HTC&S, and primarily represent business models where assets are held-for-trading or managed on a fair value basis.

#### SPPI assessment

Instruments held within a HTC or HTC&S business model are assessed to evaluate if their contractual cash flows are comprised of solely payments of principal and interest. SPPI payments are those which would typically be expected from basic lending arrangements. Principal amounts include par repayments from lending and financing arrangements, and interest primarily relates to basic lending returns, including compensation for credit risk and the time value of money associated with the principal amount outstanding over a period of time. Interest can also include other basic lending risks and costs (for example, liquidity risk, servicing or administrative costs) associated with holding the financial asset for a period of time, and a profit margin.

Where the contractual terms introduce exposure to risk or variability of cash flows that are inconsistent with a basic lending arrangement, the related financial asset is classified and measured at FVTPL.

#### Securities

Trading securities include all securities that are classified as FVTPL by nature and securities designated as FVTPL. Obligations to deliver trading securities sold but not yet purchased are recorded as liabilities and carried at fair value. Realized and unrealized gains and losses on these securities are generally recorded in Non-interest income – Trading revenue or Non-interest income – Other except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment result. Dividends and interest income accruing on Trading securities are recorded in Interest and dividend income except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment result. Interest and dividends accrued on securities sold short are recorded in Interest expense.

Investment securities include all securities classified as FVOCI and amortized cost. All investment securities are initially recorded at fair value and subsequently measured according to the respective classification.

Investment securities carried at amortized cost are measured using the effective interest method, and are presented net of any allowance for credit losses, calculated in accordance with our policy for Allowance for credit losses, as described below. Interest income, including the amortization of premiums and discounts on securities measured at amortized cost are recorded in Interest and dividend income. Impairment gains or losses recognized on amortized cost securities are recorded in Provision for credit losses (PCL). When a debt instrument measured at amortized cost is sold, the difference between the sale proceeds and the amortized cost of the security at the time of the sale is recorded as Net gains on investment securities in Non-interest income.

Debt securities carried at FVOCI are measured at fair value with unrealized gains and losses arising from changes in fair value included in Other components of equity. Impairment gains and losses are included in PCL and correspondingly reduce the accumulated changes in fair value included in Other components of equity. When a debt instrument measured at FVOCI is sold, the cumulative gain or loss is reclassified from Other components of equity to Non-interest income – Net gains on investment securities, or Non-interest income – Insurance investment result if relating to the Insurance segment.

Equity securities carried at FVOCI are measured at fair value. Unrealized gains and losses arising from changes in fair value are recorded in Other components of equity and not subsequently reclassified to profit or loss when realized. Dividends from FVOCI equity securities are recognized in Interest and dividend income except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment result.

We account for all of our securities using settlement date accounting and changes in fair value between the trade date and settlement date are reflected in income for securities measured at FVTPL, and changes in the fair value of securities measured at FVOCI between the trade and settlement dates are recorded in OCI except for changes in foreign exchange rates on debt securities, which are recorded in Non-interest income.

#### Fair value option

A financial instrument with a reliably measurable fair value can be designated as FVTPL (the fair value option) on its initial recognition even if the financial instrument was not acquired or incurred principally for the purpose of selling or repurchasing. The fair value option can be used for financial assets if it eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise from measuring assets or liabilities, or recognizing related gains and losses on a different basis (an accounting mismatch). The fair value option can be elected for financial liabilities if: (i) the election eliminates an accounting mismatch; (ii) the financial liability is part of a portfolio that is managed on a fair value basis, in accordance with a documented risk management or investment strategy; or (iii) there is an embedded derivative in the financial or non-financial host contract and the derivative is not closely related to the host contract. These instruments cannot be reclassified out of the FVTPL category while they are held or issued.

Financial assets designated as FVTPL are recorded at fair value and any unrealized gain or loss arising due to changes in fair value is included in Non-interest income – Trading revenue or Non-interest income – Other, depending on our business purpose for holding the financial asset.

Financial liabilities designated as FVTPL are recorded at fair value and fair value changes attributable to changes in our own credit risk are recorded in OCI. Own credit risk amounts recognized in OCI will not be reclassified subsequently to net income. The remaining fair value changes not attributable to changes in our own credit risk are recorded in Non-interest income – Trading revenue or Non-interest income – Other, depending on our business purpose for holding the financial liability, except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment result. Upon initial recognition, if we determine that presenting the effects of own credit risk changes in OCI would create or enlarge an accounting mismatch in net income, the full fair value change in our debt designated as FVTPL is recognized in net income. To make that determination, we assess whether we expect that the effects of changes in the liability's credit risk will be offset in profit or loss by a change in the fair value of another financial instrument measured at FVTPL. Such an expectation is based on an economic relationship between the characteristics of the liability and the characteristics of the other financial instrument. The determination is made at initial recognition and is not reassessed. To determine the fair value adjustments on our debt instruments designated as FVTPL, we calculate the present value of the instruments based on the contractual cash flows over the term of the arrangement by using our effective funding rate at the beginning and end of the period.

#### Determination of fair value

The fair value of a financial instrument is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. We determine fair value by incorporating factors that market participants would consider in setting a price, including commonly accepted valuation approaches.

The Board of Directors provides oversight on valuation of financial instruments, primarily through the Audit Committee and Risk Committee. The Audit Committee reviews the presentation and disclosure of financial instruments that are measured at fair value, while the Risk Committee assesses the adequacy of governance structures and control processes for the valuation of

We have established policies, procedures and controls for valuation methodologies and techniques to ensure that fair value is reasonably estimated. Major valuation processes and controls include, but are not limited to, profit and loss decomposition, independent price verification (IPV) and model validation standards. These control processes are managed by either Finance or Group Risk Management and are independent of the relevant businesses and their trading functions. Profit and loss decomposition is a process to explain the fair value changes of certain positions and is performed daily for trading portfolios. All fair value instruments are subject to IPV, a process whereby trading function valuations are verified against external market prices and other relevant market data. Market data sources include traded prices, brokers and price vendors. We give priority to those third-party pricing services and prices having the highest and most consistent accuracy. The level of accuracy is determined over time by comparing third-party price values to traders' or system values, other pricing service values and, when available, actual trade data. Quoted prices for identical instruments from pricing services or brokers are generally not adjusted unless there are issues such as stale prices. If multiple quotes for identical instruments are received, fair value is based on an average of the prices received or the quote from the most reliable vendor, after the outlier prices that fall outside of the pricing range are removed. Other valuation techniques are used when a price or quote is not available. Some valuation processes use models to determine fair value. We have a systematic and consistent approach to control the use of models. Valuation models are approved for use within our model risk management framework. The framework addresses, among other things, model development standards, validation processes and procedures and approval authorities. Model validation ensures that a model is suitable for its intended use and sets parameters for its use. All models are revalidated regularly by qualified personnel who are independent of the model design and development. Annually, our model risk profile is reported to the Board of Directors.

IFRS 13 Fair Value Measurement permits an exception, through an accounting policy choice, to measure the fair value of a portfolio of financial instruments on a net open risk position basis when certain criteria are met. We have elected to use this policy choice to determine the fair value of certain portfolios of financial instruments, primarily derivatives, based on a net exposure to market or credit risk.

We record valuation adjustments to appropriately reflect counterparty credit quality of our derivative portfolio, differences between the actual counterparty collateral discount curve and standard overnight index swap (OIS) discounting for collateralized derivatives, funding valuation adjustments (FVA) for uncollateralized and under-collateralized over-the-counter (OTC) derivatives, unrealized gains or losses at inception of the transaction, bid-offer spreads, unobservable parameters and model limitations. These adjustments may be subjective as they require significant judgment in the input selection, such as implied probability of default (PD) and recovery rate, and are intended to arrive at a fair value that is determined based on assumptions that market participants would use in pricing the financial instrument. The ultimate realized price for a transaction may differ from its fair recorded value previously estimated using management judgment.

Valuation adjustments are recorded for the credit risk of our derivative portfolios in order to arrive at their fair values. Credit valuation adjustments (CVA) take into account our counterparties' creditworthiness, the current and potential future mark-to-market of transactions and the effects of credit mitigants such as master netting and collateral agreements. CVA amounts are derived from estimates of exposure at default (EAD), PD, recovery rates on a counterparty basis and market and credit factor correlations. EAD is the value of expected derivative related assets and liabilities at the time of default, estimated through modelling using underlying risk factors. PD is implied from the market prices for credit protection and the credit ratings of the counterparty. When market data is unavailable, it is estimated by incorporating assumptions and adjustments that market participants would use for determining fair value using these inputs. Correlation is the statistical measure of how credit and market factors may move in relation to one another. Correlation is estimated using historical data. CVA is calculated daily and changes are recorded in Non-interest income – Trading revenue.

FVA is also calculated to incorporate the cost and benefit of funding in the valuation of uncollateralized and undercollateralized OTC derivatives. Future expected cash flows of these derivatives are discounted to reflect the cost and benefit of funding the derivatives by using a funding curve, implied volatilities and correlations as inputs.

Where required, a valuation adjustment is made to reflect the unrealized gain or loss at inception of a financial instrument contract where the fair value of that financial instrument is not obtained from a quoted market price or cannot be evidenced by other observable market transactions based on a valuation technique incorporating observable market data.

A bid-offer valuation adjustment is required when a financial instrument is valued at the mid-market price, instead of the bid or offer price for asset or liability positions, respectively. The valuation adjustment takes into account the spread from the mid-market price to either the bid or offer price.

Some valuation models require parameter calibration from such factors as market observable option prices. The calibration of parameters may be sensitive to factors such as the choice of instruments or optimization methodology. A valuation adjustment is also estimated to mitigate the uncertainties of parameter calibration and model limitations.

In determining fair value, a hierarchy is used which prioritizes the inputs to valuation techniques. The fair value hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). Determination of fair value based on this hierarchy requires the use of observable market data whenever available. Level 1 inputs are unadjusted quoted prices in active markets for identical assets or liabilities that we have the ability to access at the measurement date. Level 2 inputs include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, and model inputs that are either observable, or can be corroborated by observable market data for substantially the full term of the assets or liabilities. Level 3 inputs include one or more inputs that are unobservable and significant to the fair value of the asset or liability. Unobservable inputs are used to measure fair value to the extent that observable inputs are not available at the measurement date. The availability of inputs for valuation may affect the selection of valuation techniques. The classification of a financial instrument in the fair value hierarchy for disclosure purposes is based upon the lowest level of input that is significant to the measurement of fair value.

Where observable prices or inputs are not available, management judgment is required to determine fair values by assessing other relevant sources of information such as historical data, proxy information from similar transactions, and through extrapolation and interpolation techniques. For more complex or illiquid instruments, significant judgment is required in the determination of the model used, the selection of model inputs, and in some cases, the application of valuation adjustments to the model value or quoted price for inactively traded financial instruments. The selection of model inputs may be subjective and the inputs may be unobservable. Unobservable inputs are inherently uncertain as there is little or no market data available from which to determine the level at which the transaction would occur under normal business circumstances. Appropriate parameter uncertainty and market risk valuation adjustments for such inputs and other model risk valuation adjustments are assessed in all such instances.

#### Loans

Loans are debt instruments recognized initially at fair value and are subsequently measured in accordance with the Classification of financial assets policy provided above. The majority of our loans are carried at amortized cost using the effective interest method, which represents the gross carrying amount less allowance for credit losses.

Interest on loans is recognized using the effective interest method and recorded in Interest income except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment. The estimated future cash flows used in this calculation include those determined by the contractual term of the asset and all fees that are considered to be integral to the effective interest rate. Also included in this amount are transaction costs and all other premiums or discounts. Fees that relate to activities such as originating, restructuring or renegotiating loans are deferred and recognized as Interest income over the expected term of such loans using the effective interest method. Where there is a reasonable expectation that a loan will be originated, commitment and standby fees are also recognized as interest income over the expected term of the resulting loans using the effective interest method. Otherwise, such fees are recorded as other liabilities and amortized into Non-interest income over the commitment or standby period. Future prepayment fees on mortgage loans are not included as part of the effective interest rate at origination. If prepayment fees are received on a renewal of a mortgage loan before maturity, the fee is included as part of the effective interest rate, and if not renewed, the prepayment fee is recognized in interest income at the prepayment date.

For loans carried at amortized cost or FVOCI, impairment losses are recognized at each balance sheet date in accordance with the three-stage impairment model outlined below.

#### Allowance for credit losses

An allowance for credit losses (ACL) is established for all financial assets, except for financial assets classified or designated as FVTPL and equity securities designated as FVOCI, which are not subject to impairment assessment. Assets subject to impairment assessment include loans, debt securities, interest-bearing deposits with banks, customers' liability under acceptances, accounts and accrued interest receivable, and finance and operating lease receivables. ACL on loans measured at amortized cost is presented in Allowance for loan losses. ACL on debt securities measured at FVOCI is presented in Other components of equity. Other financial assets carried at amortized cost are presented net of ACL on our Consolidated Balance Sheets.

Off-balance sheet items subject to impairment assessment include financial guarantees and undrawn loan commitments. ACL on off-balance sheet items is separately calculated and included in Other Liabilities – Provisions.

We measure the ACL on each balance sheet date according to a three-stage expected credit loss impairment model:

- Performing financial assets
  - Stage 1 From initial recognition of a financial asset to the date on which the asset has experienced a significant
    increase in credit risk relative to its initial recognition, a loss allowance is recognized equal to the credit losses
    expected to result from defaults occurring over the 12 months following the reporting date.
  - Stage 2 Following a significant increase in credit risk relative to the initial recognition of the financial asset, a loss allowance is recognized equal to the credit losses expected over the remaining lifetime of the asset.
- Impaired financial assets
  - Stage 3 When a financial asset is considered to be credit-impaired, a loss allowance is recognized equal to credit losses expected over the remaining lifetime of the asset. Interest income is calculated based on the carrying amount of the asset, net of the loss allowance, rather than on its gross carrying amount.

The ACL is a discounted probability-weighted estimate of the cash shortfalls expected to result from defaults over the relevant time horizon. For loan commitments, credit loss estimates consider the portion of the commitment that is expected to be drawn over the relevant time period. For financial guarantees, credit loss estimates are based on the expected payments required under the guarantee contract. For finance lease receivables, credit loss estimates are based on cash flows consistent with the cash flows used in measuring the lease receivable.

Increases or decreases in the required ACL attributable to model changes and new originations, sales or maturities, and changes in risk, parameters and exposures due to changes in loss expectations or stage transfers are recorded in PCL. Write-offs and recoveries of amounts previously written off are recorded against ACL.

The ACL represents an unbiased estimate of expected credit losses on our financial assets as at the balance sheet date. Judgment is required in making assumptions and estimations when calculating the ACL, including movements between the three stages and the application of forward-looking information. The underlying assumptions and estimates may result in changes to the provisions from period to period that significantly affect our results of operations.

# Measurement of expected credit losses

Expected credit losses are based on a range of possible outcomes and consider all available reasonable and supportable information, including internal and external ratings, historical credit loss experience and expectations about future cash flows. The measurement of expected credit losses is based primarily on the product of the instrument's PD, loss given default (LGD), and EAD discounted to the reporting date. The main difference between Stage 1 and Stage 2 expected credit losses for performing financial assets is the respective calculation horizon. Stage 1 estimates project PD, LGD and EAD over a maximum period of 12 months while Stage 2 estimates project PD, LGD and EAD over the remaining lifetime of the instrument.

An expected credit loss estimate is produced for each individual exposure. Relevant parameters are modelled on a collective basis using portfolio segmentation that allows for appropriate incorporation of forward-looking information. To reflect other characteristics that are not already considered through modelling, expert credit judgment is exercised in determining the final expected credit losses.

For a small percentage of our portfolios which lack detailed historical information and/or loss experience, we apply simplified measurement approaches that may differ from what is described above. These approaches have been designed to maximize the available information that is reliable and supportable for each portfolio and may be collective in nature.

Expected credit losses are discounted to the reporting period date using the effective interest rate.

#### Expected life

For instruments in Stage 2 or Stage 3, loss allowances reflect expected credit losses over the expected remaining lifetime of the instrument. For most instruments, the expected life is limited to the remaining contractual life.

An exemption is provided for certain instruments with the following characteristics: (a) the instrument includes both a loan and undrawn commitment component; (b) we have the contractual ability to demand repayment and cancel the undrawn commitment; and (c) our exposure to credit losses is not limited to the contractual notice period. For products in scope of this exemption, the expected life may exceed the remaining contractual life and is the period over which our exposure to credit losses is not mitigated by our normal credit risk management actions. This period varies by product and risk category and is estimated based on our historical experience with similar exposures and consideration of credit risk management actions taken as part of our regular credit review cycle. Products in scope of this exemption include credit cards, overdraft balances and certain revolving lines of credit. Judgment is required in determining the instruments in scope for this exemption and estimating the appropriate remaining life based on our historical experience and credit risk mitigation practices.

#### Assessment of significant increase in credit risk

The assessment of significant increase in credit risk requires significant judgment. Movements between Stage 1 and Stage 2 are based on whether an instrument's credit risk as at the reporting date has increased significantly relative to the date it was initially recognized. For the purposes of this assessment, credit risk is based on an instrument's lifetime PD, not the losses we expect to incur. The assessment is generally performed at the instrument level.

Our assessment of significant increases in credit risk is performed at least quarterly based on three factors. If any of the following factors indicates that a significant increase in credit risk has occurred, the instrument is moved from Stage 1 to Stage 2:

- (1) We have established thresholds for significant increases in credit risk based on both a percentage and absolute change in lifetime PD relative to initial recognition. For our wholesale portfolio, a decrease in the borrower's risk rating is also required to determine that credit risk has increased significantly.
- (2) Additional qualitative reviews may be performed, as necessary, to assess the staging results, which may lead to adjustments to better reflect the positions whose credit risk has increased significantly. These reviews are completed at both the individual borrower levels and the portfolio level and may result in an instrument, a portfolio or a portion of a portfolio moving from Stage 1 to Stage 2.
- (3) Instruments which are 30 days past due are generally considered to have experienced a significant increase in credit risk, even if our other metrics do not indicate that a significant increase in credit risk has occurred.

The thresholds for movement between Stage 1 and Stage 2 are symmetrical. After a financial asset has transferred to Stage 2, if its credit risk is no longer considered to have significantly increased relative to its initial recognition, the financial asset will move back to Stage 1.

For certain instruments with low credit risk as at the reporting date, it is presumed that credit risk has not increased significantly relative to initial recognition. Credit risk is considered to be low if the instrument has a low risk of default, and the borrower has the ability to fulfill their contractual obligations both in the near term and in the longer term, including periods of adverse changes in the economic or business environment. Certain interest-bearing deposits with banks, assets purchased under reverse repurchase agreements, insurance policy loans, and liquidity facilities extended to our multi-seller conduits have been identified as having low credit risk.

# Use of forward-looking information

The measurement of expected credit losses for each stage and the assessment of significant increase in credit risk considers information about past events and current conditions as well as reasonable and supportable projections of future events and economic conditions. The estimation and application of forward-looking information requires significant judgment.

The PD, LGD and EAD inputs used to estimate Stage 1 and Stage 2 credit loss allowances are modelled based on the macroeconomic variables (or changes in macroeconomic variables) that are most closely correlated with credit losses in the relevant portfolio. Each macroeconomic scenario used in our expected credit loss calculation includes a projection of all relevant macroeconomic variables used in our models for a five-year period, subsequently reverting to long-run averages. Macroeconomic variables used in our expected credit loss models include, but are not limited to, unemployment rates, gross domestic product growth rates, equity return indices, commodity prices, and Canadian housing prices. Depending on their usage in the models, macroeconomic variables may be projected at a country, province/state or more granular level.

Our estimation of expected credit losses in Stage 1 and Stage 2 is a discounted probability-weighted estimate that considers a minimum of three future macroeconomic scenarios. Our base case scenario is based on macroeconomic forecasts published by our internal economics group. The published forecasts are developed from models based on historical macroeconomic data, derived from public sources and financial markets. Upside and downside scenarios vary relative to our base case scenario based on reasonably possible alternative macroeconomic conditions. Additional and more severe downside scenarios are designed to capture a broader range of potential credit losses in certain sectors. Scenario design, including the identification of additional downside scenarios, occurs at least on an annual basis and more frequently if conditions warrant.

Scenarios are designed to capture a wide range of possible outcomes and weighted according to our best estimate of the relative likelihood of the range of outcomes that each scenario represents. Scenario weights take into account historical frequency, current trends, and forward-looking conditions and are updated on a quarterly basis. All scenarios considered are applied to all portfolios subject to expected credit losses with the same probabilities.

Our assessment of significant increases in credit risk is based on changes in probability-weighted forward-looking lifetime PDs as at the reporting date, using the same macroeconomic scenarios as the calculation of expected credit losses.

#### Definition of default

The definition of default used in the measurement of expected credit losses is consistent with the definition of default used for our internal credit risk management purposes. Our definition of default may differ across products and consider both quantitative and qualitative factors, such as the terms of financial covenants and days past due. For retail and wholesale borrowers, except as detailed below, default occurs when the borrower is more than 90 days past due on any material obligation to us, and/or we consider the borrower unlikely to make their payments in full without recourse action on our part, such as taking formal possession of any collateral held. For certain credit card balances, default occurs when payments are 180 days past due. For these balances, the use of a period in excess of 90 days past due is reasonable and supported by observable data on write-off and recovery rates experienced on historical credit card portfolios. The definition of default used is applied consistently from period to period and to all financial instruments unless it can be demonstrated that circumstances have changed such that another definition of default is more appropriate.

# Credit-impaired financial assets (Stage 3)

Financial assets are assessed for credit-impairment at each balance sheet date and more frequently when circumstances warrant further assessment. Evidence of credit-impairment may include indications that the borrower is experiencing significant financial difficulty, probability of bankruptcy or other financial reorganization, as well as a measurable decrease in the estimated future cash flows evidenced by the adverse changes in the payments status of the borrower or economic conditions that correlate with defaults. An asset that is in Stage 3 will move back to Stage 2 when, as at the reporting date, it is no longer considered to be credit-impaired. The asset will transfer back to Stage 1 when its credit risk at the reporting date is no longer considered to have increased significantly from initial recognition, which could occur during the same reporting period as the transfer from Stage 3 to Stage 2.

When a financial asset has been identified as credit-impaired, expected credit losses are measured as the difference between the asset's gross carrying amount and the present value of estimated future cash flows discounted at the instrument's original effective interest rate. For impaired financial assets with drawn and undrawn components, expected credit losses also reflect any credit losses related to the portion of the loan commitment that is expected to be drawn down over the remaining life of the instrument.

When a financial asset is credit-impaired, interest ceases to be recognized on the regular accrual basis, which accrues income based on the gross carrying amount of the asset. Rather, interest income is calculated by applying the original effective interest rate to the amortized cost of the asset, which is the gross carrying amount less the related ACL.

ACL for credit-impaired loans in Stage 3 are established at the borrower level, where losses related to impaired loans are identified on individually significant loans, or collectively assessed and determined through the use of portfolio-based rates, without reference to particular loans.

# Individually assessed loans (Stage 3)

When individually significant loans are identified as impaired, we reduce the carrying value of the loans to their estimated realizable value by recording an individually assessed ACL to cover identified credit losses. The individually assessed ACL reflects the expected amount of principal and interest calculated under the terms of the original loan agreement that will not be recovered, and the impact of time delays in collecting principal and/or interest (time value of money). The estimated realizable value for each individually significant loan is the present value of expected future cash flows discounted using the original effective interest rate for each loan. When the amounts and timing of future cash flows cannot be estimated with reasonable reliability, the estimated realizable amount may be determined using observable market prices for comparable loans, the fair value of collateral underlying the loans, and other reasonable and supported methods based on management judgment.

Individually-assessed allowances are established in consideration of a range of possible outcomes, which may include macroeconomic or non-macroeconomic scenarios, to the extent relevant to the circumstances of the specific borrower being assessed. Assumptions used in estimating expected future cash flows reflect current and expected future economic conditions and are generally consistent with those used in Stage 1 and Stage 2 measurement.

Significant judgment is required in assessing evidence of credit-impairment and estimation of the amount and timing of future cash flows when determining expected credit losses. Changes in the amount expected to be recovered would have a direct impact on PCL and may result in a change in the ACL.

#### Collectively assessed loans (Stage 3)

Loans that are collectively assessed are grouped on the basis of similar risk characteristics, taking into account loan type, industry, geographic location, collateral type, past due status and other relevant factors.

The collectively-assessed ACL reflects: (i) the expected amount of principal and interest calculated under the terms of the original loan agreement that will not be recovered, and (ii) the impact of time delays in collecting principal and/or interest (time value of money).

The expected principal and interest collection is estimated on a portfolio basis and references historical loss experience of comparable portfolios with similar credit risk characteristics, adjusted for the current environment and expected future conditions. A portfolio specific coverage ratio is applied against the impaired loan balance in determining the collectively-assessed ACL. The time value of money component is calculated by using the discount factors applied to groups of loans sharing common characteristics. The discount factors represent the expected recovery pattern of the comparable group of loans, and reflect the historical experience of these groups adjusted for current and expected future economic conditions and/or industry factors. Significant judgment is required in assessing evidence of credit-impairment and estimation of the amount and timing of future cash flows when determining expected credit losses. Changes in the amount expected to be recovered would have a direct impact on PCL and may result in a change in the ACL.

#### Write-off of loans

Loans and the related ACL are written off, either partially or in full, when there is no realistic prospect of recovery. Where loans are secured, they are generally written off after receipt of any proceeds from the realization of collateral. In circumstances where the net realizable value of any collateral has been determined and there is no reasonable expectation of further recovery, write off may be earlier. For credit cards, the balances and related ACL are generally written off when payment is 180 days past due. Personal loans are generally written off at 150 days past due.

#### **Modifications**

The original terms of a financial asset may be renegotiated or otherwise modified, resulting in changes to the contractual terms of the financial asset that affect the contractual cash flows. The treatment of such modifications is primarily based on the process undertaken to execute the renegotiation and the nature and extent of the expected changes. In the normal course of business, modifications which are performed for credit reasons, primarily related to troubled debt restructurings, are generally treated as modifications of the original financial asset. Modifications which are performed for other than credit reasons are generally considered to be an expiry of the original cash flows; accordingly, such renegotiations are treated as a derecognition of the original financial asset and recognition of a new financial asset.

If a modification of terms does not result in derecognition of the financial asset, the carrying amount of the financial asset is recalculated as the present value of the renegotiated or modified contractual cash flows, discounted at the original effective interest rate and a gain or loss is recognized. The financial asset continues to be subject to the same assessments for significant increase in credit risk relative to initial recognition and credit-impairment, as described above. A modified financial asset will transfer out of Stage 3 if the conditions that led to it being identified as credit-impaired are no longer present and relate objectively to an event occurring after the original credit-impairment was recognized. A modified financial asset will transfer out of Stage 2 when it no longer satisfies the relative thresholds set to identify significant increases in credit risk, which are based on changes in its lifetime PD, days past due and other qualitative considerations. The financial asset continues to be monitored for significant increases in credit risk and credit-impairment.

If a modification of terms results in derecognition of the original financial asset and recognition of the new financial asset, the new financial asset will generally be recorded in Stage 1, unless it is determined to be credit-impaired at the time of the renegotiation. For the purposes of assessing for significant increases in credit risk, the date of initial recognition for the new financial asset is the date of the modification.

#### **Derivatives**

When derivatives are embedded in other financial instruments or host contracts, such combinations are known as hybrid instruments. If the host contract is a financial asset within the scope of IFRS 9 Financial Instruments (IFRS 9), the classification and measurement criteria are applied to the entire hybrid instrument as described in the Classification of financial assets section of Note 2. If the host contract is a financial liability or an asset that is not within the scope of IFRS 9, embedded derivatives are separately recognized if the economic characteristics and risks of the embedded derivative are not clearly and closely related to the host contract, unless an election has been made to elect the fair value option, as described above. The host contract is accounted for in accordance with the relevant standards. Embedded derivatives are presented on a combined basis with the host contracts.

All derivative instruments are recorded on our Consolidated Balance Sheets at fair value, inclusive of valuation adjustments. When derivatives are used in trading activities, the realized and unrealized gains and losses on these derivatives are recognized in Non-interest income – Trading revenue. When derivatives are used to manage our own exposures, we determine for each derivative whether hedge accounting can be applied, as discussed in the Hedge accounting section below. For derivatives used to manage our own exposures where we do not apply hedge accounting, the realized and unrealized gains and losses are primarily recognized in Non-interest income – Other.

#### Derecognition of financial assets

Financial assets are derecognized from our Consolidated Balance Sheets when our contractual rights to the cash flows from the assets have expired, when we retain the rights to receive the cash flows of the assets but assume an obligation to pay those cash flows to a third party subject to certain pass-through requirements or when we transfer our contractual rights to receive the cash flows and substantially all of the risks and rewards of the assets have been transferred. When we retain substantially all of the risks and rewards of the transferred assets, the transferred assets are not derecognized from our Consolidated Balance Sheets and are accounted for as secured financing transactions. When we neither retain nor transfer substantially all risks and rewards of ownership of the assets, we derecognize the assets if control over the assets is relinquished. If we retain control over the transferred assets, we continue to recognize the transferred assets to the extent of our continuing involvement.

Management judgment is applied in determining whether the contractual rights to the cash flows from the transferred assets have expired or whether we retain the rights to receive cash flows on the assets but assume an obligation to pay for those cash flows. We derecognize transferred financial assets if we transfer substantially all the risks and rewards of the ownership in the assets. When assessing whether we have transferred substantially all of the risk and rewards of the transferred assets, management considers the Bank's exposure before and after the transfer with the variability in the amount and timing of the net cash flows of the transferred assets. In transfers in which we retain the servicing rights, management has applied judgment in assessing the benefits of servicing against market expectations. When the benefits of servicing are greater than fair value, a servicing asset is recognized in Other assets in our Consolidated Balance Sheets. When the benefits of servicing are less than fair value, a servicing liability is recognized in Other liabilities in our Consolidated Balance Sheets.

#### Derecognition of financial liabilities

We derecognize a financial liability from our Consolidated Balance Sheets when our obligation specified in the contract expires, or is discharged or cancelled. We recognize the difference between the carrying amount of a financial liability transferred and the consideration paid in our Consolidated Statements of Income.

#### Interest

Interest is recognized in Interest income and Interest expense in the Consolidated Statements of Income for all interest-bearing financial instruments except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment result. The effective interest rate is the rate that discounts estimated future cash flows over the expected life of the financial asset or liability to the net carrying amount upon initial recognition. Significant judgment is applied in determining the effective interest rate due to uncertainty in the timing and amounts of future cash flows.

#### Dividend income

Dividend income is recognized when the right to receive payment is established and is recorded in Dividend income except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment result. This is the ex-dividend date for listed equity securities, and usually the date when shareholders have approved the dividend for unlisted equity securities.

#### Transaction costs

Transaction costs are expensed as incurred for financial instruments classified or designated as FVTPL. For other financial instruments, transaction costs are capitalized on initial recognition. For financial assets and financial liabilities measured at amortized cost and debt financial assets measured at FVOCI, capitalized transaction costs are amortized through net income over the estimated life of the instrument using the effective interest method.

#### Offsetting financial assets and financial liabilities

Financial assets and financial liabilities are offset on the Consolidated Balance Sheets when there exists both a legally enforceable right to offset the recognized amounts and an intention to settle on a net basis, or realize the asset and settle the liability simultaneously.

#### Assets purchased under reverse repurchase agreements and sold under repurchase agreements

We purchase securities under agreements to resell (reverse repurchase agreements) and take possession of these securities. We monitor the market value of the securities purchased and additional collateral is obtained when appropriate. We have the right to liquidate the collateral held in the event of counterparty default. Reverse repurchase agreements are treated as collateralized lending transactions. We also sell securities under agreements to repurchase (repurchase agreements), which are treated as collateralized borrowing transactions. The securities received under reverse repurchase agreements and securities delivered under repurchase agreements are not recognized on, or derecognized from, our Consolidated Balance Sheets, respectively, unless the risks and rewards of ownership are obtained or relinquished.

Reverse repurchase agreements and repurchase agreements are carried on our Consolidated Balance Sheets at the amounts at which the securities were initially acquired or sold, except when they are classified or designated as FVTPL and are recorded at fair value. Interest earned on reverse repurchase agreements is included in Interest income, and interest incurred on repurchase agreements is included in Interest expense in our Consolidated Statements of Income while changes in fair value for reverse repurchase agreements and repurchase agreements classified or designated as FVTPL are included in Trading revenue or Other in Non-interest income except for amounts relating to the Insurance segment, which are recorded in Non-interest income – Insurance investment result.

#### Hedge accounting

We have elected to continue to apply the hedge accounting principles under IAS 39 instead of those under IFRS 9.

We use derivatives and non-derivatives in our hedging strategies to manage our exposure to interest rate, currency, credit and other market risks. Our hedging strategies include the use of fair value hedges, cash flow hedges and net investment hedges. Derivatives used in hedging relationships are recorded in Other Assets - Derivatives or Other Liabilities - Derivatives on our Consolidated Balance Sheets. Foreign currency-denominated liabilities used in net investment hedging relationships are recorded in Deposits – Business and Government and Subordinated debentures on our Consolidated Balance Sheets. We assess, both at the inception of the hedge and on an ongoing basis, whether the hedging instruments are 'highly effective' in offsetting changes in the fair value or cash flows of the hedged items. A hedge is regarded as highly effective only if the following criteria are met: (i) at inception of the hedge and throughout its life, the hedge is expected to be highly effective in achieving offsetting changes in fair value or cash flows attributable to the hedged risk, and (ii) actual results of the hedge are within a pre-determined range. We perform effectiveness testing to demonstrate that the relationship has been and is expected to be effective over the remaining term of the hedge. In the case of hedging a forecast transaction, the transaction must have a high probability of occurring and must present an exposure to variations in cash flows that could ultimately affect the reported net profit or loss. Hedge accounting is discontinued when it is determined that the hedging instrument is no longer effective as a hedge, the hedging instrument or hedged item is terminated or sold, or the forecast transaction is no longer deemed highly probable. Refer to Note 9 for the fair value of derivatives and non-derivative instruments categorized by their hedging relationships, as well as derivatives that are not designated in hedging relationships.

Until the hedging relationships impacted by the Interest rate benchmark reform (the Reform) fully transitioned to alternative benchmark rates (ABRs), our prospective effectiveness testing was based on existing hedged cash flows or hedged risks and any ineffectiveness arising from retrospective testing did not result in a discontinuation of the hedge. Additionally, effectiveness testing is applied separately to hedged items referencing ABRs and hedged items referencing interbank offered rates (IBORs), which include USD London Interbank Offered Rate (USD LIBOR) and Canadian Dollar Offered Rate (CDOR), in accordance with the Phase 2 amendments to IFRS 9 Financial Instruments, IAS 39 Financial Instruments: Recognition and Measurement, IFRS 7 Financial Instruments: Disclosures, IFRS 4 Insurance contracts, and IFRS 16 Leases (the Amendments). Subsequently, when these relationships fully transitioned to ABRs, and provided qualifying criteria were met, we amended the related hedge documentation for the ABR risk, including consequential changes to the description of the hedging instrument(s), the hedged item(s), and the method for assessing hedge effectiveness, without discontinuing the existing hedging relationships.

#### Fair value hedges

In a fair value hedging relationship, the carrying value of the hedged item is adjusted for changes in fair value attributable to the hedged risk and recognized in Non-interest income – Other. Changes in fair value of the hedged item, to the extent that the hedging relationship is effective, are offset by changes in the fair value of the hedging derivative, which are also recognized in Non-interest income – Other. When hedge accounting is discontinued, the carrying value of the hedged item is no longer adjusted and the cumulative fair value adjustments to the carrying value of the hedged items are amortized to Non-interest income – Other over the expected remaining life of the hedged items.

We predominantly use interest rate swaps to hedge our exposure to changes in a fixed interest rate instrument's fair value caused by changes in interest rates. Until the hedging relationships impacted by the Reform fully transitioned to ABRs, we applied hedge accounting to IBOR rates which may not have been contractually specified if that rate was separately identifiable and reliably measurable at the inception of the hedge relationship.

#### Cash flow hedges

In a cash flow hedging relationship, the effective portion of the change in the fair value of the hedging derivative, net of taxes, is recognized in OCI and reclassified to profit or loss as the associated hedged forecast transaction occurs, while the ineffective portion is recognized in Non-interest income – Other. When hedge accounting is discontinued, the cumulative amounts previously recognized in OCI are reclassified to Net interest income during the periods when the variability in the cash flows of the hedged item affects Net interest income. Unrealized gains and losses on derivatives are reclassified immediately to Non-interest income – Other when the hedged item is sold or terminated early, or when the forecast transaction is no longer expected to occur.

We predominantly use interest rate swaps to hedge the variability in cash flows related to a variable-rate asset or liability. Until the hedging relationships impacted by the Reform fully transitioned to ABRs, we treated the highly probable hedged IBORs based cash flows of groups of similar assets or liabilities with similar risk characteristics as unchanged as a result of the Reform. In addition, associated cash flow hedge reserves were not recycled into net income solely due to changes related to the transition from IBORs to ABRs. Subsequently, when some items in the group transitioned to ABRs before other items, the individual hedged items were allocated to subgroups based on the benchmark interest rate being hedged. We tested hedge effectiveness based on the defined subgroups, in accordance with the Amendments, if eligibility requirements were met. If a subgroup failed the eligibility requirements, we would have discontinued hedge accounting prospectively for the hedging relationship in its entirety.

#### Net investment hedges

In hedging our foreign currency exposure to a net investment in a foreign operation, the effective portion of foreign exchange gains and losses on the hedging instruments, net of applicable taxes, is recognized in OCI and the ineffective portion is recognized in Non-interest income – Other. The amounts, or a portion thereof, previously recognized in Other components of equity are recognized in Net income on the disposal, or partial disposal, of the foreign operation.

We use foreign exchange contracts and foreign currency-denominated liabilities to manage our foreign currency exposures to net investments in foreign operations having a functional currency other than the Canadian dollar.

#### Guarantees

Financial guarantee contracts are contracts that contingently require us to make specified payments (in cash, other assets, our own shares or provision of services) to reimburse the holder for a loss it incurs because a specified debtor fails to make payment when due in accordance with the original or modified terms of a debt instrument. Liabilities are recognized on our Consolidated Balance Sheets at the inception of a guarantee for the fair value of the obligation undertaken in issuing the guarantee. Financial guarantees are subsequently remeasured at the higher of (i) the amount of expected credit losses and (ii) the amount initially recognized less, when appropriate, the cumulative amount of income recognized.

If the financial guarantee contract meets the definition of a derivative, it is measured at fair value at each balance sheet date and reported under Derivatives on our Consolidated Balance Sheets.

#### Insurance and reinsurance contracts

# Changes in accounting policies

During the first quarter of 2024, we adopted IFRS 17 *Insurance Contracts* (IFRS 17), replacing IFRS 4 *Insurance Contracts* (IFRS 4). Our updated accounting policies for insurance and reinsurance contracts are described below. We have applied IFRS 17 retrospectively and restated comparative period results beginning November 1, 2022, where applicable. Adjustments to the carrying amounts of insurance and reinsurance contracts at the transition date of November 1, 2022 were recognized in Retained earnings.

As permitted by the transition provisions of IFRS 17, we reclassified certain financial assets between fair value classification categories at the date of initial application of IFRS 17 as described below. The reclassifications resulted in no adjustments to carrying amounts of financial assets as at November 1, 2023. Retained earnings and Other components of equity as at November 1, 2023 were adjusted as a result with no net impact to total equity. We elected not to restate comparative period results for these changes and accordingly, comparative period information for the impacted financial assets prior to November 1, 2023 is presented in accordance with our previous classifications.

#### Updated accounting policies

Contracts under which we accept significant insurance risk from a policyholder by agreeing to compensate the policyholder if a specified uncertain future event adversely affects the policyholder are insurance contracts, which includes reinsurance contracts issued. Contracts under which we transfer significant insurance risk to a reinsurer that compensates us for claims relating to underlying insurance contracts issued by us are reinsurance contracts held, and are accounted for separately from the underlying insurance contracts to which they relate. Embedded derivatives, investment components and promises to provide non-insurance services are separated from the insurance or reinsurance contract provided specific criteria are met. Insurance and reinsurance contracts are aggregated into portfolios that are subject to similar risks and are managed together, and then divided into groups based on the period of issuance and expected profitability. Groups are separately recognized and measured using one of three measurement models depending on the characteristics of the contracts:

- For insurance contracts with direct participating features (applicable primarily to our segregated fund insurance contracts), the variable fee approach (VFA) is applied.
- For insurance contracts and reinsurance contracts held with a short duration of one year or less (applicable primarily to our creditor reinsurance contracts issued, group life and health insurance contracts and travel insurance contracts), the premium allocation approach (PAA) is applied.
- The general measurement method (GMM) is applied to all remaining contracts.

Under the GMM and VFA, the carrying amount of a group of insurance or reinsurance contracts is measured as the sum of the fulfilment cash flows and the contractual service margin (CSM). The carrying amount is also the sum of the liability for remaining coverage and the liability for incurred claims. The liability for remaining coverage comprises the fulfilment cash flows that relate to services that will be provided under the contracts in future periods and any remaining CSM at that date. The liability for incurred claims includes the fulfilment cash flows for incurred claims and expenses that have not yet been paid, including claims that have been incurred but not yet reported. The fulfilment cash flows consist of the present value of future cash flows and a risk adjustment for non-financial risk, discounted using the current rates as at the reporting date determined using the discount rate methodology disclosed in Note 15. The estimates of future cash flows consider probability-weighted scenarios and include all future cash flows that are within the contract boundary. The risk adjustment for non-financial risk represents the compensation that we require for bearing the uncertainty about the amount and timing of cash flows that arise from non-financial risk as the insurance contract is fulfilled and is estimated using the margin approach disclosed in Note 15. The measurement of the groups of contracts requires the use of judgment in setting methodologies and assumptions for morbidity, mortality, longevity, policy lapses and other policyholder behaviour, policy dividends and directly attributable expenses, including acquisition costs allocated using a systematic and rational method. Changes to the underlying assumptions and estimates may have a significant effect on Non-interest income – Insurance service result and Insurance investment result. Subsequent changes in fulfilment cash flows related to future services adjust the CSM, unless the group is onerous in which case such changes are recognized in Non-interest income – Insurance service result along with changes related to past or current services.

For insurance contracts, the CSM represents the unearned profit (net inflows) for providing insurance coverage. If there is a net outflow at the initial recognition of the group, the group is onerous and the net outflow is recognized in Non-interest income – Insurance service result immediately. For reinsurance contracts held, the CSM represents the net cost or net gain of purchasing reinsurance. The CSM for insurance and reinsurance contacts are released into income based on coverage units, which represent the quantity of service (insurance coverage as well as investment-return and investment-related services) provided by a group of contracts and are determined by considering the quantity of benefits provided under each contract and the expected coverage duration. Under the GMM, the CSM is adjusted for interest accretion using the discount rates that were locked-in at initial recognition of the groups or the discount rates that were locked-in at the transition date for groups where the fair value approach was applied. Under the VFA, the CSM is adjusted for changes in the amount of our share of the fair value of the underlying items, while the changes to the fair value of the underlying items, reflecting changes in the obligation to pay the policyholder, are recognized in Non-interest income – Insurance investment result.

Under the PAA, the liability for remaining coverage for each group is measured as the premiums received less insurance revenue recognized for services provided, while the liability for incurred claims is measured as the fulfillment cash flows for incurred claims.

Losses from the recognition of onerous groups of insurance contracts, regardless of the measurement model applied, are recognized in Non-interest income – Insurance service result immediately. Any losses recognized relating to future service can be reversed in subsequent periods if the group of contracts is no longer onerous.

The insurance and reinsurance contract balances are remeasured at the end of each reporting period. We have elected to update the accounting estimates made in the previous interim period when remeasuring the insurance and reinsurance contracts in subsequent interim and annual reporting periods.

An insurance or reinsurance contract is derecognized when it is extinguished or modified such that the modification results in a change in the measurement model, a substantially different contract boundary or a change in the scope of the applicable standard for measuring a component of the contract.

Insurance service result comprises Insurance revenue less Insurance service expense and Net income (expense) from reinsurance contracts held.

- Insurance revenue is recognized as we provide insurance contract services under the groups of insurance contracts. For contracts measured using the PAA, the insurance revenue is generally recognized based on allocating expected premium receipts over the passage of time. For contracts measured using the GMM and VFA, insurance revenue represents the amount of consideration we expect to be entitled to in exchange for services in the period, which includes expected claims and expenses directly attributable to fulfilling insurance contracts (excluding any investment components), release of the risk adjustment for the period, CSM amortization to reflect services provided in the period, an allocation of premiums that relates to recovering insurance acquisition expenses and experience adjustments for premium receipts relating to current or past services.
- Insurance service expense arising from insurance contracts includes incurred claims and other directly attributable
  expenses in the current period (excluding investment components), amortization and impairment losses relating to
  insurance acquisition cash flows where applicable, changes relating to past or current services and changes in loss
  components of onerous groups of contracts.
- Net income (expense) from reinsurance contracts held represents the amounts recovered from the reinsurers less the allocation of premiums paid on reinsurance contracts held.

Insurance investment result comprises Net investment income, Net insurance finance income (expense) and Net reinsurance finance income (expense) from reinsurance contracts held.

- Net investment income primarily comprises interest and dividend income and net gains (losses) on financial
  instruments, including segregated fund assets, and derivatives relating to the Insurance segment. Financial assets
  supporting the Insurance segment are primarily measured at FVTPL and FVOCI.
- Insurance and reinsurance finance income (expense) represents the net effect of and changes in the time value of money (including the time value of money relating to risk adjustment on non-financial risks) and financial risks on insurance contracts and reinsurance contracts held, respectively.

#### Impact of IFRS 17 transition excluding the impact of reclassifications of financial assets

Upon the adoption of IFRS 17, we applied IFRS 17 retrospectively by adjusting our Consolidated Balance Sheets as at November 1, 2022 and restating the comparative information for the year ended October 31, 2023. The full retrospective approach was applied for all insurance and reinsurance contracts unless it was impracticable to do so. The full retrospective approach was applied to all contracts measured using the PAA and all new contracts issued on and after November 1, 2022 measured using the GMM and VFA as if IFRS 17 had always been applied. Due to data availability and the inability to use hindsight, the fair value approach was applied to contracts issued before November 1, 2022 that were measured under the GMM and VFA. Under the fair value approach, each portfolio comprises only one group, and the CSM was calculated as the difference between the fair value of a group of contracts and the fulfilment cash flows using reasonable and supportable information available at the transition date. To determine the fair value of a group of contracts, the requirements of IFRS 13 Fair Value Measurement were applied. The adjusted fulfillment cash flows approach was used to calculate the fair value of groups of insurance contracts at the transition date. This valuation technique adjusts the future cash flows for changes in the cost of capital to reflect what a market participant would require for accepting such contract obligations. Key assumptions involve the weighted average cost of capital, required capital targets and underlying insurance assumptions from a market participant's perspective. The fulfilment cash flows and discount rates were determined as at the transition using the policies noted above.

The adoption of IFRS 17 resulted in a reduction in Retained earnings of \$2.4 billion, net of taxes, as at November 1, 2022. This is attributable to the establishment of the CSM and other remeasurement changes to insurance and reinsurance contracts and related tax effects. The CSM of all insurance contracts net of reinsurance contracts held as at November 1, 2022 was \$1.8 billion. The following details the selected balances and totals impacted on our Consolidated Balance Sheets as at November 1, 2022:

(Millions of Canadian dollars)	As at November 1, 2022 before transition	Transition adjustments		As at ber 1, 2022 transition
Assets				
Segregated fund net assets (1)	\$ 2,638	\$ (2,638)	\$	-
Other				
Other assets (2)	80,300	4,261		84,561
Total assets	\$ 1,917,219	\$ 1,623	\$ 1,	918,842
Liabilities				
Segregated fund net liabilities (3)	\$ 2,638	\$ (2,638)	\$	_
Other		, ,		
Insurance claims and policy benefit liabilities (4)	11,511	(11,511)		-
Insurance contract liabilities (4)	_	18,226		18,226
Other liabilities (5)	95,235	(95)		95,140
Total liabilities	\$ 1,809,044	\$ 3,982	\$ 1,	813,026
Total equity	108,175	(2,359)		105,816
Total liabilities and equity	\$ 1,917,219	\$ 1,623	\$ 1,	918,842

- (1) Segregated fund net assets are now presented within Other assets.
- (2) The increase is primarily attributable to the inclusion of segregated fund net assets, the increases in insurance contract assets and reinsurance contracts held assets, and the tax effects of the IFRS 17 transition adjustment.
- (3) Segregated fund insurance contracts are now presented within Insurance contract liabilities.
- (4) Insurance claims and policy benefit liabilities measured under IFRS 4 is replaced with Insurance contract liabilities measured under IFRS 17. The increase in these balances is attributable to presentation changes and remeasurement impacts including the establishment of the CSM for in-force contracts at transition.
- (5) Certain liabilities that were previously presented in Other liabilities are now included in the measurement of insurance contracts or reinsurance contracts held.

#### Impact of reclassifications of financial assets from IFRS 17 transition

As permitted by IFRS 17, we reclassified certain eligible financial assets held in respect of activities that relate to insurance contracts upon the adoption of IFRS 17. The changes were primarily a result of changes to the business models based on facts and circumstances that existed as at November 1, 2023, the date of the initial application of IFRS 17. We have applied these changes retrospectively by adjusting our Consolidated Balance Sheet as at November 1, 2023 with no restatement of comparative information. The following were reclassified as at November 1, 2023:

- \$8.3 billion of securities and \$2.0 billion of loans from designated as FVTPL to classified as FVTPL;
- \$0.5 billion of securities and \$0.3 billion of loans from designated as FVTPL to classified as FVOCI;
- \$1.7 billion of securities from classified as FVOCI to classified as FVTPL; and
- \$0.3 billion of securities from classified as FVTPL to designated as FVOCI.

The impacts of the reclassifications resulted in an increase in Other components of equity by \$656 million, net of taxes, and a decrease in Retained earnings by the same amount, with no net impact to our total equity nor the carrying amounts of those assets.

# Employee benefits – Pensions and other post-employment benefits

Our defined benefit pension expense, which is included in Non-interest expense – Human resources, consists of the cost of employee pension benefits for the current year's service, net interest on the net defined benefit liability (asset), past service cost and gains or losses on settlement. Remeasurements of the net defined benefit obligation, which comprise actuarial gains and losses and return on plan assets (excluding amounts included in net interest on the net defined benefit liability), are recognized immediately in OCI in the period in which they occur. Actuarial gains and losses comprise experience adjustments (the effects of differences between the previous actuarial assumptions and what has actually occurred), as well as the effects of changes in actuarial assumptions. Amounts recognized in OCI will not be reclassified subsequently to net income. Past service cost is the change in the present value of the defined benefit obligation resulting from a plan amendment or curtailment and is charged immediately to income.

For each defined benefit pension plan, we recognize the present value of our defined benefit obligations less the fair value of the plan assets as a defined benefit liability reported in Other liabilities on our Consolidated Balance Sheets. For plans where there is a net defined benefit asset, the amount is reported as an asset in Other assets on our Consolidated Balance sheets.

The calculation of defined benefit expenses and obligations requires significant judgment as the recognition is dependent on discount rates and various actuarial assumptions such as healthcare cost trend rates, projected salary increases, retirement age and mortality and termination rates. Due to the long-term nature of these plans, such estimates and assumptions are subject to inherent risks and uncertainties. For our pension and other post-employment benefit plans, the discount rate is determined by reference to market yields on high quality corporate bonds. Since the discount rate is based on currently available yields, and involves management's assessment of market liquidity, it is only a proxy for future yields. Actuarial assumptions, set in accordance with current practices in the respective countries of our plans, may differ from actual experience as country specific statistics are only estimates of future employee behaviour. These assumptions are determined by management and are reviewed by actuaries at least annually. Changes to any of the above assumptions may affect the amounts of benefits obligations, expenses and remeasurements that we recognize.

Our contributions to defined contribution pension plans are expensed when employees have rendered services in exchange for such contributions. Defined contribution pension expense is included in Non-interest expense – Human resources.

#### Share-based compensation

We offer share-based compensation plans to certain key employees and to our non-employee directors.

To account for stock options granted to employees, compensation expense is recognized over the applicable vesting period with a corresponding increase in equity. Fair value is determined by using option valuation models, which take into account the exercise price of the option, the current share price, the risk free interest rate, the expected volatility of the share price over the life of the option and other relevant factors. When the options are exercised, the exercise price proceeds together with the amount initially recorded in equity are credited to common shares. Our other share-based compensation plans include performance deferred share plans and deferred share unit plans for key employees (the Plans). The obligations for the Plans are accrued over their vesting periods. The Plans are generally settled in cash.

For cash-settled awards, our accrued obligations are adjusted to their fair value at each balance sheet date. For share-settled awards, our expected obligations recognized in equity are based on the fair value of our common shares at the date of grant. Changes in our obligations, net of related hedges, are recorded as Non-interest expense – Human resources in our Consolidated Statements of Income with a corresponding increase in Other liabilities for cash-settled awards and in Retained earnings for share-settled awards. Compensation expense is recognized in the year the awards are earned by plan participants based on the vesting schedule of the relevant plans, net of estimated forfeitures.

The compensation cost attributable to options and awards granted to employees who are eligible to retire or will become eligible to retire during the vesting period, is recognized immediately if the employee is eligible to retire on the grant date or over the period between the grant date and the date the employee becomes eligible to retire.

Our contributions to the employee savings and share ownership plans are expensed as incurred.

#### Income taxes

Income tax comprises current tax and deferred tax and is recognized in our Consolidated Statements of Income except to the extent that it relates to items recognized directly in equity, in which case it is recognized in equity.

Current income tax payable on profits is recognized as an expense based on the applicable tax laws in each jurisdiction in the period in which profits arise, calculated using tax rates enacted or substantively enacted by the balance sheet date. Deferred tax is recognized on temporary differences between the carrying amounts of assets and liabilities for accounting and tax purposes. A deferred income tax asset or liability is determined for each temporary difference, except for earnings related to our subsidiaries, branches, associates and interests in joint ventures where the temporary differences will not reverse in the foreseeable future and we have the ability to control the timing of reversal. Deferred tax assets and liabilities are determined based on the tax rates that are expected to be in effect in the period that the asset is realized or the liability is settled, based on tax rates and tax laws that have been enacted or substantively enacted at the balance sheet date. Current tax assets and liabilities are offset when they are levied by the same taxation authority on either the same taxable entity or different taxable entities within the same tax reporting group (which intends to settle on a net basis), and when there is a legal right to offset. Deferred tax assets and liabilities are offset when the same conditions are satisfied. Our Consolidated Statements of Income include items that are non-taxable or non-deductible for income tax purposes and, accordingly, this causes the income tax provision to be different from what it would be if based on statutory rates.

Deferred income taxes accumulated as a result of temporary differences and tax loss carryforwards are included in Other assets and Other liabilities. On a quarterly basis, we review our deferred income tax assets to determine whether it is probable that the benefits associated with these assets will be realized; this review involves evaluating both positive and negative evidence.

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 to determine our tax provision, which includes our best estimate of uncertain tax positions that are under audit or appeal by the relevant tax 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 tax positions by the relevant tax authorities.

The determination of our deferred tax asset or liability also requires significant management judgment as the recognition is dependent on our projection of future taxable profits and tax rates that are expected to be in effect in the period the asset is realized or the liability is settled. Any changes in our projection will result in changes in deferred tax assets or liabilities on our Consolidated Balance Sheets, and also deferred tax expense on our Consolidated Statements of Income.

The IASB issued amendments to IAS 12 *Income Taxes* (*IAS* 12) in May 2023 to address the *Pillar Two Model Rules* for *International Tax Reform*, including a global 15% minimum tax. The amendments introduced, with immediate effect, a temporary recognition exception in relation to accounting and disclosure for deferred taxes arising from the implementation of the international tax reform, which we have applied.

# Business combinations, goodwill and other intangibles

All business combinations are accounted for using the acquisition method. Non-controlling interests, if any, are recognized at their proportionate share of the fair value of identifiable assets and liabilities, unless otherwise indicated. Identifiable intangible assets are recognized separately from goodwill and included in Other intangibles. Goodwill represents the excess of the price paid for the business acquired over the fair value of the net identifiable assets acquired on the date of acquisition.

#### Goodwill

Goodwill is allocated to cash-generating units or groups of cash-generating units for the purpose of impairment testing, which is undertaken at the lowest level at which goodwill is monitored for internal management purposes. Impairment testing is performed annually as at August 1, or more frequently if there are objective indicators of impairment, by comparing the recoverable amount of a cash-generating unit (CGU) with its carrying amount. The recoverable amount of a CGU is the higher of its value in use (VIU) and its fair value less costs of disposal (FVLCD). The fair value of a CGU is estimated using valuation techniques such as a discounted cash flow method, adjusted to reflect the considerations of a prospective third-party buyer. External evidence such as binding sale agreements or recent transactions for similar businesses within the same industry is considered to the extent that it is available.

Significant judgment is involved in estimating the model inputs used to determine the recoverable amount of our CGUs, in particular future cash flows, discount rates and terminal growth rates, due to the uncertainty in the timing and amount of cash flows and the forward-looking nature of these inputs. Future cash flows are based on financial plans agreed by management which are estimated based on forecast results, business initiatives, planned capital investments and returns to shareholders. Discount rates are based on the bank-wide cost of capital, adjusted for CGU-specific risks and currency exposure as reflected by differences in expected inflation. Bank-wide cost of capital is based on the Capital Asset Pricing Model, the Dividend Growth Model and peer analysis. CGU-specific risks include country risk, business/operational risk, geographic risk (including political risk, devaluation risk and government regulation), currency risk and price risk (including product pricing risk and inflation). Terminal growth rates are based on the long-term steady state growth expectations in the countries within which the CGU operates. If the future cash flows and other assumptions in future periods deviate significantly from the current amounts used in our impairment testing, the value of our goodwill could become impaired, with any such impairment loss recognized in Non-interest expense.

The carrying amount of a CGU includes the carrying amount of assets, liabilities and goodwill allocated to the CGU. If the recoverable amount is less than the carrying value, the impairment loss is allocated first to reduce the carrying amount of any goodwill allocated to the CGU and then to the other non-financial assets of the CGU proportionately based on the carrying amount of each asset. Any impairment loss is charged to income in the period in which the impairment is identified. Goodwill is stated at cost less accumulated impairment losses. Subsequent reversals of goodwill impairment are prohibited.

Upon disposal of a portion of a CGU, the carrying amount of goodwill related to the portion of the CGU sold is included in the determination of gains or losses on disposal. The carrying amount is determined based on the relative fair value of the disposed portion to the total CGU.

#### Other intangibles

Intangible assets represent identifiable non-monetary assets and are acquired either separately or through a business combination, or generated internally. Intangible assets acquired through a business combination are recognized separately from goodwill when they are separable or arise from contractual or other legal rights, and their fair value can be measured reliably. The cost of a separately acquired intangible asset includes its purchase price and directly attributable costs of preparing the asset for its intended use. In respect of internally generated intangible assets, cost includes all directly attributable costs necessary to create, produce and prepare the asset to be capable of operating in the manner intended by management. Research and development costs that are not eligible for capitalization are expensed. After initial recognition, an intangible asset is carried at its cost less any accumulated amortization and accumulated impairment losses, if any. Intangible assets with a finite-life are amortized on a straight-line basis over their estimated useful lives as follows: computer software – 3 to 10 years; and customer list and relationships – 7 to 20 years. Intangible assets with indefinite useful lives represent mutual fund management contracts.

Intangible assets are assessed for indicators of impairment at each reporting period. If there is an indication that an intangible asset may be impaired, an impairment test is performed by comparing the carrying amount of the intangible asset to its recoverable amount. Where it is not possible to estimate the recoverable amount of an individual asset, we estimate the recoverable amount of the CGU to which the asset belongs. If the recoverable amount of the asset (or CGU) is less than its carrying amount, the carrying amount of the intangible asset is written down to its recoverable amount as an impairment loss.

An impairment loss recognized previously is reversed if there is a change in the estimates used to determine the recoverable amount of the asset (or CGU) since the last impairment loss was recognized. If an impairment loss is subsequently reversed, the carrying amount of the asset (or CGU) is revised to the lower of its recoverable amount and the carrying amount that would have been determined (net of amortization) had there been no prior impairment.

Due to the subjective nature of these estimates, significant judgment is required in determining the useful lives and recoverable amounts of our intangible assets, and assessing whether certain events or circumstances constitute objective evidence of impairment. Estimates of the recoverable amounts of our intangible assets rely on certain key inputs, including future cash flows and discount rates. Future cash flows are based on sales projections and allocated costs which are estimated based on forecast results and business initiatives. Discount rates are based on the bank-wide cost of capital, adjusted for asset-specific risks. Changes in these assumptions may impact the amount of impairment loss recognized in Non-interest expense.

#### Other

#### Translation of foreign currencies

Monetary assets and liabilities denominated in foreign currencies are translated into Canadian dollars at rates prevailing at the balance sheet date. Foreign exchange gains and losses resulting from the translation and settlement of these items are recognized in Non-interest income in the Consolidated Statements of Income.

Non-monetary assets and liabilities that are measured at historical cost are translated into Canadian dollars at historical rates.

Assets and liabilities of our foreign operations with functional currencies other than Canadian dollars are translated into Canadian dollars at rates prevailing at the balance sheet date, and income and expenses of these foreign operations are translated at average rates of exchange for the reporting period.

Unrealized gains or losses arising as a result of the translation of our foreign operations along with the effective portion of related hedges are reported in Other components of equity on an after-tax basis. Upon disposal or partial disposal of a foreign operation, an appropriate portion of the accumulated net translation gains or losses is included in Non-interest income.

#### Premises and equipment

Premises and equipment includes land, buildings, leasehold improvements, computer equipment, furniture, fixtures and other equipment, and are stated at cost less accumulated depreciation, except for land which is not depreciated, and accumulated impairment losses. Cost comprises the purchase price, any costs directly attributable to bringing the asset to the location and condition necessary for its intended use, and the initial estimate of any disposal costs. Depreciation is recorded principally on a straight-line basis over the estimated useful lives of the assets, which are 25 to 50 years for buildings, 3 to 10 years for computer equipment, and 5 to 10 years for furniture, fixtures and other equipment. The amortization period for leasehold improvements is the lesser of the useful life of the leasehold improvements or the lease term plus the first renewal period, if reasonably assured of renewal. Depreciation methods, useful lives, and residual values are reassessed at each reporting period and adjusted as appropriate. Gains and losses on disposal are recorded in Non-interest income.

Premises and equipment are assessed for indicators of impairment at each reporting period. If there is an indication that an asset may be impaired, an impairment test is performed by comparing the asset's carrying amount to its recoverable amount.

After the recognition of impairment, the depreciation charge is adjusted in future periods to reflect the asset's revised carrying amount. If an impairment is later reversed, the carrying amount of the asset is revised to the lower of the asset's recoverable amount and the carrying amount that would have been determined (net of depreciation) had there been no prior impairment loss. The depreciation charge in future periods is adjusted to reflect the revised carrying amount.

Right-of-use assets are also included in premises and equipment.

#### 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, 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. Costs related to dismantling and removing leasehold improvements are capitalized as part of the leasehold improvement asset (rather than the right-of-use asset of the lease) when the leasehold improvements are separately capitalized.

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 above.

#### **Provisions**

Provisions are liabilities of uncertain timing or amount and are recognized when we have a present legal or constructive obligation as a result of a past event, it is probable that an outflow of resources will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation. Provisions are measured as the best estimate of the consideration required to settle the present obligation at the reporting date. Significant judgment is required in determining whether a present obligation exists and in estimating the probability, timing and amount of any outflows. We record provisions related to litigation, asset retirement obligations and other items.

We are required to estimate the results of ongoing legal proceedings, and expenses to be incurred to dispose of capital assets. The forward-looking nature of these estimates requires us to use a significant amount of judgment in projecting the timing and amount of future cash flows. We record our provisions on the basis of all available information at the end of the reporting period and make adjustments on a quarterly basis to reflect current expectations. It may not be possible to predict the resolution of these matters or the timing of their ultimate resolution. Should actual results differ from our expectations, we may incur expenses in excess of the provisions recognized. Where appropriate, we apply judgment in limiting the extent of our provisions-related disclosures as not to prejudice our positions in matters of dispute.

When some or all of the economic benefits required to settle a provision are expected to be recovered from a third party, such as an insurer, a separate asset is recognized if it is virtually certain that reimbursement will be received.

#### Commissions and fees

Commissions and fees primarily relate to Investment management and custodial fees, Mutual fund revenue, Securities brokerage commissions, Services charges, Underwriting and other advisory fees, Card service revenue and Credit fees, and are recognized based on the applicable service contracts with clients.

Investment management and custodial fees and Mutual fund revenue are generally calculated as a percentage of daily or period-end net asset values (NAV) based on the terms of the contract with clients and are received monthly, quarterly, semiannually or annually, depending on the terms of the contract. Investment management and custodial fees are generally derived from assets under management (AUM) when our clients solicit the investment capabilities of an investment manager or from assets under administration (AUA) where the investment strategy is directed by the client or a designated third-party manager. Mutual fund revenue is generally derived from the daily NAV of the mutual funds. Investment management and custodial fees and Mutual fund revenue are recognized over time when the service is provided to the client, provided that it is highly probable that a significant reversal in the amount of revenue recognized will not occur.

Commissions earned on Securities brokerage services and Service charges that are related to the provision of specific transaction-type services are recognized when the service is fulfilled. Where services are provided over time, revenue is recognized as the services are provided.

Underwriting and other advisory fees primarily relate to underwriting of new issuances of debt or equity and various advisory services. Underwriting fees are generally expressed as a percentage of the funds raised through issuance and are recognized when the service has been completed. Advisory fees vary depending on the scope and type of engagement and can be fixed in nature or contingent on a future event. Advisory fees are recognized over the period in which the service is provided and are recognized only to the extent that it is highly probable that a significant reversal in the amount of revenue will not occur.

Card service revenue primarily includes interchange revenue and annual card fees. Interchange revenue is calculated as a fixed percentage of the transaction amount and recognized when the card transaction is settled. Annual card fees are fixed fees and are recognized over a 12 month period.

Credit fees are primarily earned for arranging syndicated loans and making credit available on undrawn facilities. The timing of the recognition of credit fees varies based on the nature of the services provided.

When service fees and other costs are incurred in relation to commissions and fees earned, we record these costs on a gross basis in either Non-interest expense – Other or Non-interest expense – Human resources based on our assessment of whether we have primary responsibility to fulfill the contract with the client and have discretion in establishing the price for the commissions and fees earned, which may require judgment.

#### Earnings per share

Earnings per share is computed by dividing Net income available to common shareholders by the weighted average number of common shares outstanding for the period. Net income available to common shareholders is determined after deducting dividend entitlements of preferred shareholders and distributions on other equity instruments, any gains (losses) on redemption of preferred shares and other equity instruments net of related income taxes and the net income attributable to non-controlling interests.

Diluted earnings per share reflects the potential dilution that could occur if additional common shares are assumed to be issued under securities or contracts that entitle their holders to obtain common shares in the future, to the extent such entitlement is not subject to unresolved contingencies. For contracts that may be settled in cash or in common shares at our option, diluted earnings per share is calculated based on the assumption that such contracts will be settled in shares. Income and expenses associated with these types of contracts are excluded from the Net income available to common shareholders, and the additional number of shares that would be issued is included in the diluted earnings per share calculation. For stock options whose exercise price is less than the average market price of our common shares, using the treasury stock method, they are assumed to be exercised and the proceeds are used to repurchase common shares at the average market price for the period. The incremental number of common shares issued under stock options and repurchased from proceeds is included in the calculation of diluted earnings per share.

#### Share capital and other equity instruments

We classify a financial instrument that we issue as a financial asset, financial liability or an equity instrument in accordance with the substance of the contractual arrangement.

Our common shares held by us are classified as treasury shares in equity and accounted for at weighted average cost. Upon the sale of treasury shares, the difference between the sale proceeds and the cost of the shares is recognized in Retained earnings. Financial instruments issued by us are classified as equity instruments when there is no contractual obligation to transfer cash or other financial assets. Incremental costs directly attributable to the issue of equity instruments are included in equity as a deduction from the proceeds, net of tax. Financial instruments that will be settled by a variable number of our common shares upon their conversion by the holders as well as the related accrued distributions are classified as liabilities on our Consolidated Balance Sheets. Dividends and yield distributions on these instruments are classified as Interest expense in our Consolidated Statements of Income. For compound instruments comprised of both liability and equity components, the liability component is initially measured at fair value with any residual amount assigned to the equity component.

#### Future changes in accounting policy and disclosure

#### Amendments to the Classification and Measurement of Financial Instruments

In May 2024, the IASB issued Amendments to the Classification and Measurement of Financial Instruments which amends IFRS 9 Financial Instruments and IFRS 7 Financial Instruments: Disclosures (the Amendments). The Amendments clarify classification guidance for financial assets with environmental, social and governance-linked features and introduce additional related disclosure requirements. The Amendments will be effective for us on November 1, 2026. We are currently assessing the impact of adopting the Amendments on our Consolidated Financial Statements.

#### IFRS 18 Presentation and Disclosure in Financial Statements (IFRS 18)

In April 2024, the IASB issued IFRS 18, which sets out requirements for the presentation and disclosure of information in the financial statements. IFRS 18 will replace IAS 1 Presentation of Financial Statements and accompanies limited amendments to other standards which will be effective upon the adoption of the new standard. The standard introduces new defined subtotals to be presented in the Consolidated Statements of Income, disclosure of management-defined performance measures and requirements for grouping of information. This standard will be effective for us on November 1, 2027. We are currently assessing the impact of adopting this standard on our Consolidated Financial Statements.

#### Updates related to interest rate benchmark reform

To manage our transition to ABRs, we implemented a comprehensive enterprise-wide program and governance structure that addresses the key areas of impact including contract remediation, funding and liquidity planning, risk management, financial reporting and valuation, systems, processes and client education and communication. Our remaining transition activities were focused on two broad streams of work: (i) developing new ABR linked products, and (ii) conversion of existing CDOR based contracts to ABRs.

On June 28, 2024, the publication of all remaining Canadian Dollar Offered Rate (CDOR) settings was ceased and relatedly we have ceased our Bankers' Acceptance-based lending. Consistent with our transition plan, our exposure to non-derivative financial assets, non-derivative financial liabilities, derivative notional and undrawn balances of loan commitments referencing CDOR and interest rates substantially similar to CDOR is no longer material to our financial statements (October 31, 2023 – \$29.5 billion, \$24.7 billion, \$2,154.3 billion, and \$40.0 billion, respectively).

We continue to manage significant exposures to benchmarks that have no announced plans for cessation or further reform, including the EURO Interbank Offered Rate (EURIBOR) and Australian Bank Bill Swap Rate (BBSW).

#### 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. For measurement purposes, they are carried at fair value when conditions requiring separation are met.

				As at Oct	ober 31, 2024			
		Carrying value	and fair valu	e	Carrying value	Fair value		
(Millions of Canadian dollars)	Financial instruments classified 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	\$ -	\$ 53,996	\$ -	\$ -	\$ 12,024	\$ 12,024	\$ 66,020	\$ 66,020
Securities Trading Investment, net of applicable allowance	182,346	954	155,118	1,242	100,258	96,336	183,300 256,618	183,300 252,696
	182,346	954	155,118	1,242	100,258	96,336	439,918	435,996
Assets purchased under reverse repurchase agreements and securities borrowed	284,311	-	-	-	66,492	66,492	350,803	350,803
Loans, net of applicable allowance Retail Wholesale	915 6,177	- 2,030	580 1,003	- -	622,098 348,577	619,320 345,561	623,593 357,787	620,815 354,771
	7,092	2,030	1,583	_	970,675	964,881	981,380	975,586
Other Derivatives Other assets (1)	150,612 11,770	- -	_ _	- -	50,093	50,093	150,612 61,863	150,612 61,863
Financial liabilities Deposits								
Personal Business and government (2) Bank (3)	\$ 508 191 -	\$ 33,799 156,238 10,530			\$ 487,832 683,241 37,192	\$ 490,170 684,748 37,183	\$ 522,139 839,670 47,722	\$ 524,477 841,177 47,713
	699	200,567			1,208,265	1,212,101	1,409,531	1,413,367
Other Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities	35,286	-			-	-	35,286	35,286
loaned Derivatives Other liabilities (4) Subordinated debentures	163,763 (1,407)	270,663 - - -			34,658 - 69,597 13,546	34,658 - 69,850 13,602	305,321 163,763 68,190 13,546	305,321 163,763 68,443 13,602

			As	at October 31, 2	023 (Restated – No	ote 2)		
		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	instruments	Total carrying amount	Total fair value
Financial assets Interest-bearing deposits with banks	\$ -	\$ 60,856	\$ -	\$ -	\$ 10,230	\$ 10,230 \$	71,086	\$ 71,086
Securities Trading Investment, net of applicable allowance	180,651 -	9,500	- 127,624	- 842	- 91,113	- 83,667	190,151 219,579	190,151 212,133
	180,651	9,500	127,624	842	91,113	83,667	409,730	402,284
Assets purchased under reverse repurchase agreements and securities borrowed	285,869	-	-	-	54,322	54,322	340,191	340,191
Loans, net of applicable allowance Retail Wholesale	114 5,629	362 3,619	280 597	- -	566,376 275,796		567,132 285,641	543,236 278,688
	5,743	3,981	877	-	842,172	811,323	852,773	821,924
Other Derivatives Other assets (1)	142,450 7,579	- 5		-	- 68,450	- 68,450	142,450 76,034	142,450 76,034
Financial liabilities Deposits Personal Business and government (2) Bank (3)	\$ 109 174 -	\$ 26,702 137,454 11,462			\$ 415,135 607,447 33,204	605,260	441,946 745,075 44,666	\$ 439,697 742,888 44,622
	283	175,618			1,055,786	1,051,306	1,231,687	1,227,207
Other Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities	33,651	-			_	_	33,651	33,651
loaned Derivatives Other liabilities (4) Subordinated debentures	- 142,629 (937) -	298,679 - 11 -			36,559 - 92,539 11,386	92,441	335,238 142,629 91,613 11,386	335,238 142,629 91,515 11,213

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

#### Financial assets designated as fair value through profit or loss

For our financial assets designated as FVTPL, we measure the change in fair value attributable to changes in credit risk as the difference between the total change in the fair value of the instrument during the period and the change in fair value calculated using the appropriate risk-free yield curves. For the year ended October 31, 2024, the change in fair value during the period attributable to changes in credit risk for positions still held was a gain of \$45 million and the cumulative change in fair value attributable to changes in credit risk for positions still held was a loss of \$9 million. For the year ended October 31, 2023, the change in fair value during the period attributable to changes in credit risk for positions still held was a gain of \$360 million and the cumulative change in fair value attributable to changes in credit risk for positions still held was a loss of \$102 million. As at October 31, 2024, the extent to which credit derivatives or similar instruments mitigate the maximum exposure to credit risk was \$954 million (October 31, 2023 – \$692 million).

#### Financial liabilities designated as fair value through profit or loss

For our financial liabilities designated as FVTPL, we take into account changes in our own credit spread and the expected duration of the instrument to measure the change in fair value attributable to changes in credit risk.

			As at or l	for the ye	ır ended Octob	er 31, 2	024 (1	)		
	Contractual maturity				Difference between rying value contractual —	to ch	nange	n fair value s in credit or position	risk includ	ded
(Millions of Canadian dollars)	amount	Co	arrying value	matu	rity amount	Dur	ing th	e period	Cumulo	ative (2)
Term deposits Personal Business and government (3) Bank (4)	\$ 33,552 162,648 10,520	\$	33,799 156,238 10,530	\$	247 (6,410) 10	:	\$	221 1,204 –	\$	163 177 -
	206,720		200,567		(6,153)			1,425		340
Obligations related to assets sold under repurchase agreements and securities loaned Other liabilities	270,625		270,663		38 -			-		-
	\$ 477,345	\$	471,230	\$	(6,115)		\$	1,425	\$	340

		As at o	r for the ye	ear ended Octob	er 31, 2023 (1)			
(Millions of Canadian dollars)	Contractual maturity amount	arrying value	and	Difference between arrying value contractual — urity amount	to change	n fair value es in credit for position	risk in ns still	cluded
	dillodit	 difying value	man	arity dillodilt	During ti	ie period	Cu	mulutive (2)
Term deposits Personal Business and government (3) Bank (4)	\$ 27,131 147,844 11,485	\$ 26,702 137,454 11,462	\$	(429) (10,390) (23)	\$	112 683	\$	(57) (1,030) –
	186,460	175,618		(10,842)		795		(1,087)
Obligations related to assets sold under repurchase agreements and securities loaned Other liabilities	298,734 11	298,679 11		(55) -		3 -		4 -
	\$ 485,205	\$ 474,308	\$	(10,897)	\$	798	\$	(1,083)

<sup>\$1</sup> million in changes in fair value attributable to changes in credit risk were recognized in income for the year ended October 31, 2024, and \$9 million in cumulative (1) changes in credit risk were included in income for positions still held life-to-date (October 31, 2023 – \$29 million and \$17 million, respectively)

#### Net gains (losses) from financial instruments classified and designated as fair value through profit or loss

Financial instruments classified as FVTPL, which includes mainly trading securities, derivatives, trading liabilities, and financial assets and liabilities designated as FVTPL are measured at fair value with realized and unrealized gains and losses recognized in Non-interest income.

		For the ye	year ended		
	Oc	tober 31	Oc	tober 31	
(Millions of Canadian dollars)		2024		2023	
Net gains (losses) (1)					
Classified as fair value through profit or loss (2)	\$	8,996	\$	1,998	
Designated as fair value through profit or loss (3)		(5,847)		1,499	
	\$	3,149	\$	3,497	
By product line (1)					
Interest rate and credit (4)	\$	2,580	\$	3,515	
Equities		389		(510)	
Foreign exchange and commodities		180		`492 <sup>′</sup>	
	\$	3,149	\$	3,497	

<sup>(1)</sup> Excludes net gains from financial instruments classified as FVTPL of \$2,251 million (October 31, 2023 – net losses of \$107 million for financial instruments classified or designated as FVTPL) presented in Insurance investment result in the Consolidated Statements of Income.

#### 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 y	ear ended
(Millions of Canadian dollars)	October 31 2024	October 31 2023
Interest and dividend income (1), (2) Financial instruments measured at fair value through profit or loss	\$ 35,550	\$ 31,464
Financial instruments measured at fair value through other comprehensive income Financial instruments measured at amortized cost	7,109 62,292	5,127 50,400
	104,951	86,991
Interest expense (1) Financial instruments measured at fair value through profit or loss Financial instruments measured at amortized cost	\$ 34,150 42,848	\$ 28,446 33,416
	76,998	61,862
Net interest income	\$ 27,953	\$ 25,129

Excludes interest and dividend income of \$958 million (October 31, 2023 – \$677 million) and interest expense of \$120 million (October 31, 2023 – \$191 million) presented in Insurance investment result in the Consolidated Statements of Income.

The cumulative change is measured from the initial designation of the liabilities as FVTPL. For the year ended October 31, 2024, \$15 million of fair value gains previously included in OCI relate to financial liabilities derecognized during the year (October 31, 2023 – \$2 million of fair value gains).

Business and government term deposits include amounts from regulated deposit-taking institutions other than regulated banks.

Bank term deposits refer to amounts from regulated banks and central banks.

Excludes derivatives designated in a hedging relationship. Refer to Note 9 for net gains (losses) on these derivatives.

For the year ended October 31, 2024, \$5,838 million of net fair value losses on financial liabilities designated as FVTPL, other than those attributable to changes in our own credit risk, were included in Non-interest income (October 31, 2023 – gains of \$1,524 million).

Includes gains (losses) recognized on cross currency interest rate swaps.

Includes dividend income for the year ended October 31, 2024 of \$3,319 million (October 31, 2023 – \$3,215 million), which is presented in Interest and dividend income in the Consolidated Statements of Income.

#### Fee income arising from financial instruments

For the year ended October 31, 2024, we earned \$6,347 million in fees from banking services (October 31, 2023 – \$6,112 million). For the year ended October 31, 2024, we also earned \$17,467 million in fees from investment management, trust, custodial, underwriting, brokerage and other similar fiduciary services to retail and institutional clients (October 31, 2023 – \$15,319 million). These fees are included in Non-interest income.

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

		0	ctober 31, 2	024	As		October 3	1, 2023 (Re	stated – Note 2)	
		Fair value					Fair value			
	mea	surements us	sing	Netting		mea	surements	using	Netting	
(Millions of Canadian dollars)	Level 1	Level 2	Level 3	adjustments	Fair value	Level 1	Level 2	Level 3		iir value
Financial assets		A 52.00¢			± =2.00¢		A (0.05)			
Interest-bearing deposits with banks	\$ -	\$ 53,996	\$ -	\$	\$ 53,996	\$ -	\$ 60,856	\$ -	\$ \$	60,856
Securities Trading										
Debt issued or guaranteed by:										
Canadian government (1)										
Federal	11,611	2,173	-		13,784	26,675	2,581	-		29,256
Provincial and municipal		16,588	-		16,588		16,389	-		16,389
U.S. federal, state, municipal and agencies (1), (2)	1,852	29,136	-		30,988	2,249	50,439	-		52,688
Other OECD government (3) Mortgage-backed securities (1)	2,481	2,153			4,634 3	2,055	2,577 2	_		4,632
Asset-backed securities	_	1,434	_		1,434	_	1,245	_		1,245
Corporate debt and other debt	_	26,195	_		26,195	_	22,615	_		22,615
Equities	84,814	2,316	2,544		89,674	58,826	2,232	2,266		63,324
	100,758	79,998	2,544		183,300	89,805	98,080	2,266	1	190,151
Investment										
Debt issued or guaranteed by:										
Canadian government (1)										
Federal	4,623	8,546	-		13,169	2,731	3,528	-		6,259
Provincial and municipal U.S. federal, state, municipal and agencies (1)	42	7,554 80,224	_		7,554 80,266	275	2,748 73,020	-		2,748 73,295
Other OECD government	2,370	7,786	_		10,156	2/3	6,192	_		6,192
Mortgage-backed securities (1)		2,603	31		2,634	_	2,672	29		2,701
Asset-backed securities	_	9,357	_		9,357	-	8,706	_		8,706
Corporate debt and other debt	-	31,839	143		31,982	-	27,574	149		27,723
Equities	432	304	506		1,242	38	338	466		842
	7,467	148,213	680		156,360	3,044	124,778	644	1	128,466
Assets purchased under reverse repurchase agreements and										
securities borrowed	-	284,311			284,311	-	285,869	-		285,869
Loans	_	8,924	1,781		10,705	-	8,742	1,859		10,601
Other Derivatives										
Interest rate contracts	_	27,719	354		28,073	_	39,243	290		39,533
Foreign exchange contracts	_	98,480	3		98,483	-	89,644	4		89,648
Credit derivatives	-	273	-		273	-	224	-		224
Other contracts	2,553	23,830	21		26,404	2,352	13,927	111		16,390
Valuation adjustments	_	(1,067)	14		(1,053)	_	(1,805)	4		(1,801
Total gross derivatives	2,553	149,235	392	(4.500)	152,180	2,352	141,233	409		143,994
Netting adjustments				(1,568)					(1,544)	(1,544
Total derivatives Other assets	5,291	6,472	7		150,612 11,770	4,152	3,421	11	,	142,450 7,584
		\$ 731,149		\$ (1.568)	\$851,054	\$99,353	\$722,979		\$ (1,544) \$ 8	
Financial liabilities	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , ,	, -,	(1,010)	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***==,***	,	(1,511)	,
Deposits										
Personal	\$ -	\$ 33,829	\$ 478	\$	\$ 34,307	\$ -	\$ 26,428	\$ 383	\$ \$	26,811
Business and government	-	156,429	-		156,429	-	137,628	-	1	137,628
Bank	-	10,530	-		10,530	-	11,462	-		11,462
		20 114			25 296	1/1201	10.260			33,651
Other Obligations related to securities sold short	15 172		_		35,286	14,391	19,260	_		33,031
Obligations related to securities sold short	15,172	20,114								
	15,172		_		270,663	_	298,679	_	2	298,679
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives		270,663	-		270,663	-	298,679	-	2	298,679
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts		270,663 24,852	- 847		25,699	-	41,249	952	2	42,201
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts Foreign exchange contracts	- - -	270,663 24,852 93,164	- 847 54		25,699 93,218	- -	41,249 81,750	53	2	42,201 81,803
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts Foreign exchange contracts Credit derivatives	- - -	270,663 24,852 93,164 218	54 -		25,699 93,218 218	- - -	41,249 81,750 176	53	2	42,201 81,803 176
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts Foreign exchange contracts Credit derivatives Other contracts	- - - 3,212	270,663 24,852 93,164 218 42,961	54 - 324		25,699 93,218 218 46,497	- - - 3,119	41,249 81,750 176 17,306	53 - 549	2	42,201 81,803 176 20,974
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts Foreign exchange contracts Credit derivatives Other contracts Valuation adjustments	- - - 3,212 -	270,663 24,852 93,164 218 42,961 (297)	54 - 324 (4)		25,699 93,218 218 46,497 (301)	- - - 3,119 -	41,249 81,750 176 17,306 (982)	53 - 549 1		42,201 81,803 176 20,974 (981
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts Foreign exchange contracts Credit derivatives Other contracts	- - - 3,212	270,663 24,852 93,164 218 42,961	54 - 324	(1,568)	25,699 93,218 218 46,497 (301)	- - - 3,119	41,249 81,750 176 17,306	53 - 549		42,201 81,803 176 20,974 (981
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts Foreign exchange contracts Credit derivatives Other contracts Valuation adjustments Total gross derivatives	- - - 3,212 -	270,663 24,852 93,164 218 42,961 (297)	54 - 324 (4)	(1,568)	25,699 93,218 218 46,497 (301)	- - - 3,119 -	41,249 81,750 176 17,306 (982)	53 - 549 1	(1,544)	42,201 81,803 176 20,974 (981
Obligations related to securities sold short Obligations related to assets sold under repurchase agreements and securities loaned Derivatives Interest rate contracts Foreign exchange contracts Credit derivatives Other contracts Valuation adjustments Total gross derivatives Netting adjustments	- - - 3,212 -	270,663 24,852 93,164 218 42,961 (297)	54 - 324 (4)	(1,568)	25,699 93,218 218 46,497 (301) 165,331 (1,568)	- - - 3,119 -	41,249 81,750 176 17,306 (982)	53 - 549 1	(1,544)	42,201 81,803 176 20,974 (981 144,173 (1,544

<sup>(1)</sup> As at October 31, 2024, residential and commercial mortgage-backed securities (MBS) included in all fair value levels of trading securities were \$17,154 million and \$nil (October 31, 2023 – \$14,345 million and \$1,568 million (October 31, 2023 – \$24,365 million and \$2,618 million), respectively.

<sup>(2)</sup> United States (U.S.).

<sup>(3)</sup> Organisation for Economic Co-operation and Development (OECD).

#### Note 3 Fair value of financial instruments (continued)

Fair values of our significant assets and liabilities measured on a recurring basis are determined and classified in the fair value hierarchy table using the following valuation techniques and inputs.

#### Interest-bearing deposits with banks

The majority of our Interest-bearing deposits with banks are designated as FVTPL. These FVTPL deposits are composed of short-dated deposits placed with banks, and are included in Interest-bearing deposits with banks in the fair value hierarchy table. The fair values of these instruments are determined using the discounted cash flow method. The inputs to the valuation models include interest rate swap curves and credit spreads, where applicable. They are classified as Level 2 instruments in the hierarchy as the inputs are observable.

#### Government bonds (Canadian, U.S. and other OECD governments)

Government bonds are included in Canadian government debt, U.S. federal, state, municipal and agencies debt, Other OECD government debt and Obligations related to securities sold short in the fair value hierarchy table. The fair values of government issued or guaranteed debt securities in active markets are determined by reference to recent transaction prices, broker quotes, or third-party vendor prices and are classified as Level 1 in the hierarchy. The fair values of securities that are not traded in active markets are based on either security prices, or valuation techniques using implied yields and risk spreads derived from prices of actively traded and similar government securities. Securities with observable prices or rate inputs as compared to transaction prices, dealer quotes or vendor prices are classified as Level 2 in the hierarchy. Securities where inputs are unobservable are classified as Level 3 in the hierarchy.

#### Corporate and U.S. municipal bonds

The fair values of corporate and U.S. municipal bonds, which are included in Corporate debt and other debt, U.S. federal, state, municipal and agencies debt and Obligations related to securities sold short in the fair value hierarchy table, are determined using either recently executed transaction prices, broker quotes, pricing services, or in certain instances, the discounted cash flow method using rate inputs such as benchmark yields (CDOR, Secured Overnight Financing Rate (SOFR) and other similar reference rates) and risk spreads of comparable securities. Securities with observable prices or rate inputs are classified as Level 2 in the hierarchy. Securities where inputs are unobservable are classified as Level 3 in the hierarchy.

#### Asset-backed securities and Mortgage-backed securities

Asset-backed securities (ABS) and MBS are included in Asset-backed securities, Mortgage-backed securities, Canadian government debt, U.S. federal, state, municipal and agencies debt, and Obligations related to securities sold short in the fair value hierarchy table. Inputs for valuation of ABS and MBS are, when available, traded prices, dealer or lead manager quotes, broker quotes and vendor prices of the identical securities. When prices of the identical securities are not readily available, we use industry standard models with inputs such as discount margins, yields, default, prepayment and loss severity rates that are implied from transaction prices, dealer quotes or vendor prices of comparable instruments. Where security prices and inputs are observable, ABS and MBS are classified as Level 2 in the hierarchy. Otherwise, they are classified as Level 3 in the hierarchy.

#### Fauities

Equities consist of listed and unlisted common shares, private equities, mutual funds and hedge funds with certain redemption restrictions and are included in equities and obligations for securities sold short. The fair values of common shares are based on quoted prices in active markets, where available, and are classified as Level 1 in the hierarchy. Where quoted prices in active markets are not readily available, fair value is determined based on quoted market prices for similar securities or through valuation techniques, such as multiples of earnings and the discounted cash flow method with forecasted cash flows and discount rate as inputs. Private equities are classified as Level 3 in the hierarchy as their inputs are not observable. Hedge funds are valued using Net Asset Values (NAV). If we can redeem a hedge fund at NAV prior to the next quarter end, the fund is classified as Level 2 in the hierarchy. Otherwise, it is classified as Level 3 in the hierarchy.

#### Loans

Loans include base metal loans, corporate loans, banker acceptances and asset-backed financing loans. Fair values are determined based on market prices, if available, or discounted cash flow method using the following inputs: market interest rates, base metal commodity prices, market based spreads of assets with similar credit ratings and terms to maturity, LGD, expected default frequency implied from credit derivative prices, if available, and relevant pricing information such as contractual rate, origination and maturity dates, redemption price, coupon payment frequency and day count convention. Loans with market prices or observable inputs are classified as Level 2 in the hierarchy and loans with unobservable inputs that have significant impacts on the fair values are classified as Level 3 in the hierarchy.

## Derivatives

The fair values of exchange-traded derivatives, such as interest rate and equity options and futures, are based on quoted market prices and are typically classified as Level 1 in the hierarchy. OTC derivatives primarily consist of interest rate contracts, foreign exchange contracts, commodity derivatives, equity derivatives and credit derivatives. The exchange-traded or OTC interest rate, foreign exchange and commodity and equity derivatives are included in Interest rate contracts, Foreign exchange contracts and Other contracts, respectively, in the fair value hierarchy table. The fair values of OTC derivatives are determined using valuation models when quoted market prices or third-party consensus pricing information are not available. The valuation models, such as discounted cash flow method or Black-Scholes option model, incorporate observable or unobservable inputs for interest and foreign exchange rates, equity and commodity prices (including indices), credit spreads, corresponding market volatility levels, and other market-based pricing factors. Other adjustments to fair value include bid-offer, CVA, FVA, OIS, parameter and model uncertainties, and unrealized gain or loss at inception of a transaction. A derivative instrument is classified as Level 2 in the hierarchy if observable market inputs are available or the unobservable inputs are not significant to the fair value. Otherwise, it is classified as Level 3 in the hierarchy.

Securities borrowed or purchased under resale agreements and securities loaned or sold under repurchase agreements In the fair value hierarchy table, these instruments are included in Assets purchased under reverse repurchase agreements and securities borrowed, and Obligations related to assets sold under repurchase agreements and securities loaned. The fair values of these contracts are determined using valuation techniques such as the discounted cash flow method using interest rate curves as inputs. They are classified as Level 2 instruments in the hierarchy as the inputs are observable.

#### **Deposits**

A majority of our deposits are measured at amortized cost but certain deposits are designated as FVTPL. These FVTPL deposits include deposits taken from clients, issuances of certificates of deposits and promissory notes, and interest rate and equity linked notes. The fair values of these instruments are determined using the discounted cash flow method and derivative option valuation models. The inputs to the valuation models include benchmark yield curves, credit spreads, interest rates, equity and interest rate volatility, dividends and correlation, where applicable. They are classified as Level 2 or 3 instruments in the hierarchy, depending on the significance of the unobservable credit spreads, volatility, dividend and correlation rates.

Quantitative information about fair value measurements using significant unobservable inputs (Level 3 Instruments)
The following table presents fair values of our significant Level 3 financial instruments, valuation techniques used to determine their fair values, ranges and weighted averages of unobservable inputs.

As at October 31, 2024 (Millio	ons of Canadian dollars, except for pri	ces, percer	ntages and	ratios)				
		Fair	value			Range o	of input val	ues (1), (2)
Products	Reporting line in the fair value hierarchy table	Assets	Liabilities	Valuation techniques	Significant unobservable inputs (3)	Low	High	Weighted average / Inputs distribution
Corporate debt and related derivatives	Corporate debt and other debt Loans Derivative related liabilities	\$ - 1,781	\$ 2	Price-based Discounted cash flows	Prices Credit spread Credit enhancement	\$ 64.67 1.45% 11.70%	\$ 116.25 10.90% 15.60%	\$ 92.07 6.17% 13.00%
Government debt and municipal bonds	Corporate debt and other debt	143		Discounted cash flows	Yields	6.54%	9.55%	7.54%
Private equities, hedge fund investments and related equity derivatives	Equities Derivative related liabilities	3,050	-	Market comparable Price-based Discounted cash flows	EV/EBITDA multiples P/E multiples EV/Rev multiples Liquidity discounts (4) Discount rate NAV / prices (5)	3.20X 7.30X 0.70X 10.00% 8.50% n.a.	17.20X 22.60X 5.72X 40.00% 8.50% n.a.	7.94X 11.27X 2.59X 10.40% 8.50% n.a.
Interest rate derivatives and interest-rate-linked structured notes (6), (7)	Derivative related assets Derivative related liabilities	355	900	Discounted cash flows Option pricing model	Interest rates CPI swap rates IR-IR correlations FX-IR correlations FX-FX correlations	1.89% 1.84% 48.00% (76.00)% (74.00)%	4.59% 1.96% 86.00% 66.00% 61.00%	Even Even Even Even Even
Equity derivatives and equity- linked structured notes (6), (7)	Derivative related assets Deposits Derivative related liabilities	21	478 283	Discounted cash flows Option pricing model	Dividend yields Equity (EQ)-EQ correlations EQ-FX correlations EQ volatilities	0.00% 6.30% (77.11)% 6.00%	10.60% 95.85% 50.38% 146.87%	Lower Middle Middle Lower
Other (8)	Derivative related assets Other assets Mortgage-backed securities Derivative related liabilities	16 7 31	36 \$ 1,699					

As at October 31, 2023 (Millions of Canadian dollars, except for prices, percentages and ratios)

		Fair	value	_		Range o	of input val	ues (1), (2)
Products	Reporting line in the fair value hierarchy table	Assets Liabilities		Valuation techniques		Low	High	Weighted average / Inputs distribution
Corporate debt and related derivatives	Corporate debt and other debt Loans Derivative related liabilities	\$ – 1,859	\$ 2	Price-based Discounted cash flows		\$ 9.88 1.89% 11.70%	\$ 107.13 9.96% 15.60%	\$ 87.66 5.93% 13.00%
Government debt and municipal bonds	Corporate debt and other debt	149		Discounted cash flows	Yields	7.73%	10.38%	8.60%
Private equities, hedge fund investments and related equity derivatives	Equities Derivative related liabilities	2,732	-	Market comparable Price-based Discounted cash flows	P/E multiples	4.16X 6.60X 1.00X 10.00% 8.50% n.a.	14.90X 22.60X 5.00X 40.00% 13.30% n.a.	6.93X 8.60X 3.00X 16.91% 10.70% n.a.
Interest rate derivatives and interest-rate-linked structured notes (6), (7)	Derivative related assets Derivative related liabilities	293	995	Discounted cash flows Option pricing model		2.39% 1.84% 19.00% 29.00% 68.00%	5.18% 2.35% 67.00% 56.00% 68.00%	High Even Even Even Even
Equity derivatives and equity- linked structured notes (6), (7)	Derivative related assets Deposits Derivative related liabilities	111	383 485		Dividend yields Equity (EQ)-EQ correlations EQ-FX correlations EQ volatilities	0.14% 32.50% (83.15)% 6.70%	10.71% 96.49% 38.44% 110.72%	Lower Middle Middle Lower
Other (8)	Derivative related assets Other assets Mortgage-backed securities Derivative related liabilities	5 11 29 \$ 5,189	73 \$ 1,938	_				

- The low and high input values represent the actual highest and lowest level inputs used to value a group of financial instruments in a particular product category. These input ranges do not reflect the level of input uncertainty, but are affected by the different underlying instruments within the product category. The input ranges will therefore vary from period to period based on the characteristics of the underlying instruments held at each balance sheet date. Where provided, the weighted average of the input values is calculated based on the relative fair values of the instruments within the product category. The weighted averages for derivatives are not presented in the table as they would not provide a comparable metric; instead, distribution of significant unobservable inputs within the range for each product category is indicated in the table.
- Price-based inputs are significant for certain debt securities and are based on external benchmarks, comparable proxy instruments or pre-quarter-end trade data. For these instruments, the price input is expressed in dollars for each \$100 par value. For example, with an input price of \$105, an instrument is valued at a premium over its
- (3) The significant unobservable inputs include the following: (i) Enterprise Value (EV); (ii) Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA); (iii) Price / Earnings (P/E); (iv) Revenue (Rev); (v) Consumer Price Index (CPI); (vi) Interest Rate (IR); (vii) Foreign Exchange (FX); and (viii) Equity (EQ).
- Fair value of securities with liquidity discount inputs totalled \$541 million (October 31, 2023 \$483 million).
- NAV of a hedge fund is total fair value of assets less liabilities divided by the number of fund units. Private equities are valued based on NAV or valuation techniques. The range for NAV per unit or price per share has not been disclosed for the hedge funds or private equities due to the dispersion of prices given the diverse nature of the investments.
- (6) The level of aggregation and diversity within each derivative instrument category may result in certain ranges of inputs being wide and inputs being unevenly distributed across the range. In the table, we indicated whether the majority of the inputs are concentrated toward the upper, middle, or lower end of the range, or evenly distributed throughout the range.
- The structured notes contain embedded equity or interest rate derivatives with unobservable inputs that are similar to those of the equity or interest rate derivatives.
- Other primarily includes certain insignificant instruments such as auction rate securities, commodity derivatives, foreign exchange derivatives, contingent considerations, bank-owned life insurance and retractable shares.
- n.a. not applicable

#### Sensitivity to unobservable inputs and interrelationships between unobservable inputs Yield, credit spreads/discount margins

A financial instrument's yield is the interest rate used to discount future cash flows in a valuation model. An increase in the yield, in isolation, would result in a decrease in a fair value measurement and vice versa. A credit spread/discount margin is the difference between a debt instrument's yield and a benchmark instrument's yield. Benchmark instruments have high credit quality ratings, similar maturities and are often government bonds. The credit spread/discount margin therefore represents the discount rate used to determine the present value of future cash flows of an asset to reflect the market return required for uncertainty in the estimated cash flows. The credit spread/discount margin for an instrument forms part of the yield used in a discounted cash flow method.

#### Funding spread

Funding spreads are credit spreads specific to funding or deposit rates. A decrease in funding spreads, on its own, will increase the fair value of our liabilities, and vice versa.

#### Default rates

A default rate is the rate at which borrowers fail to make scheduled loan payments. A decrease in the default rate will typically increase the fair value of the loan, and vice versa. This effect will be significantly more pronounced for a non-government guaranteed loan than a government guaranteed loan.

#### Prepayment rates

A prepayment rate is the rate at which a loan will be repaid in advance of its expected amortization schedule. Prepayments change the future cash flows of a loan. An increase in the prepayment rate in isolation will result in an increase in fair value when the loan interest rate is lower than the current reinvestment rate, and a decrease in the prepayment rate in isolation will result in a decrease in fair value when the loan interest rate is lower than the current reinvestment rate. Prepayment rates are generally negatively correlated with interest rates.

#### Recovery and loss severity rates

A recovery rate is an estimation of the amount that can be collected in a loan default scenario. The recovery rate is the recovered amount divided by the loan balance due, expressed as a percentage. The inverse concept of recovery is loss severity. Loss severity rate is an estimation of the loan amount not collected when a loan defaults. The loss severity rate is the loss amount divided by the loan balance due, expressed as a percentage. Generally, an increase in the recovery rate or a decrease in the loss severity rate will increase the loan fair value, and vice versa.

#### Volatility rates

Volatility measures the potential variability of future prices and is often measured as the standard deviation of price movements. Volatility is an input to option pricing models used to value derivatives and issued structured notes. Volatility is used in valuing equity, interest rate, commodity and foreign exchange options. A higher volatility rate means that the underlying price or rate movements are more likely to occur. Higher volatility rates may increase or decrease an option's fair value depending on the option's terms. The determination of volatility rates is dependent on various factors, including but not limited to, the underlying's market price, the strike price and maturity.

#### Dividend yields

A dividend yield is the underlying equity's expected dividends expressed as an annual percentage of its price. Dividend yield is used as an input for forward equity price and option models. Higher dividend yields will decrease the forward price, and vice versa. A higher dividend yield will increase or decrease an option's value, depending on the option's terms.

#### Correlation rates

Correlation is the linear relationship between the movements in two different variables. Correlation is an input to the valuation of derivative contracts and issued structured notes when an instrument's payout is determined by correlated variables. When variables are positively correlated, an increase in one variable will result in an increase in the other variable. When variables are negatively correlated, an increase in one variable will result in a decrease in the other variable. The referenced variables can be within a single asset class or market (equity, interest rate, commodities, credit and foreign exchange) or between variables in different asset classes (equity to foreign exchange, or interest rate to foreign exchange). Changes in correlation will either increase or decrease a financial instrument's fair value depending on the terms of the instrument.

#### Interest rates

An interest rate is the percentage amount charged on a principal or notional amount. Increasing interest rates will decrease the discounted cash flow value of a financial instrument, and vice versa.

#### Consumer Price Index swap rates

A CPI swap rate is expressed as a percentage of an increase in the average price of a basket of consumer goods and services, such as transportation, food and medical care. An increase in the CPI swap rate will cause inflation swap payments to be larger, and vice versa.

#### EV/EBITDA multiples, P/E multiples, EV/Rev multiples, and liquidity discounts

Private equity valuation inputs include EV/EBITDA multiples, P/E multiples and EV/Rev multiples. These are used to calculate either enterprise value or share value of a company based on a multiple of earnings or revenue estimates. Higher multiples equate to higher fair values for all multiple types, and vice versa. A liquidity discount may be applied when few or no transactions exist to support the valuations.

#### Credit Enhancement

Credit enhancement is an input to the valuation of securitized transactions and is the amount of loan loss protection for a senior tranche. Credit enhancement is expressed as a percentage of the transaction sizes. An increase in credit enhancement will cause the credit spread to decrease and the tranche fair value to increase, and vice versa.

#### Interrelationships between unobservable inputs

Unobservable inputs, including the above discount margin, default rate, prepayment rate, and recovery and loss severity rates, may not be independent of each other. For example, the discount margin can be affected by a change in default rate, prepayment rate, or recovery and loss severity rates. Discount margins will generally decrease when default rates decline or when recovery rates increase.

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

	For the year ended October 31, 2024									
(Millions of Canadian dollars)	Fair value at beginning of period	Gains (losses) included in earnings		Purchas (issuance	es (so	ettlement ales) and other (2)	Transfers into Level 3	Transfers out of Level 3		Gains (losses) included in earnings for positions still held
Assets										
Securities										
Trading										
Debt issued or guaranteed by:										
U.S. state, municipal and agencies	\$ -	\$ -	\$ -	\$	_	\$ -	\$ -	\$ -	\$ -	\$ -
Asset-backed securities	_	_	-		-	-	-	-	_	-
Corporate debt and other debt	_	_	-		-	-	-	-	_	-
Equities	2,266	(195)	5	57	77	(88)	1	(22	) 2,544	(128)
	2,266	(195)	5	5	77	(88)	1	(22	) 2,544	(128)
Investment										
Mortgage-backed securities	29	_	2		_	_	_	_	31	n.a.
Corporate debt and other debt	149	_	11		_	(17)	_	_	143	n.a.
Equities	466	-	35		6	(3)	2	-	506	n.a.
	644	-	48		6	(20)	2	-	680	n.a.
Loans	1,859	(25)	37	51	3	(445)	70	(228	) 1,781	63
Other										
Net derivative balances (3)				,						
Interest rate contracts	(662)		1		17)	145	30	(6		
Foreign exchange contracts	(49)				4	3	3	(14		
Other contracts	(438)	(139)	2	(10		8	(330)	700	٠,	31
Valuation adjustments	3	_	-		(4)	19	-	-	18	-
Other assets	11					(4)			7	
	\$ 3,634	\$ (328)	\$ 100	\$ 95	3	\$ (382)	\$ (224)	\$ 430	\$ 4,183	\$ 8
Liabilities										
Deposits	\$ (383)	\$ (119)	\$ -	\$ (58	33)	\$ 165	\$ (120)	\$ 562	\$ (478)	\$ (40)
	\$ (383)	\$ (119)	\$ -	\$ (58	33)	\$ 165	\$ (120)	\$ 562	\$ (478)	\$ (40)

Fair value at beginning of period   Fair value at beginning of period   Invalue at beginning of p	Gains (losses) included in earnings for positions still held
Securities   Trading   Debt issued or guaranteed by:   U.S. state, municipal and agencies   \$4	
Trading           Debt issued or guaranteed by:         U.S. state, municipal and agencies         \$ 4 \$ - \$ - \$ - \$ - \$ (4) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	
Debt issued or guaranteed by:   U.S. state, municipal and agencies   \$4	
U.S. state, municipal and agencies  Asset-backed securities  2	
Asset-backed securities 2 (2) Corporate debt and other debt 7 2 (16) 17 (10) - Equities 1,874 (196) 21 586 (67) 48 - 2,266 (10) 2,266 (1	
Corporate debt and other debt	\$ -
Equities         1,874         (196)         21         586         (67)         48         -         2,266           Investment           Mortgage-backed securities         28         -         -         1         -         -         -         29           Corporate debt and other debt         151         -         9         -         (11)         -         -         149           Equities         397         -         70         1         (2)         -         -         466           Loans         1,692         (95)         33         1,443         (868)         30         (376)         1,859           Other	-
1,887   (196)   21   588   (89)   65   (10)   2,266	-
Nortgage-backed securities   28	(154
Mortgage-backed securities         28         -         -         1         -         -         -         29           Corporate debt and other debt Equities         151         -         9         -         (11)         -         -         149           Equities         397         -         70         1         (2)         -         -         466           Loans         1,692         (95)         33         1,443         (868)         30         (376)         1,859           Other	(154
Corporate debt and other debt Equities         151         -         9         -         (11)         -         -         149 466           Equities         397         -         70         1         (2)         -         -         466           Loans Other         1,692         (95)         33         1,443         (868)         30         (376)         1,859	
Corporate debt and other debt Equities         151         -         9         -         (11)         -         -         149 466           Equities         397         -         70         1         (2)         -         -         466           Loans Other         1,692         (95)         33         1,443         (868)         30         (376)         1,859	n.a.
576         -         79         2         (13)         -         -         644           Loans Other         1,692         (95)         33         1,443         (868)         30         (376)         1,859	n.a.
Loans 1,692 (95) 33 1,443 (868) 30 (376) 1,859 Other	n.a.
Other	n.a.
	(44
Net derivative balances (3)	
Interest rate contracts (859) (63) 5 (48) 235 42 26 (662)	(43
Foreign exchange contracts (132) 10 10 (14) 44 – 33 (49)	8
Other contracts (785) 83 4 (143) 78 (159) 484 (438)	152
Valuation adjustments 53 (50) 3	-
Other assets 15 - 1 - (5) 11	
\$ 2,447 \$ (261) \$ 153 \$ 1,828 \$ (668) \$ (22) \$ 157 \$ 3,634	\$ (81
Liabilities	
Deposits \$ (241) \$ 5 \$ - \$ (260) \$ 23 \$ (134) \$ 224 \$ (383)	\$ 24
\$ (241) \$ 5 \$ - \$ (260) \$ 23 \$ (134) \$ 224 \$ (383)	

<sup>(1)</sup> 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 \$38 million for the year ended October 31, 2024 (October 31, 2023 – gains of \$65 million) excluding the translation gains or losses arising on consolidation.

<sup>(2)</sup> Other includes amortization of premiums or discounts recognized in net income.

<sup>(3)</sup> Net derivatives as at October 31, 2024 included derivative assets of \$392 million (October 31, 2023 – \$409 million) and derivative liabilities of \$1,221 million (October 31, 2023 – \$1,555 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 year ended October 31, 2024, transfers out of Level 1 to Level 2 included Investment U.S. federal, state, municipal and agencies debt of \$1,038 million and Trading U.S. federal, state, municipal and agencies debt of \$822 million. During the year ended October 31, 2023, transfers out of Level 1 to Level 2 included Trading U.S. federal, state, municipal and agencies debt of \$763 million, Investment U.S. federal, state, municipal and agencies debt of \$435 million and Obligations related to securities sold short of \$151 million.

During the years ended October 31, 2024 and October 31, 2023, 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 year ended October 31, 2024, transfers out of Level 2 to Level 3 included Other contracts and Deposits due to changes in the significance of unobservable inputs and changes in the market observability of inputs. During the year ended October 31, 2023, transfers out of Level 2 to Level 3 included Other contracts and Deposits due to changes in the significance of unobservable inputs and changes in the market observability of inputs.

During the year ended October 31, 2024, transfers out of Level 3 to Level 2 included Other contracts, Deposits and Loans due to changes in the significance of unobservable inputs and changes in the market observability of inputs. During the year ended October 31, 2023, transfers out of Level 3 to Level 2 included Other contracts, Loans and Deposits due to changes in the market observability of inputs and changes in the significance of unobservable inputs.

# Positive and negative fair value movements of Level 3 financial instruments from using reasonably possible alternative assumptions

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.

The following table summarizes the impacts to fair values of Level 3 financial instruments using reasonably possible alternative assumptions. This sensitivity disclosure is intended to illustrate the potential impact of the relative uncertainty in the fair value of Level 3 financial instruments. In reporting the sensitivities below, we offset balances in instances where: (i) the move in valuation factors cause an offsetting positive and negative fair value movement, (ii) both offsetting instruments are in Level 3, and (iii) exposures are managed and reported on a net basis. With respect to overall sensitivity, it is unlikely in practice that all reasonably possible alternative assumptions would simultaneously be realized.

					As o	ıt						
		Octob	er 31, 202	4		October 31, 2023						
(Millions of Canadian dollars)	Level 3 fair value	movement from using reasonably Level 3 possible		movemousing red	Negative fair value movement from using reasonably possible alternatives		Level 3 iir value	Positive fair value movement from using reasonably possible alternatives		using rec	ent from	
Securities												
Trading												
Equities	\$ 2,544	\$	50	\$	(46)	\$	2,266	\$	50	\$	(43)	
Investment												
Mortgage-backed securities	31		4		(4)		29		4		(4)	
Corporate debt and other debt	143		9		(8)		149		11		(10)	
Equities	506		45		(44)		466		48		(47)	
Loans	1,781		19		(20)		1,859		33		(37)	
Derivatives	392		5		(4)		409		10		`(7)	
Other assets	7		_		'-'		11		_		-	
	\$ 5,404	\$	132	\$	(126)	\$	5,189	\$	156	\$	(148)	
Deposits	\$ (478)	\$	15	\$	(15)	\$	(383)	\$	26	\$	(26)	
Derivatives	(1,221)		54		(57)		(1,555)		59		(66)	
	\$ (1,699)	\$	69	\$	(72)	\$	(1,938)	\$	85	\$	(92)	

#### Sensitivity results

As at October 31, 2024, the effects of applying other reasonably possible alternative assumptions to the Level 3 asset positions would be an increase of \$132 million and a reduction of \$126 million in fair value, of which \$58 million and \$56 million would be recorded in Other components of equity, respectively. The effects of applying these assumptions to the Level 3 liability positions would result in a decrease of \$69 million and an increase of \$72 million in fair value.

# Level 3 valuation inputs and approaches to developing reasonably possible alternative assumptions

The following is a summary of the unobservable inputs used in the valuation of the Level 3 instruments and our approaches to developing reasonably possible alternative assumptions used to determine sensitivity.

Financial assets or liabilities	Sensitivity methodology
Asset-backed securities, corporate debt, government debt, municipal bonds and loans	Sensitivities are determined based on adjusting, plus or minus one standard deviation, the bid-offer spreads or input prices if a sufficient number of prices are received, adjusting input parameters such as credit spreads or using high and low vendor prices as reasonably possible alternative assumptions.
Private equities, hedge fund investments and related equity derivatives	Sensitivity of direct private equity investments is determined by (i) adjusting the discount rate by 2% when the discounted cash flow method is used to determine fair value, (ii) adjusting the price multiples based on the range of multiples of comparable companies when price-multiples-based models are used, or (iii) using an alternative valuation approach. The private equity fund, hedge fund and related equity derivative NAVs are provided by the fund managers, and as a result, there are no other reasonably possible alternative assumptions for these investments.
Interest rate derivatives	Sensitivities of interest rate and cross currency swaps are derived using plus or minus one standard deviation of the inputs, and an amount representing model and parameter uncertainty, where applicable.
Equity derivatives	Sensitivity of the Level 3 position is determined by shifting the unobservable model inputs by plus or minus one standard deviation of the pricing service market data including volatility, dividends or correlations, as applicable.
Bank funding and deposits	Sensitivities of deposits are calculated by shifting the funding curve by plus or minus certain basis points.
Structured notes	Sensitivities for interest-rate-linked and equity-linked structured notes are derived by adjusting inputs by plus or minus one standard deviation, and for other deposits, by estimating a reasonable move in the funding curve by plus or minus certain basis points.

# Fair value for financial instruments that are carried at amortized cost and classified using the fair value hierarchy

		As at October 31, 2024											
	Fairvalus	Fair valu	e may not app	oroximate ca	rrying value								
	Fair value - approximates	Fair val	ue measureme	ents using		Total							
(Millions of Canadian dollars)	carrying value (1)	Level 1	Level 1 Level 2		Total	fair value							
Interest-bearing deposits with banks Amortized cost securities (2) Assets purchased under reverse repurchase agreements and	\$ 12,024 -	\$ - 68	\$ – 96,268	\$ - -	\$ - 96,336	\$ 12,024 96,336							
securities borrowed	54,331	_	12,161	-	12,161	66,492							
Loans Retail Wholesale	79,960 16,022	- -	533,708 321,684	5,652 7,855	539,360 329,539	619,320 345,561							
	95,982	_	855,392	13,507	868,899	964,881							
Other assets	49,414	_	412	267	679	50,093							
	211,751	68	964,233	13,774	978,075	1,189,826							
Deposits Personal Business and government Bank	273,228 443,077 23,942	- - -	216,675 241,204 13,241	267 467 -	216,942 241,671 13,241	490,170 684,748 37,183							
	740,247	_	471,120	734	471,854	1,212,101							
Obligations related to assets sold under repurchase agreements and													
securities loaned	34,658	-	_	_	_	34,658							
Other liabilities Subordinated debentures	51,561	_	1,983 13,602	16,306	18,289 13,602	69,850 13,602							
	\$ 826,466	\$ -	\$ 486,705	\$ 17,040	\$ 503,745	\$ 1,330,211							

			As	at Oc	tober 31, 2023 (	Restated – Note 2	)		
	Fair value	F	air valı	Je n	nay not app	roximate car	rying value	Total	
	approximates		Fair val	ue r	neasureme	nts using			
(Millions of Canadian dollars)	carrying value (1)		Level 1		Level 2	Level 3	Total	fair value	
Interest-bearing deposits with banks	\$ 10,230	\$	_	\$	_	\$ -	\$ -	\$ 10,230	
Amortized cost securities (2)	_		34		83,633	_	83,667	83,667	
Assets purchased under reverse repurchase agreements and									
securities borrowed	39,528		_		14,794	_	14,794	54,322	
Loans									
Retail	70,606		-		466,962	4,912	471,874	542,480	
Wholesale	8,231		_		254,342	6,270	260,612	268,843	
	78,837		_		721,304	11,182	732,486	811,323	
Other assets	67,313		_		914	223	1,137	68,450	
	195,908		34		820,645	11,405	832,084	1,027,992	
Deposits									
Personal	252,779		_		159,669	438	160,107	412,886	
Business and government	385,727		-		218,761	772	219,533	605,260	
Bank	16,902		_		16,251	7	16,258	33,160	
	655,408		_		394,681	1,217	395,898	1,051,306	
Obligations related to assets sold under repurchase agreements and									
securities loaned	36,559		_		_	_	_	36,559	
Other liabilities	77,021		_		1,856	13,564	15,420	92,441	
Subordinated debentures	_		-		11,213	_	11,213	11,213	
	\$ 768,988	\$	-	\$	407,750	\$ 14,781	\$ 422,531	\$ 1,191,519	

<sup>(1)</sup> Certain financial instruments have not been assigned to a level as the carrying amount approximates their fair values.

Fair values of financial assets and liabilities carried at amortized cost and disclosed in the table above are determined using the following valuation techniques and inputs.

#### Amortized cost securities

Fair values of government bonds, corporate bonds, and ABS are based on quoted prices. Fair values of certain Non-OECD government bonds are based on vendor prices or the discounted cash flow method with yield curves of other countries' government bonds as inputs. For ABS, where market prices are not available, the fair value is determined using the discounted cash flow method. The inputs to the valuation model generally include market interest rates, spreads and yields derived from comparable securities, prepayment, and LGD.

# Assets purchased under reverse repurchase agreements and securities borrowed, and Obligations related to assets sold under repurchase agreements and securities loaned

Valuation methods used for the long-term instruments are described in the Fair value of assets and liabilities measured on a recurring basis and classified using the fair value hierarchy section of this note. The carrying values of short-term instruments generally approximate their fair values.

#### Loans - Retail

Retail loans include residential mortgages, personal and small business loans and credit cards. For residential mortgages, and personal and small business loans, we segregate the portfolio based on certain attributes such as product type, contractual interest rate, term to maturity and credit scores, if applicable. Fair values of these loans are determined by the discounted cash flow method using applicable inputs such as prevailing interest rates, contractual and posted client rates, client discounts, credit spreads, prepayment rates and loan-to-value (LTV) ratios. Fair values of credit card receivables are also calculated based on a discounted cash flow method with portfolio yields, write-offs and monthly payment rates as inputs. The carrying values of short-term and variable rate loans generally approximate their fair values.

#### Loans - Wholesale

Where market prices are available, wholesale loans are valued based on market prices. Otherwise, fair value is determined by the discounted cash flow method using the following inputs: market interest rates and market based spreads of assets with similar credit ratings and terms to maturity, LGD, expected default frequency implied from credit default swap prices, if available, and relevant pricing information such as contractual rate, origination and maturity dates, redemption price, coupon payment frequency and date convention.

<sup>(2)</sup> Included in Securities – Investment, net of applicable allowance on the Consolidated Balance Sheets.

#### Note 3 Fair value of financial instruments (continued)

#### **Deposits**

Deposits are comprised of demand, notice, and term deposits which include senior deposit notes we have issued to provide us with long-term funding. Fair values of term deposits are determined by one of several valuation techniques: (i) for term deposits and similar instruments, we segregate the portfolio based on term to maturity. Fair values of these instruments are determined by the discounted cash flow method using inputs such as client rates for new sales of the corresponding terms; and (ii) for senior deposit notes, we use actual traded prices, vendor prices or the discounted cash flow method using a market interest rate curve and our funding spreads as inputs. The carrying values of demand, notice, and short-term term deposits generally approximate their fair values.

#### Other assets and Other liabilities

Other assets and Other liabilities include receivables and payables relating to certain commodities. Fair values of the commodity receivables and payables are calculated by the discounted cash flow method using applicable inputs such as market interest rates, counterparties' credit spreads, our funding spreads, commodity forward prices and spot prices.

#### Subordinated debentures

Fair values of Subordinated debentures are based on market prices, dealer quotes or vendor prices when available. Where prices cannot be observed, fair value is determined using the discounted cash flow method, with applicable inputs such as market interest rates and credit spreads.

# Carrying value of securities

currying value of securities	As at October 31, 2024									
		Te	erm to maturity	<b>y</b> (1)						
						With no				
	Within	3 months	1 year to 5	5 years to	Over	specific				
(Millions of Canadian dollars)	3 months	to 1 year	years	10 years	10 years	maturity	Total			
<b>Trading</b> (2) Debt issued or guaranteed by:										
Canadian government	\$ 2,026	\$ 8,712	\$ 6,054	\$ 3,509	\$ 10,071	\$ -	\$ 30,372			
U.S. federal, state, municipal and agencies	2,599	1,423	13,648	4,336	8,982	_	30,988			
Other OECD government	710	246	1,578	972	1,128	_	4,634			
Mortgage-backed securities Asset-backed securities	289	213	387	406	3 139	_	3 1,434			
Corporate debt and other debt	20)	213	307	100	137					
Bankers' acceptances Other (3)	2,026	- 3,178	- 8,170	4,200	- 8,617	_	26,191			
Equities	2,020	3,176	8,170	4,200	0,017	89,674	89,674			
	7,654	13,772	29,837	13,423	28,940	89,674	183,300			
Fair value through other										
comprehensive income (2) Debt issued or guaranteed by:										
Canadian government										
Federal Amortized cost	2,068	2,810	7,893	394	_	_	13,165			
Fair value	2,068	2,803	7,904	394	-	_	13,169			
Yield (4) Provincial and municipal	3.2%	2.4%	2.9%	2.9%	-	-	2.9%			
Amortized cost	154	2,768	3,827	334	480	_	7,563			
Fair value Yield (4)	154 3.6%	2,767 2.2%	3,833 3.3%	333 2.7%	467 4.3%	_	7,554 3.0%			
U.S. federal, state, municipal	3.0 /0	2.2 /0	3.3 /0	2.7 /0	7.5 /0	_	3.0 %			
and agencies Amortized cost	1,154	1,198	30,773	33,906	14,601		81,632			
Fair value	1,134	1,196	30,773	33,831	13,260	_	80,266			
Yield (4)	5.6%	2.1%	3.1%	3.9%	3.3%	-	3.5%			
Other OECD government Amortized cost	300	1,510	8,389	_	_	_	10,199			
Fair value	300	1,511	8,345	-	-	-	10,156			
Yield (4) Mortgage-backed securities	1.2%	3.6%	3.5%	_	_	_	3.4%			
Amortized cost	-	-	_	58	2,588	-	2,646			
Fair value Yield (4)	_	_	_	56 6.1%	2,578 5.9%	_	2,634 5.9%			
Asset-backed securities										
Amortized cost Fair value	_	_	_	4,258 4,263	5,085 5,094	_	9,343 9,357			
Yield (4)	-	-	-	6.2%	6.4%	-	6.3%			
Corporate debt and other debt Amortized cost	7,028	2,703	20,830	991	380	_	31,932			
Fair value	7,027	2,707	20,858	1,010	380	-	31,982			
Yield (4) Equities	3.2%	3.8%	4.0%	5.0%	5.3%	_	3.9%			
Cost						728	728			
Fair value (5) Amortized cost	10,704	10,989	71,712	39,941	23,134	1,242 728	1,242 157,208			
Fair value	10,704	10,984	71,712	39,887	23,134	1,242	156,360			
Amortized cost (2)										
Debt issued or guaranteed by: Canadian government	216	7,516	17,571	6,160	_	_	31,463			
Yield (4)	2.4%	1.7%	3.0%	2.0%	_	_	2.4%			
U.S. federal, state, municipal and agencies	2,029	5,659	13,197	4,882	20,221	_	45,988			
Yield (4)	2.5%	3.6%	3.4%	3.2%	2.6%	_	3.0%			
Other OECD government Yield (4)	61 0.9%	1,133 2.3%	5,169 3.2%	202 3.3%	_	_	6,565 3.0%			
Asset-backed securities	0.5%	2.3 %	2	32	_	_	34			
Yield (4)	- 526	2 677	0.3%	5.6%	22	_	5.2%			
Corporate debt and other debt Yield (4)	526 2.9%	3,677 3.1%	11,724 3.6%	259 3.5%	5.3%	_	16,208 3.5%			
Amortized cost, net of allowance	2,832	17,985	47,663	11,535	20,243	-	100,258			
Fair value	2,826	17,855	47,481	10,701	17,473	- c 00.016	96,336			
Total carrying value of securities	\$ 21,217	\$ 42,741	\$ 149,237	\$ 64,845	\$ 70,962	\$ 90,916	\$ 439,918			

			A	s at October 31, 20	)23		
		Te	erm to maturit	y (1)			
(Millions of Canadian dollars)	Within 3 months	3 months to 1 year	1 year to 5 years	5 years to 10 years	Over 10 years	With no specific maturity	Total
Trading (2)		,	,	,	,	,	
Debt issued or guaranteed by: Canadian government	\$ 9,867	\$ 17,244	\$ 8,687	\$ 2,932	\$ 6,915	\$ -	\$ 45,645
U.S. federal, state, municipal	15,507	8,136	15,864	4.375	8,806	_	52,688
and agencies Other OECD government	566	1,117	815	1,040	1,094	_	4,632
Mortgage-backed securities Asset-backed securities	- 452	- 151	234	307	2 101	_	2 1,245
Corporate debt and other debt		131	234	307	101		
Bankers' acceptances Other (3)	143 1,207	2,219	6,681	3,656	8,709	_	143 22,472
Equities		_,				63,324	63,324
Education of the state of the s	27,742	28,867	32,281	12,310	25,627	63,324	190,151
Fair value through other comprehensive income (2) Debt issued or guaranteed by: Canadian government Federal							
Amortized cost Fair value	2,479 2,479	1,247 1,242	1,726 1,707	640 515	517 316	-	6,609 6,259
Yield (4)	4.5%	3.2%	2.6%	1.2%	3.4%	_	3.4%
Provincial and municipal Amortized cost	469	8	1,159	52	1,708	_	3,396
Fair value	469	8	1,158	52	1,061	_	2,748
Yield (4) U.S. federal, state, municipal	4.9%	3.7%	2.8%	4.5%	4.4%	_	3.8%
and agencies	0.46	0.505	22.044	16 255	16.406		75.226
Amortized cost Fair value	846 856	8,595 8,572	33,044 33,050	16,355 16,193	16,486 14,624	_	75,326 73,295
Yield (4) Other OECD government	7.4%	2.1%	2.7%	4.0%	3.6%	_	3.2%
Amortized cost	160	1,009	5,030	1	_	_	6,200
Fair value Yield (4)	160 6.3%	1,009 4.0%	5,022 3.0%	1 4.6%	_	_	6,192 3.3%
Mortgage-backed securities					2.702		
Amortized cost Fair value	_	_	32 31	28 25	2,702 2,645	_	2,762 2,701
Yield (4) Asset-backed securities	_	-	7.5%	6.7%	6.8%	-	6.8%
Amortized cost	_	_	16	7,542	1,194	_	8,752
Fair value Yield (4)	_	_	17 6.4%	7,503 6.9%	1,186 7.0%	_	8,706 6.9%
Corporate debt and other debt							
Amortized cost Fair value	4,928 4,928	1,759 1,755	18,798 18,761	2,248 2,243	41 36	_	27,774 27,723
Yield (4)	3.9%	4.2%	3.9%	5.4%	4.7%	_	4.1%
Equities Cost						493	493
Fair value (5)	0.000	12 (10	50.805	26.066	22 ( 40	842	121 212
Amortized cost Fair value	8,882 8,892	12,618 12,586	59,805 59,746	26,866 26,532	22,648 19,868	493 842	131,312 128,466
Amortized cost (2)							
Debt issued or guaranteed by: Canadian government	997	1,931	17,448	6,468	_	_	26,844
Yield (4)	2.8%	3.0%	2.1%	2.0%	-	-	2.2%
U.S. federal, state, municipal and agencies	424	1,427	14,536	5,156	23,025	_	44,568
Yield (4) Other OECD government	5.0% 375	4.1% 723	3.3% 4,362	2.9% 66	2.5%	-	2.9% 5,526
Yield (4)	2.0%	0.8%	2.9%	1.1%		_	2.5%
Asset-backed securities Yield (4)	_	_	424 4.9%	_	1 1.4%	_	425 4.9%
Corporate debt and other debt	838	1,443	11,256	190	23	_	13,750
Yield (4) Amortized cost, net of allowance	2.3%	2.9% 5,524	3.4% 48,026	3.1%	5.6% 23,049		3.3% 91,113
Fair value	2,627	5,447	46,258	10,276	19,059		83,667
Total carrying value of securities	\$ 39,268	\$ 46,977	\$ 140,053	\$ 50,722	\$ 68,544	\$ 64,166	\$ 409,730

Actual maturities may differ from contractual maturities shown above as borrowers may have the right to extend or prepay obligations with or without penalties.

Trading securities and FVOCI securities are recorded at fair value. Amortized cost securities, included in Investment securities, are recorded at amortized cost and presented net of allowance for credit losses.

Primarily composed of corporate debt, supra-national debt, and commercial paper.

The weighted average yield is derived using the contractual interest rate and the carrying value at the end of the year for the respective securities.

Certain equity securities that are not held-for-trading purposes are designated as FVOCI. (2)

<sup>(3)</sup> 

<sup>(4)</sup> 

<sup>(5)</sup> 

	As at										
		October	<b>31, 2024</b> (3)				Octob	er 31,	2023		
(Millions of Canadian dollars)	Cost/ Amortized cost	Gross unrealized gains	Gros unrealize losse	d	Fair value	Cost/ Amortized cost	Gross unrealized gains	l ur	Gross nrealized losses I	-air value	
Debt issued or guaranteed by:											
Canadian government											
Federal	\$ 13,165	\$ 31	\$ (2	7) \$	\$ 13,169	\$ 6,609	\$ 1	\$	(351) \$	6,259	
Provincial and municipal	7,563	27	(3	6)	7,554	3,396	2		(650)	2,748	
U.S. federal, state, municipal and											
agencies	81,632	333	(1,69	9)	80,266	75,326	343	;	(2,374)	73,295	
Other OECD government	10,199	6	(4	9)	10,156	6,200	1		(9)	6,192	
Mortgage-backed securities	2,646	3	(1	5)	2,634	2,762	-	-	(61)	2,701	
Asset-backed securities	9,343	17	(	3)	9,357	8,752	5	,	(51)	8,706	
Corporate debt and other debt	31,932	101	(5	1)	31,982	27,774	44	ļ	(95)	27,723	
Equities	728	519	(	5)	1,242	493	357	'	(8)	842	
	\$ 157,208	\$ 1,037	\$ (1,88	5) 9	\$ 156,360	\$ 131,312	\$ 753	\$	(3,599) \$	128,466	

<sup>(1)</sup> Excludes \$100,258 million of held-to-collect securities as at October 31, 2024 that are carried at amortized cost, net of allowance for credit losses (October 31, 2023 – \$91,113 million).

## 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.

## Allowance for credit losses – securities at FVOCI (1)

					For the ye	ar en	ded					
		October	31, 2024						October	31, 2	.023	
	Performin	g	Impai	red			Perfo	rming	3		Impaired	
(Millions of Canadian dollars)	Stage 1	Stage 2	Stage	e 3 (2)	Total		Stage 1		Stage 2		Stage 3 (2)	Total
Balance at beginning of period	\$ 4 \$	_	\$	(37) \$	(33)	\$	3	\$	1	\$	(23) \$	(19)
Provision for credit losses				` '	` '						` '	, ,
Transfers to stage 1	-	-		-	_		1		(1)		-	-
Transfers to stage 2	_	_		-	_		-		_		_	-
Transfers to stage 3	-	-		-	-		-		-		_	-
Purchases	10	-		-	10		7		-		_	7
Sales and maturities	(4)	-		-	(4)		(2)		-		_	(2)
Changes in risk, parameters and												
exposures	(4)	-		(8)	(12)		(5)		_		(17)	(22)
Exchange rate and other	_	-		4	4		-		_		3	3
Balance at end of period	\$ 6 \$	-	\$	(41) \$	(35)	\$	4	\$	-	\$	(37) \$	(33)

<sup>(1)</sup> Expected credit losses on debt securities at FVOCI are not separately recognized on the Consolidated Balance Sheets as the related securities are recorded at fair value. The cumulative amount of credit losses recognized in income is presented in Other components of equity.

<sup>(2)</sup> Gross unrealized gains and losses includes \$(35) million of allowance for credit losses on debt securities at FVOCI as at October 31, 2024 (October 31, 2023 – \$(33) million) recognized in income and Other components of equity.

<sup>(3)</sup> These amounts reflect certain reclassifications made upon the adoption of IFRS 17 as at November 1, 2023 with no restatement of comparative information. Refer to Note 2 for further details.

<sup>(2)</sup> Reflects changes in the allowance for purchased credit impaired securities.

## Allowance for credit losses – securities at amortized cost

						For the ye	ar end	ed					
			October	31, 20	024					October	31, 2	2023	
	Perform	ning	g	lmp	aired			Perfor	ming	5	lm	paired	
(Millions of Canadian dollars)	Stage 1		Stage 2	:	Stage 3	Total		Stage 1		Stage 2		Stage 3	Total
Balance at beginning of period	\$ 8	\$	15	\$	_	\$ 23	\$	8	\$	14	\$	-	\$ 22
Provision for credit losses													
Transfers to stage 1	_		_		_	_		-		-		-	-
Transfers to stage 2	_		_		_	_		-		-		-	-
Transfers to stage 3	_		_		_	_		-		-		-	-
Purchases	7		-		_	7		10		-		-	10
Sales and maturities	(2)		_		_	(2)		(1)		-		-	(1)
Changes in risk, parameters and													, ,
exposures	(8)		(6)		-	(14)		(9)		-		-	(9)
Exchange rate and other	1		(1)		-	-		_		1		_	1
Balance at end of period	\$ 6	\$	8	\$	-	\$ 14	\$	8	\$	15	\$	-	\$ 23

## 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 Management's Discussion and Analysis.

							As	at						
			0	ctober	31, 20	24	7.5	- C			October	31, 20	123	
	P	erfor	ming		Imp	aired			Perfor	ming		Imp	aired	
(Millions of Canadian dollars)	Sta	ge 1	Sto	ige 2	Sta	<b>ge</b> 3 (1)	Total		Stage 1		Stage 2	Sta	ge 3 (1)	Total
Investment securities														
Securities at FVOCI														
Investment grade	\$ 154,1	00	\$	_	\$	_	\$ 154,100	\$	126,732	\$	1	\$	-	\$ 126,733
Non-investment grade	8	75		_		_	875		742		_		_	742
Impaired		-		-		143	143		-		_		149	149
	154,9	75		-		143	155,118		127,474		1		149	127,624
Items not subject to impairment (2)							1,242							842
							\$ 156,360							\$ 128,466
Securities at amortized cost														
Investment grade	\$ 99,2	24	\$	_	\$	_	\$ 99,224	\$	89,947	\$	_	\$	_	\$ 89,947
Non-investment grade	8	56		192		-	1,048		990		199		_	1,189
	100,0	80		192		_	100,272		90,937		199		_	91,136
Allowance for credit losses		6		8		-	14		8		15		-	23
	\$ 100,0	74	\$	184	\$	-	\$ 100,258	\$	90,929	\$	184	\$	_	\$ 91,113

<sup>1)</sup> Reflects \$143 million of purchased credit impaired securities (October 31, 2023 – \$149 million).

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

## Note 5 Loans and allowance for credit losses

## Loans by geography and portfolio net of allowance

	As at October 31, 2024										
		United	Other		Allowance for	Total net					
(Millions of Canadian dollars)	Canada	States	International	Total	loan losses (1)	of allowance					
Retail (2)											
Residential mortgages	\$ 441,191	\$ 33,092	\$ 3,261	\$ 477,544	\$ (572)	\$ 476,972					
Personal	86,977	18,148	3,213	108,338	(1,389)	106,949					
Credit cards (3)	24,619	653	293	25,565	(1,164)	24,401					
Small business (4)	15,531	_	-	15,531	(258)	15,273					
Wholesale (2), (5)	189,378	119,231	51,830	360,439	(2,654)	357,785					
Total loans	\$ 757,696	\$ 171,124	\$ 58,597	\$ 987,417	\$ (6,037)	\$ 981,380					
Undrawn Ioan commitments – Retail	300,071	5,099	4,100	309,270	(172)						
Undrawn loan commitments – Wholesale	180,687	264,309	88,787	533,783	(139)						

				As at Oc	tob	er 31, 2023		
(Millions of Canadian dollars)	Canada	United States	1	Other International		Total	 llowance for oan losses (1)	Total net of allowance
Retail (2)	candaa	States		- International		10101	 7411 103363 (1)	diowance
Residential mortgages Personal	\$ 397,605 79,705	\$ 33,683 15,751	\$	3,213 3,278	\$	434,501 98,734	\$ (481) (1,145)	\$ 434,020 97,589
Credit cards (3) Small business (4)	22,140 13,681	624		271		23,035 13,681	(1,013) (180)	22,022 13,501
Wholesale (2), (5)	121,762	119,067		46,997		287,826	(2,185)	285,641
Total loans	\$ 634,893	\$ 169,125	\$	53,759	\$	857,777	\$ (5,004)	\$ 852,773
Undrawn loan commitments – Retail Undrawn loan commitments – Wholesale	277,863 128,967	5,054 247,881		3,173 84,633		286,090 461,481	(152) (136)	

- Excludes allowance for loans measured at FVOCI of \$4 million (October 31, 2023 \$6 million).
- Geographic information is based on residence of the borrower.
- The credit cards business is managed as a single portfolio and includes both consumer and business cards.
- Includes small business exposure managed on a pooled basis.
- Includes small business exposure managed on an individual client basis.

## Loans maturity and rate sensitivity

				As at Octo	ber 31, 2024			
	Mo	turity term	(1)		Ro	ite sensitivi	ty	
	Under	1 to 5	Over 5			Fixed	Non-rate-	
(Millions of Canadian dollars)	1 year (2)	years	years	Total	Floating	Rate	sensitive	Total
Retail						\$ 407,455		\$ 626,978
Wholesale	302,024	44,977	13,438	360,439	80,385	277,599	2,455	360,439
Total loans	\$ 644,576	\$ 285,972	\$ 56,869	\$987,417	\$ 291,412	\$ 685,054	\$ 10,951	\$ 987,417
Allowance for loan losses				(6,037)				(6,037)
Total loans net of allowance for loan losses	\$ 644,576	\$ 285,972	\$ 50,832	\$981,380	\$ 291,412	\$ 685,054	\$ 4,914	\$ 981,380

				As at Octob	oer 31, 2023			
	N	laturity term	n (1)			Rate sensitiv	vity .	_
(Millions of Canadian dollars)	Under 1 year (2)	1 to 5 years	Over 5 years	Total	Floating	Fixed Rate	Non-rate- sensitive	
Retail Wholesale	\$ 276,720 236,126	\$ 249,210 39,358	\$ 44,021 12,342	\$ 569,951 287,826		\$ 378,656 232,024	\$ 7,691 2,147	\$ 569,951 287,826
Total loans Allowance for loan losses	\$ 512,846	\$ 288,568	\$ 56,363	\$ 857,777 (5,004)	\$ 237,259	\$ 610,680	\$ 9,838	\$ 857,777 (5,004)
Total loans net of allowance for loan losses				\$ 852,773				\$ 852,773

- Generally, based on the earlier of contractual repricing or maturity date. Includes variable rate loans that can be repriced at the clients' discretion without penalty.

### Allowance for credit losses

	For the year ended October 31, 2024 October 31, 2023											
		C	ctober 31, 2024				C	October 31, 202	3			
(Millions of Canadian dollars)	Balance at beginning of period	Provision for credit losses	Net write-offs (1)	Exchange rate and other	Balance at end of period	Balance at beginning of period	Provision for credit losses	Net write-offs (1)	Exchange rate and other	Balance at end of period		
Retail Residential mortgages Personal Credit cards Small business	\$ 481 1,228 1,069 194	\$ 114 877 831 178	\$ (10) (616) (669) (84)	\$ (13) (7) 2 (16)	1,482 1,233	\$ 432 1,043 893 194	\$ 74 593 636 43	\$ (17) (404) (460) (39)	\$ (8) (4) - (4)	\$ 481 1,228 1,069 194		
Wholesale Customers' liability under acceptances	2,326 50	1,297 (50)	(700) -	(130) –	2,793	1,574 45	1,145 5	(293) -	(100) -	2,326 50		
	\$ 5,348	\$ 3,247	\$ (2,079)	\$ (164)	\$ 6,352	\$ 4,181	\$ 2,496	\$ (1,213)	\$ (116)	\$ 5,348		
Presented as: Allowance for loan losses Other liabilities – Provisions Customers' liability under	\$ 5,004 288				\$ 6,037 311	\$ 3,753 378				\$ 5,004 288		
acceptances Other components of equity	50 6				- 4	45 5				50 6		

<sup>(1)</sup> Loans written-off are generally subject to continued collection efforts for a period of time following write-off. The contractual amount outstanding on loans written-off during the year ended October 31, 2024 that are no longer subject to enforcement activity was \$359 million (October 31, 2023 – \$139 million).

The following table reconciles the opening and closing allowance for each major product of loans and commitments as determined by our modelled, scenario-weighted allowance and the application of expert credit judgment as applicable. Reconciling items include the following:

- Model changes, which generally comprise the impact of significant changes to the quantitative models used to estimate expected credit losses and any staging impacts that may arise.
- 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.

								For the ye	ear ei	nded						
				October	31, 2	2024						October	31, 2	023		
		Perfo	rming			Impaired				Perfo	ming			Impaired		
(Millions of Canadian dollars)		Stage 1		Stage 2		Stage 3		Total		Stage 1		Stage 2		Stage 3		Total
Residential mortgages Balance at beginning of period Provision for credit losses Transfers to stage 1 Transfers to stage 2	\$	223 99 (23)	\$	90 (97) 36	\$	168 (2) (13)	\$	481 - -	\$	95 (26)	\$	65 (95) 38	\$	132 - (12)	\$	432
Transfers to stage 3 Originations Maturities Changes in risk, parameters and		(5) 94 (19)		(42) - (17)		47 - -		94 (36)		(2) 89 (17)		(13) - (9)		15 - -		89 (26)
exposures Write-offs Recoveries		(155) - - 1		157 - - (1)		54 (23) 13		56 (23) 13		(152) - - 1		103 - - 1		60 (30) 13 (10)		11 (30) 13
Exchange rate and other  Balance at end of period	\$	215	Ś	126	\$	231	Ś	(13) 572	\$		\$	90	\$	168	Ś	(8) 481
balance at ena of period	7	213	٧	120	<u>,</u>	231	<u> </u>	372	, ,		<u> </u>		7	100	7	
Personal Balance at beginning of period Provision for credit losses Transfers to stage 1 Transfers to stage 2	\$	280 537 (75)	\$	793 (537) 78	\$	155 - (3)	\$	1,228	\$	285 696 (88)	\$	661 (695) 90	\$	97 (1) (2)	\$	1,043 - -
Transfers to stage 3 Originations Maturities Changes in risk, parameters and exposures		(3) 116 (51) (499)		(130) - (186) 947		133 - - 550		- 116 (237) 998		(1) 103 (45)		(57) - (112) 906		58 412		103 (157)
Write-offs Recoveries Exchange rate and other		(499) - - -		947 - - 1		(745) 129 (8)		(745) 129 (7)		(671) - - 1		900 - - -		(518) 114 (5)		(518) 114 (4)
Balance at end of period	\$	305	\$	966	\$	211	\$	1,482	\$	280	\$	793	\$	155	\$	1,228
Credit cards Balance at beginning of period Provision for credit losses Transfers to stage 1 Transfers to stage 2	\$	203 559 (111)	\$	866 (559) 111	\$	- - -	\$	1,069 - -	\$	177 539 (101)	\$	716 (539) 101	\$	- - -	\$	893 _ _
Transfers to stage 3 Originations Maturities Changes in risk, parameters and		(2) 25 (5)		(483) - (48)		485		25 (53)		(2) 13 (6)		(394) - (33)		396 - -		13 (39)
exposures Write-offs Recoveries Exchange rate and other		(465) - - 3		1,139 - - -		185 (892) 223 (1)		859 (892) 223 2		(417) - - -		1,015 - - -		64 (650) 190 –		662 (650) 190
Balance at end of period	\$	207	\$	1,026	\$	_	\$	1,233	\$	203	\$	866	\$	_	\$	1,069
Small business Balance at beginning of period Provision for credit losses Transfers to stage 1	\$	70 35	\$	66 (35)	\$	58	\$	194	\$	73 39	\$	73 (39)	\$	48	\$	194
Transfers to stage 2 Transfers to stage 3 Originations Maturities		(20) (1) 43 (17)		20 (10) - (21)		11 - -		- 43 (38)		(14) (1) 36 (18)		14 (10) - (21)		11 - -		- 36 (39)
Changes in risk, parameters and exposures Write-offs Recoveries		(31) - -		65 _ _		139 (98) 14		173 (98) 14		(48) - -		44 - -		50 (50) 11		46 (50) 11
Exchange rate and other		1	<u>,</u>	1	Ć	(18)	<u>,</u>	(16)		3	ċ	5		(12)	ċ	(4)
Balance at end of period	\$	80	\$	86	\$	106	\$	272	\$	70	\$	66	\$	58	\$	194
Wholesale Balance at beginning of period Provision for credit losses Transfers to stage 1	\$	774 284	\$	785 (282)	\$	767 (2)	\$	2,326	\$	597 216	\$	585 (215)	\$	392 (1)	\$	1,574
Transfers to stage 2 Transfers to stage 3 Originations Maturities		(152) (9) 737 (438)		159 (77) – (379)		(7) 86 - -		- - 737 (817)		(87) (10) 651 (448)		89 (60) - (270)		(2) 70 –		- - 651 (718)
Changes in risk, parameters and exposures Write-offs		(407) - -		827		957 (763)		1,377 (763)		(153)		647		718 (324)		1,212 (324)
Recoveries Exchange rate and other		(2)		5		63 (133)		63 (130)		8		9		31 (117)		(100)
Balance at end of period	\$	787	\$	1,038	\$	968	\$	2,793	\$	774	\$	785	\$	767	\$	2,326

## Note 5 Loans and allowance for credit losses (continued)

## Key inputs and assumptions

The measurement of expected credit losses is a complex calculation that involves a significant number of interrelated inputs and assumptions and the allowance is not sensitive to any one single factor. The key drivers of changes in expected credit losses include the following:

- · Changes in the credit quality of the borrower or instrument, primarily reflected in changes in internal risk ratings;
- Changes in forward-looking macroeconomic conditions, specifically the macroeconomic variables to which our models are calibrated, which are those most closely correlated with credit losses in the relevant portfolio;
- · Changes in scenario design and the weight assigned to each scenario; and
- Transfers between stages, which can be triggered by changes to any of the above inputs.

To reflect relevant risk factors not captured in our modelled results, we applied expert credit judgment in determining the measurement of our weighted allowance for credit losses. The measurement of expected credit losses, including scenario design and weightings, determining significant increases in credit risk since origination and application of expert credit judgment, is overseen by a senior management committee that includes representation from Finance, Group Risk Management and Economics.

## Internal risk ratings

Internal risk ratings are assigned according to the risk management framework outlined under the headings Wholesale credit risk and Retail credit risk of the Credit risk section of Management's Discussion and Analysis. Changes in internal risk ratings are primarily reflected in the PD parameters, which are estimated based on our historical loss experience at the relevant risk segment or risk rating level, adjusted for forward-looking information.

## Scenario design and weightings

Our estimation of expected credit losses in Stage 1 and Stage 2 considers five distinct future macroeconomic scenarios. Scenarios are designed to capture a wide range of possible outcomes and are weighted according to our expectation of the relative likelihood of the range of outcomes that each scenario represents at the reporting date. We weight each scenario to take into account historical frequency, current trends, and forward-looking conditions which will change over time. Scenario weightings take into consideration the extent to which the base case scenario includes both favourable and unfavourable economic expectations, and upside and downside risks to the base scenario materializing in the future. The base case scenario is based on forecasts of the expected rate, value, or yield for each relevant macroeconomic variable. The upside and downside scenarios are set by adjusting our base projections to construct reasonably possible scenarios and weightings that are more optimistic and pessimistic, respectively, than the base case. Two additional downside scenarios capture the non-linear nature of potential credit losses across our portfolios. When the economy is at or near equilibrium, the severity of the downside scenario generally reflects an adverse event typical for a business cycle and both the non-linear downside scenarios reflect an outcome that is materially more adverse than the downside scenario.

The impact of each of our five scenarios varies across our portfolios given the portfolios have different sensitivities to movements in each macroeconomic variable.

The impact of weighting these multiple scenarios increased our ACL on performing loans, relative to our base scenario, by \$945 million as at October 31, 2024 (October 31, 2023 – \$868 million).

## Forward looking macroeconomic variables

The PD, LGD and EAD inputs used to estimate Stage 1 and Stage 2 credit loss allowances are modelled based on the macroeconomic variables (or changes in macroeconomic variables) that are most closely correlated with credit losses in the relevant portfolio. Each macroeconomic scenario used in our expected credit loss calculation includes a projection of all relevant macroeconomic variables used in our models for a five-year horizon, reverting to long-run averages generally within the 2 to 5 year period. Depending on their usage in the models, macroeconomic variables are projected at a country, province/state or more granular level. These include one or more of the variables described below, which differ by portfolio and region.

Our allowance for credit losses reflects our economic outlook as at October 31, 2024. Subsequent changes to this forecast and related estimates will be reflected in our allowance for credit losses in future periods.

Our base scenario reflects rising unemployment rates in the near-term in Canada and the U.S. Central bank policy interest rate cuts are expected to continue as inflation declines. Central bank policy interest rate cuts in Canada are expected to be larger than in other regions due to slower economic growth and higher unemployment rates.

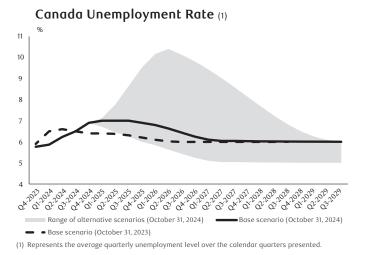
Downside scenarios, including two additional and more severe downside scenarios designed for the real estate and energy sectors, reflect the possibility of a more severe macroeconomic shock beginning in calendar Q1 2025 relative to our base scenario. In these scenarios, conditions are expected to deteriorate from calendar Q4 2024 levels for up to 18 months, followed by a recovery for the remainder of the period. These scenarios assume monetary policy responses that return the economy to a long-run, sustainable growth rate within the forecast period.

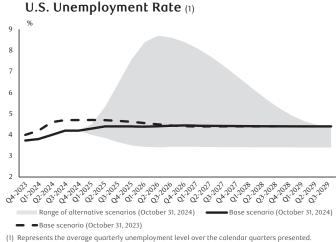
The upside scenario reflects slightly stronger economic growth than the base scenario, without prompting a further offsetting monetary policy response as compared to our base scenario, followed by a return to a long-run sustainable growth rate within the forecast period.

We reduced weight to our downside scenarios relative to October 31, 2023, in order to reflect the reduced likelihood of recessions as reflected in our downside scenarios.

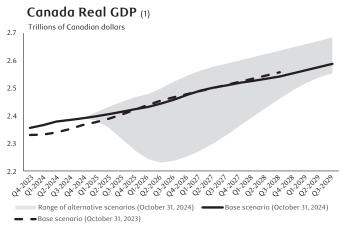
The following provides additional detail about our calendar quarter forecasts for certain key macroeconomic variables used in the models to estimate ACL:

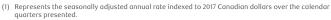
• *Unemployment* – In our base forecast, we expect the Canadian unemployment rate to rise to 6.9% in calendar Q4 2024, peaking at 7.0% in calendar Q1 2025, then returning to its long run equilibrium by calendar Q2 2027. The U.S. unemployment rate is expected to rise to 4.2% in calendar Q4 2024, then increase to its long run equilibrium level by calendar Q2 2025.

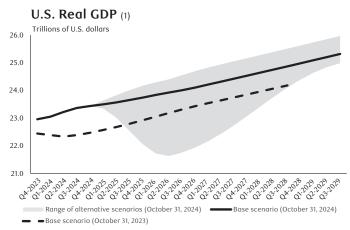




• Gross Domestic Product (GDP) – In our base forecast, we expect both Canadian and U.S. GDP to continuously grow in calendar Q4 2024 and thereafter. GDP in calendar Q4 2025 is expected to be 1.4% and 1.3% above Q4 2024 levels in Canada and the U.S., respectively.







- (1) Represents the seasonally adjusted annual rate indexed to 2017 U.S. dollars over the calendar quarters presented.
- Canadian housing price index In our base forecast, we expect housing prices to increase by 0.7% over the next 12 months from calendar Q4 2024, with a compound annual growth rate of 3.0% for the following 2 to 5 years. The range of annual housing price growth (contraction) in our alternative real estate downside and upside scenarios is (30.0)% to 10.9% over the next 12 months and 4.2% to 9.6% for the following 2 to 5 years. As at October 31, 2023, our base forecast included housing price growth of 1.6% from calendar Q4 2023 for the next 12 months and housing price growth of 5.0% for the following 2 to 5 years.
- Oil price (West Texas Intermediate in US\$) In our base forecast, we expect oil prices to average \$69 per barrel over the next 12 months from calendar Q4 2024 and \$66 per barrel in the following 2 to 5 years. The range of average prices in our alternative downside and upside scenarios is \$27 to \$89 per barrel for the next 12 months and \$42 to \$71 per barrel for the following 2 to 5 years. As at October 31, 2023, our base forecast included an average price of \$81 per barrel for the next 12 months and \$67 per barrel for the following 2 to 5 years.

## Note 5 Loans and allowance for credit losses (continued)

The primary variables driving credit losses in our retail portfolios are Canadian unemployment rates, Canadian housing price index and Canadian GDP. The Canadian overnight interest rate also impacts our retail portfolios. Our wholesale portfolios are affected by all of the variables discussed above; however, the specific variables differ by sector. Other variables also impact our wholesale portfolios including, but not limited to, Canadian and U.S. 10 year BBB corporate bond credit spreads, Canadian and U.S. 10 year government bond yields, U.S. 10 year BBB corporate bond yield, Canadian consumer confidence index, Canadian and U.S. commercial real estate price indices, U.S. housing price index, and natural gas prices (Henry Hub).

Increases in the following macroeconomic variables will generally correlate with higher expected credit losses: Canadian and U.S. unemployment rates, Canadian overnight interest rates, Canadian and U.S. 10 year BBB corporate bond credit spreads, Canadian and U.S. 10 year government bond yields, and U.S. 10 year BBB corporate bond yield.

Increases in the following macroeconomic variables will generally correlate with lower expected credit losses: Canadian and U.S. housing price indices, Canadian and U.S. GDP, Canadian consumer confidence index, Canadian and U.S. commercial real estate price indices, and oil and natural gas prices.

## Transfers between stages

Transfers between Stage 1 and Stage 2 are based on the assessment of significant increases in credit risk relative to initial recognition, as described in Note 2. The impact of moving from 12 months expected credit losses to lifetime expected credit losses, or vice versa, varies by product and is dependent on the expected remaining life at the date of the transfer. Stage transfers may result in significant fluctuations in expected credit losses.

The following table illustrates the impact of staging on our ACL by comparing our allowance if all performing loans were in Stage 1 to the actual ACL recorded on these assets.

			As	at		
	Octo	ber 31, 2024		Octo	ober 31, 2023	
(Millions of Canadian dollars)	ACL – All performing loans in Stage 1	Impact of staging	Stage 1 and 2 ACL	ACL – All performing loans in Stage 1	Impact of staging	Stage 1 and 2 ACL
Performing loans (1)	\$ 3,313	\$ 1,523	\$ 4,836	\$ 2,893	\$ 1,257	\$ 4,150

<sup>(1)</sup> Represents loans and commitments in Stage 1 and Stage 2.

## 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 Management's Discussion and Analysis.

		Octobe	er 31.	2024					Octobe	r 31. 2	023		
(Millions of Canadian dollars)	Stage 1			e 3 (1), (2)	Total		Stage 1				23 (1), (2)		Total
Retail	Stage 1	Stuge 2	Jug.	C 3 (1), (2)	10101		Juge 1		Stage 2	Jugo	2 3 (1), (2)		10101
Loans outstanding –Residential mortgages Low risk	\$ 388,742	\$ 1,354	\$		\$ 390,096	¢	349,001	\$	1,630	\$		\$	350,631
Medium risk	18,419	4,479	Ą	_	22,898	ې	19,126	Ų	1,610	Ą	_	Ų	20,736
High risk	1,761	6,593		_	8,354		1,582		4,927		_		6,509
Not rated (3)	52,569	1,479		-	54,048		54,247		1,220		_		55,467
Impaired	-			1,233	1,233		_		_		682		682
	461,491	13,905		1,233	476,629		423,956		9,387		682		434,025
Items not subject to impairment (4)					915								476
Total					\$ 477,544							\$	434,501
Loans outstanding -Personal													
Low risk		\$ 1,680	\$	-	\$ 84,584	\$	75,572	\$	1,676	\$	-	\$	77,248
Medium risk	5,525	3,063		_	8,588		5,587		2,915		_		8,502
High risk	592	2,365		-	2,957		477		2,088		_		2,565
Not rated (3) Impaired	11,303	498		408	11,801 408		9,982		157 –		280		10,139 280
Total	\$ 100,324	\$ 7,606	\$	408	\$ 108,338	\$	91,618	\$	6,836	\$	280	\$	98,734
Loans outstanding – Credit cards	Ş 100,324	7 7,000	<u> </u>	700	7 100,550	Ÿ	71,010	Ų	0,830	· ·	200	Ų	70,734
Low risk	\$ 17,363	\$ 177	\$	_	\$ 17,540	\$	16,331	\$	135	\$	_	\$	16,466
Medium risk	1,999	2,436		-	4,435		1,771		2,132		-		3,903
High risk	75	2,289		_	2,364		41		1,734		-		1,775
Not rated (3)	1,173	53			1,226		856		35				891
Total	\$ 20,610	\$ 4,955	\$	_	\$ 25,565	\$	18,999	\$	4,036	\$	_	\$	23,035
Loans outstanding – Small business	÷ 0.420	A ==2			A 10 201	,	0.641		020				0.561
Low risk Medium risk	\$ 9,428 2,740	\$ 773 962	\$	_	\$ 10,201 3,702	\$	8,641 2,238	\$	920 936	\$	_	\$	9,561 3,174
High risk	2,740	1,086		_	1,300		2,238		592		_		691
Not rated (3)	7	1,000		_	7,300		11		J 9 Z		_		11
Impaired	-	-		321	321		-		_		244		244
Total	\$ 12,389	\$ 2,821	\$	321	\$ 15,531	\$	10,989	\$	2,448	\$	244	\$	13,681
Undrawn loan commitments – Retail													
Low risk	\$ 284,036		\$	_	\$ 284,628	\$	266,209	\$	610	\$	-	\$	266,819
Medium risk	12,110	381		-	12,491		10,759		298		-		11,057
High risk Not rated (3)	746 10,715	602 88		_	1,348 10,803		956 6,686		434 138		_		1,390 6,824
Total	\$ 307,607		\$	_	\$ 309,270	Ś	284,610	Ś	1,480	\$	_	Ś	286,090
Wholesale – Loans outstanding	7 307,007	7 1,003			7 307,270	<u> </u>	201,010	Ψ	1,100	<u> </u>		<u> </u>	200,000
Investment grade	\$ 116,549	\$ 1,471	\$	_	\$ 118,020	\$	89,037	\$	416	\$	_	\$	89,453
Non-investment grade	189,889	26,826		_	216,715		156,211		19,210		-		175,421
Not rated (3)	12,871	721		-	13,592		10,968		238		-		11,206
Impaired	-			3,905	3,905						2,498		2,498
	319,309	29,018		3,905	352,232		256,216		19,864		2,498		278,578
Items not subject to impairment (4)					8,207							_	9,248
Total					\$ 360,439							\$	287,826
Undrawn loan commitments – Wholesale	¢ 2.45 22.6	ė F16	ć		¢ 245 752	ć	212 170	ċ	106	ć		ċ	212 264
Investment grade Non-investment grade	\$ 345,236	\$ 516 14,512	\$	_	\$ 345,752 184,724	۶	312,178 130,994	\$	186 13,947	\$	_	\$	312,364 144,941
Not rated (3)	170,212 3,290	14,512		_	3,307		4,176		13,947		_		4,176
1101 14164 (3)	\$ 518,738				3,307		-		14,133	\$			1,170

<sup>(1)</sup> As at October 31, 2024, 88% of credit-impaired loans were either fully or partially collateralized (October 31, 2023 – 88%). For details on the types of collateral held against credit-impaired assets and our policies on collateral, refer to the Credit risk mitigation section of Management's Discussion and Analysis.

<sup>(2)</sup> Includes \$109 million of purchased credit-impaired loans acquired in the HSBC Canada transaction.

<sup>(3)</sup> In certain cases where an internal risk rating is not assigned, we use other approved credit risk assessments or rating methodologies, policies and tools to manage our credit risk.

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), (2)

	As at												
		Ocl	tober 31, 2024				0	ctober 31, 2023					
			90 days					90 days					
(Millions of Canadian dollars)	30 to 89 do	ys	and greater	•	Total	30 to	89 days	and greater		Total			
Retail	\$ 2,5	42	\$ 263	. :	\$ 2,805	\$	1,840	\$ 208	\$	2,048			
Wholesale	1,4	54	4		1,458		1,823	49		1,872			
	\$ 3,9	96	\$ 267	:	\$ 4,263	\$	3,663	\$ 257	Ş	3,920			

- Excludes loans less than 30 days past due as they are not generally representative of the borrowers' ability to meet their payment obligations.
- 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 or refinancing. Past due loans arising from administrative processes are not representative of the borrowers' ability to meet their payment obligations

## Note 6 Significant acquisition and disposition

(Millions of Canadian dollars, except percentage amounts)

### Acquisition

### HSBC Bank Canada

On March 28, 2024, we completed the acquisition of HSBC Bank Canada (HSBC Canada). The acquisition of HSBC Canada (the HSBC Canada transaction) gives us the opportunity to enhance our existing businesses in line with our strategic goals and better positions us to be the bank of choice for commercial clients with international needs, newcomers to Canada and globally connected clients. HSBC Canada results have been consolidated from the closing date and are included in our Personal Banking, Commercial Banking, Wealth Management and Capital Markets segments.

Total consideration of \$15.5 billion in cash included \$13.5 billion for 100% of the common shares of HSBC Canada, \$2.1 billion for the preferred shares and subordinated debt held directly or indirectly by HSBC Holdings plc, \$(0.5) billion for the settlement of pre-existing relationships with HSBC Canada and \$0.4 billion for an additional amount that accrued from August 30, 2023 to the closing date. This additional amount was calculated based on the \$13.5 billion all-cash purchase price for the common shares of HSBC Canada and the Canadian Overnight Repo Rate Average. Relatedly, under a locked box mechanism, HSBC Canada's earnings from June 30, 2022 to the closing date accrued to RBC and were reflected in the acquired net assets on closing.

During the fourth quarter of 2024, we finalized our purchase price allocation and recognized an increase in goodwill of \$98 million. Our purchase price allocation assigned \$108.1 billion to assets and \$99.1 billion to liabilities on the acquisition date. Goodwill of \$6.5 billion reflects the expected expense synergies from our Personal Banking, Commercial Banking, Wealth Management and Capital Markets operations, expected growth of the platforms, and the ability to cross-sell products between segments. Goodwill is not deductible for tax purposes.

The following table presents the estimated fair value of the assets acquired and liabilities assumed as at the acquisition date. As a result of the finalization of the purchase price allocation, certain amounts have been revised from those previously presented.

Percentage of shares acquired Purchase consideration	\$ 100% 15,488
Fair value of identifiable assets acquired	
Cash and due from banks	\$ 2,772
Securities	
Trading	1,110
Investment	21,305
Loans (i)	
Retail (2)	35,351
Wholesale	39,282
Derivatives	3,365
Intangible assets (3)	2,342
Other (4)	2,570
Total fair value of identifiable assets acquired	\$ 108,097
Fair value of identifiable liabilities assumed	
Deposits	40.00=
Personal	42,037
Business and government (2)	44,211
Obligations related to assets sold under repurchase agreements and securities loaned	5,664
Derivatives	3,541
Other (5)	3,692
Total fair value of identifiable liabilities assumed	\$ 99,145
Fair value of identifiable net assets acquired	\$ 8,952
Goodwill	6,536

- The fair value of loans reflects estimates of incurred and expected future credit losses as at the acquisition date and interest rate premiums or discounts relative to prevailing market rates. As at March 28, 2024, the gross contractual value of the loans was \$75,752 million. The estimate of contractual cash flows not expected to be collected was \$575 million, of which \$135 million related to purchased credit-impaired loans.
- Loans Retail includes \$1.7 billion of Canadian residential mortgages sold with recourse to a mutual fund that do not qualify for derecognition, and Deposits Business (2) and government includes \$1.7 billion of the related secured borrowing liability.
- Intangible assets include \$1,972 million of core deposit intangibles and \$111 million of customer relationships, which are amortized on a straight-line basis over estimated useful lives of 7 years, and \$259 million of mutual fund management contracts with indefinite useful lives.

15,488

- Includes Assets purchased under reverse repurchase agreements and securities borrowed, Customers' liability under acceptances, and Other assets.
- Includes Acceptances, Obligations related to securities sold short, and Other liabilities. (5)

Total purchase consideration

Since the acquisition date, the HSBC Canada transaction contributed revenue of \$1,716 million and net income of \$453 million to RBC's consolidated results. The net income of \$453 million includes initial PCL on purchased performing financial assets of \$200 million (\$145 million after-tax).

Assuming we acquired HSBC Canada on November 1, 2023, using the same fair value estimates and not reflecting any potential synergies, we estimate that RBC's consolidated revenue and net income for the year ended October 31, 2024 would be \$58.6 billion and \$16.6 billion, respectively.

RBC's consolidated results include transaction and integration costs of \$960 million for the year ended October 31, 2024, recognized in Non-interest expense.

#### Disposition

## Wealth Management

On July 3, 2023, we completed the sale of the European asset servicing activities of RBC Investor Services® and its associated Malaysian centre of excellence to CACEIS, the asset servicing banking group of Crédit Agricole S.A. and Banco Santander, S.A. As a result of the transaction, we recorded a pre-tax gain on disposal of \$69 million in Non-Interest income within the Wealth Management segment (\$77 million after-tax).

On December 1, 2023, we completed the sale of the RBC Investor Services business in Jersey to CACEIS. On March 25, 2024, we completed the sale of the business of the U.K. branch of RBC Investor Services Trust to CACEIS. The transactions did not have a significant impact on our Consolidated Statements of Income.

## Note 7 Derecognition of financial assets

We enter into transactions in which we transfer financial assets such as loans or securities to structured entities or other third parties. The majority of assets transferred under repurchase agreements, securities lending agreements, and in our Canadian residential mortgage securitization transactions do not qualify for derecognition as we continue to be exposed to substantially all of the risks and rewards of the transferred assets, such as prepayment, credit, price, interest rate and foreign exchange risks.

## Transferred financial assets not derecognized Securitization of Canadian residential mortgage loans

We periodically securitize insured single and multi-family Canadian residential mortgage loans through the creation of MBS pools under the National Housing Act MBS (NHA MBS) program. All loans securitized under the NHA MBS program are required to be insured by the Canadian Mortgage and Housing Corporation (CMHC) or a third-party insurer. We require the borrower to pay for mortgage insurance when the loan amount is greater than 80% of the original appraised value of the property (LTV ratio). For residential mortgage loans securitized under this program with LTV ratios less than 80%, we are required to insure the mortgages at our own expense. Under the NHA MBS program, we are responsible for making all payments due on our issued MBS, regardless of whether we collect the necessary funds from the mortgagor or the insurer. When a borrower defaults on a mortgage, we submit a claim to the insurer if the amount recovered from the collection or foreclosure process is lower than the sum of the principal balance, accrued interest and collection costs on the outstanding loan. The insurance claim process is managed by the insurance provider in accordance with the insurer's policies and covers the entire unpaid loan balance plus generally up to 12 months of interest, selling costs and other eligible expenses.

We sell the NHA MBS pools primarily to Canada Housing Trust (CHT), a government-sponsored structured entity under the Canada Mortgage Bond (CMB) program. The entity periodically issues CMBs, which are guaranteed by the government, and sells them to third-party investors. Proceeds of the CMB issuances are used by the entity to purchase the NHA MBS pools from eligible NHA MBS issuers who participate in the issuance of a particular CMB series. Our continuing involvement includes servicing the underlying residential mortgage loans we have securitized, either ourselves or through a third-party servicer. We also act as counterparty in interest rate swap agreements where we pay the entity the interest due to CMB investors and receive the interest on the underlying MBS and reinvested assets. As part of the swaps, we are also required to maintain a principal reinvestment account for principal payments received on the underlying mortgage loans to meet the repayment obligation upon maturity of the CMB. We reinvest the collected principal payments in permitted investments as outlined in the swap agreements.

We have determined that certain of the NHA MBS program loans transferred to CHT do not qualify for derecognition as we have not transferred substantially all of the risks and rewards of ownership. As a result, these transferred MBS continue to be classified as residential mortgage loans and recognized on our Consolidated Balance Sheets. The cash received for these transferred MBS is treated as a secured borrowing and a corresponding liability is recorded in Deposits – Business and government on our Consolidated Balance Sheets.

We have determined that certain of the NHA MBS program loan transfers qualify for derecognition as we have transferred substantially all of the risks and rewards of ownership. During the year ended October 31, 2024, we transferred \$122 million (October 31, 2023 – \$nil) of NHA MBS program loans that qualified for derecognition.

## Canadian residential mortgages sold with recourse

We periodically transfer conventional uninsured mortgages into the RBC Indigo Mortgage Fund in accordance with its investment parameters. We have determined that these mortgages, which are sold with recourse, do not qualify for derecognition. As a result, these transferred mortgages continue to be classified as residential mortgage loans and recognized on our Consolidated Balance Sheets. The cash received for these transferred mortgages is treated as a secured borrowing and a corresponding liability is recorded in Deposits – Business and government on our Consolidated Balance Sheets. We also provide a liquidity arrangement whereby we will either repurchase or facilitate the sale of mortgages to third parties if deemed necessary to satisfy liquidity requirements of the fund.

## Securities sold under repurchase agreements and securities loaned

We also enter into transactions such as repurchase agreements and securities lending agreements where we transfer assets under agreements to repurchase them at a future date and retain substantially all of the risks and rewards associated with the assets. These transferred assets remain on our Consolidated Balance Sheets and are accounted for as collateralized borrowing transactions.

## Note 7 Derecognition of financial assets (continued)

The following table provides information on the carrying amount and fair value of the transferred assets that did not qualify for derecognition, and their associated liabilities.

				As	at			
		October 31	, 2024			October 31	, 2023	
	Canadian residential	Securities sold under			Canadian residential	sold under		
	mortgage	repurchase			mortgage			
(Millions of Canadian dollars)	loans (1), (2)	agreements (3)	loaned (3)	Total	loans (1), (2)	agreements (3)	loaned (3)	Total
Carrying amount of transferred assets that do not qualify for derecognition Carrying amount of associated liabilities	\$ 33,101 31,522	\$ 291,543 291,543	\$ 13,778 13,778	\$ 338,422 336,843	\$ 28,312 28,007	\$ 313,558 313,558	•	\$ 363,550 363,245
Fair value of transferred assets Fair value of associated liabilities	\$ 31,760 31,445	\$ 291,543 291,543	\$ 13,778 13,778	\$ 337,081 336,766	\$ 26,472 26,780	\$ 313,558 313,558	•	\$ 361,710 362,018
Fair value of net position	\$ 315	\$ -	\$ -	\$ 315	\$ (308)	) \$ -	\$ -	\$ (308)

- Includes Canadian residential mortgage loans transferred primarily to Canada Housing Trust at the initial securitization and other permitted investments used for funding requirements after the initial securitization as well as Canadian residential mortgages transferred into the RBC Indigo Mortgage Fund.
- CMB investors have legal recourse only to the transferred assets, and do not have recourse to our general assets.
- Does not include over-collateralization of assets pledged.

### Note 8 Structured entities

In the normal course of business, we engage in a variety of financial transactions with structured entities to support our financing and investing needs as well as those of our clients. A structured entity is an entity in which voting or similar rights are not the dominant factor in deciding control. Structured entities are generally created to achieve a narrow and well defined objective with restrictions around their ongoing activities. We consolidate a structured entity when we control the entity in accordance with our accounting policy as described in Note 2. In other cases, we may sponsor or have an interest in such an entity but may not consolidate it.

### Consolidated structured entities

We consolidate the following structured entities, whose assets and liabilities are recorded on our Consolidated Balance Sheets. Third-party investors in these structured entities generally have recourse only to the assets of the related entity and do not have recourse to our general assets unless we breach our contractual obligations to those entities. In the ordinary course of business, the assets of each consolidated structured entity can generally only be used to settle the obligations of that entity.

### Multi-seller conduits

We generally do not maintain ownership in the multi-seller conduits that we administer and generally do not have rights to, or control of, their assets. However, we issue asset-backed commercial paper (ABCP) through a multi-seller conduit that does not have an expected loss investor with substantive power to direct the significant operating activities of the conduit. This conduit is consolidated because we have exposure to variability of returns from performance in the multi-seller arrangements through providing transaction-specific and program-wide liquidity, credit and loan facilities to the conduit and have decision-making power over the relevant activities. As of October 31, 2024, \$1,718 million of financial assets held by the conduit were included in Loans (October 31, 2023 – \$1,316 million) and \$1,600 million of ABCP issued by the conduit was included in Deposits (October 31, 2023 – \$1,194 million) on our Consolidated Balance Sheets.

### Credit card securitization vehicle

We securitize a portion of our credit card receivables through a structured entity on a revolving basis. The entity purchases co-ownership interests in a pool of credit card receivables and issues senior and subordinated term notes collateralized by that co-ownership interest in the underlying pool of credit card receivables. Investors who purchase the term notes have recourse only to that co-ownership interest in the underlying pool of credit card receivables.

We continue to service the credit card receivables and perform an administrative role for the entity. We also retain risk in the underlying pool of credit card receivables through our retained interest in the transferred assets, the cash reserve balance we fund from time to time, and also through certain subordinated notes which we retain. Additionally, we may own some senior notes as investments or for market-making activities and we act as counterparty to interest rate and cross currency swap agreements which hedge the entity's interest rate and currency risk exposure.

We consolidate the structured entity because we have decision-making power over the timing and size of future issuances and other relevant activities which were predetermined by us at inception. We also obtain significant funding benefits and are exposed to variability from the performance of the underlying credit card receivables through our retained interest. As at October 31, 2024, \$6 billion of notes issued by our credit card securitization vehicle were included in Deposits on our Consolidated Balance Sheets (October 31, 2023 – \$7 billion).

### Collateralized commercial paper vehicle

We established a funding vehicle that provides loans to us and finances those loans by issuing commercial paper to third-party investors. The structured entity's commercial paper carries an equivalent credit rating to RBC because we are obligated to advance funds to the entity in the event there are insufficient funds from other sources to settle maturing commercial paper. We pledge collateral to secure the loans and are exposed to the market and credit risks of the pledged securities.

We consolidate the structured entity because we have decision-making power over the relevant activities, are the sole borrower from the structure, and are exposed to a majority of the residual ownership risks through the credit support provided. As at October 31, 2024, \$18 billion of commercial paper issued by the vehicle was included in Deposits on our Consolidated Balance Sheets (October 31, 2023 – \$17 billion).

### Covered bonds

We periodically transfer mortgages to RBC Covered Bond Guarantor Limited Partnership (the Guarantor LP) to support funding activities and asset coverage requirements under our covered bonds program. The Guarantor LP was created to guarantee interest and principal payments under the covered bond program. The covered bonds guaranteed by the Guarantor LP are direct, unsecured and unconditional obligations of RBC; therefore, investors have a claim against the Bank which will continue if the covered bonds are not paid by the Bank and the mortgage assets in the Guarantor LP are insufficient to satisfy the obligations owing on the covered bonds. We act as general partner, limited partner, swap counterparty, lender and liquidity provider to the Guarantor LP, servicer for the underlying mortgages as well as the registered issuer of the covered bonds.

We consolidate the Guarantor LP as we have the decision-making power over the relevant activities through our role as general partner and are exposed to variability from the performance of the underlying mortgages. As at October 31, 2024, the total amount of mortgages transferred and outstanding was \$107 billion (October 31, 2023 – \$100 billion) and \$58 billion of covered bonds were recorded as Deposits on our Consolidated Balance Sheets (October 31, 2023 – \$50 billion).

### Structured finance

We sell taxable and tax-exempt municipal bonds into Tender Option Bond (TOB) structures, which consist of a bond that is credit enhanced by us and purchased by a TOB trust. The TOB trust finances the purchase from us by issuing floating-rate certificates to short-term investors and a residual certificate that is purchased by us. We are the remarketing agent for the floating-rate certificates and provide a liquidity facility to the short-term investors which requires us to purchase any certificates tendered but not successfully remarketed. We credit enhance the bond purchased by the TOB trust with a letter of credit under which we are required to extend funding if there are any losses on the underlying bonds. We earn interest on the residual certificate and receive market-based fees for acting as remarketing agent and providing the liquidity facility and letter of credit.

We consolidate the TOB trust when we are the holder of the residual certificate as we have decision-making power over the relevant activities, including the selection of the underlying municipal bonds and the ability to terminate the structure, and are exposed to variability from the performance of the underlying municipal bonds. As at October 31, 2024, \$5 billion of municipal bonds were included in Securities related to consolidated TOB structures (October 31, 2023 – \$5 billion) and a corresponding \$5 billion of floating-rate certificates were included in Deposits on our Consolidated Balance Sheets (October 31, 2023 – \$5 billion).

We establish structured entities to acquire loans for the purposes of issuing term collateralized loan obligation (CLO) transactions and act as collateral manager. During the warehouse phase, we provide subordinated financing and, for certain term CLO transactions, act as the arranger and placement agent, and may provide senior warehouse financing. Proceeds from the sale of the term CLO are used to repay our warehouse financing. During the term CLO phase, we continue to provide subordinated financing, which serves as the first loss tranche that absorbs losses prior to the senior tranches, and may also directly invest in the other tranches.

We consolidate these CLO structures as we have decision-making power over the relevant activities of the entity, which include the initial selection and subsequent management of the underlying debt portfolio, and when our interests, including direct investment plus collateral management fees, indicate that we are acting as a principal. As at October 31, 2024, \$194 million of Cash and due from banks and \$2,030 million of Loans related to consolidated CLO structures (October 31, 2023 – \$493 million and \$1,675 million, respectively) and \$1,143 million of Deposits representing the subordinated and senior tranches held by third parties (October 31, 2023 – \$1,706 million) were recorded on our Consolidated Balance Sheets.

## RBC managed investment funds

We are sponsors and investment managers of mutual and pooled funds, which give us the ability to direct the investment decisions of the funds. We consolidate those mutual and pooled funds in which our interests, which include direct investment in seed capital plus management or performance fees, indicate that we are acting as a principal. As at October 31, 2024, \$799 million of Trading securities held in the consolidated funds (October 31, 2023 – \$400 million) and \$377 million of Other liabilities representing the fund units held by third parties (October 31, 2023 – \$331 million) were recorded on our Consolidated Balance Sheets.

### Unconsolidated structured entities

We have interests in certain structured entities that we do not consolidate but have recorded assets and liabilities on our Consolidated Balance Sheets related to our transactions and involvement with these entities.

#### Note 8 Structured entities (continued)

The following table presents the assets and liabilities recorded on our Consolidated Balance Sheets and our maximum exposure to loss related to our interests in unconsolidated structured entities. It also presents the size of each class of unconsolidated structured entity, as measured by the total assets of the entities in which we have an interest.

						As at Oct	tob	er 31, 2024				
(Millions of Canadian dollars)		Iulti-seller onduits (1)	s	tructured finance		Non-RBC managed investment funds		Third-party curitization vehicles		Other		Total
On-balance sheet assets Securities	\$	1	\$	_	\$	2,541	Ś	_	\$	1,384	Ś	3,926
Loans Derivatives	*	236 32	*	6,688	~	_,5	*	12,788	~	1,805	~	21,517
Other assets										455		455
	\$	269	\$	6,688	\$	2,541	\$	12,788	\$	3,742	\$	26,028
On-balance sheet liabilities Deposits Derivatives	\$	- 115	\$	_ _	\$	- 3	\$	-	\$	167 4	\$	167 122
Other liabilities	\$	115	Ś	<u> </u>	Ś	3	\$		Ś	7 178	\$	296
Maximum exposure to loss (2)	\$	56,779		12,963	\$	3,487	\$		÷	6,248	<u> </u>	100,672
Total assets of unconsolidated structured entities	\$	55,639	\$	45,315	\$	459,976	\$	119,766	\$	798,228	\$	1,478,924

				As at Oc	tobe	er 31, 2023		
(Millions of Canadian dollars)	Aulti-seller onduits (1)	S	Structured finance	Non-RBC managed investment funds	se	Third-party ecuritization vehicles	Other	Total
On-balance sheet assets								
Securities	\$ 4	\$	_	\$ 2,411	\$	_	\$ 743	\$ 3,158
Loans	_		5,790	_		8,451	2,403	16,644
Derivatives	2		_	26		_	91	119
Other assets	-		_	-		_	365	365
	\$ 6	\$	5,790	\$ 2,437	\$	8,451	\$ 3,602	\$ 20,286
On-balance sheet liabilities								
Deposits	\$ _	\$	_	\$ _	\$	_	\$ 166	\$ 166
Derivatives	245		_	1		_	_	246
Other liabilities	_		_	_		_	7	7
	\$ 245	\$	_	\$ 1	\$	-	\$ 173	\$ 419
Maximum exposure to loss (2)	\$ 54,715	\$	10,580	\$ 3,068	\$	14,863	\$ 5,595	\$ 88,821
Total assets of unconsolidated structured entities	\$ 53,641	\$	31,037	\$ 440,924	\$	81,028	\$ 461,919	\$ 1,068,549

<sup>(1)</sup> Total assets of unconsolidated structured entities represent the maximum assets that may have to be purchased by the conduits under purchase commitments outstanding. Of the purchase commitments outstanding, the conduits have purchased financial assets totalling \$37 billion as at October 31, 2024 (October 31, 2023 – \$37 billion).

Below is a description of our involvement with each significant class of unconsolidated structured entity.

### Multi-seller conduits

We administer multi-seller ABCP conduit programs. Multi-seller conduits primarily purchase financial assets from clients and finance those purchases by issuing ABCP.

In certain multi-seller conduit arrangements, we do not maintain any ownership of the multi-seller conduits that we administer and have no rights to, or control of, its assets. As the administrative agent, we earn a residual fee for providing services such as coordinating funding activities, transaction structuring, documentation, execution and monitoring. The ABCP issued by each multi-seller conduit is in the conduit's own name with recourse to the financial assets owned by the multi-seller conduit, and is non-recourse to us except through our participation in liquidity and/or credit enhancement facilities.

We provide transaction-specific and program-wide liquidity facilities to the multi-seller conduits. In addition, we provide program-wide credit enhancement to the multi-seller conduits which obligate us to purchase assets or advance funds in the event the multi-seller conduit does not otherwise have funds from other sources, such as from the liquidity facilities, to settle maturing ABCP. In some cases, we or another third party may provide transaction-specific credit enhancement which can take various forms. We receive market-based fees for providing these liquidity and credit facilities.

For certain transactions, we act as counterparty to various hedging contracts to facilitate our clients' securitization of fixed rate and/or foreign currency denominated assets through the conduits. These may take the form of forward contracts, interest rate swaps or cross currency swaps. These derivatives expose us to foreign exchange and interest rate risks that are centrally managed by our foreign exchange trading and swap desks, respectively, and credit risk on the underlying assets that is mitigated by the credit enhancement described below.

<sup>(2)</sup> The maximum exposure to loss resulting from our interests in these entities consists mostly of investments, loans, fair value of derivatives, liquidity and credit enhancement facilities. The maximum exposure to loss of the multi-seller conduits is higher than the on-balance sheet assets primarily because of the notional amounts of the backstop liquidity and credit enhancement facilities. Refer to Note 23 for further details.

Each transaction is structured with transaction-specific first loss protection provided by the third-party seller. This enhancement can take various forms, including but not limited to overcollateralization, excess spread, subordinated classes of financial assets, guarantees or letters of credit. The amount of this enhancement varies but is generally designed to cover a multiple of historical losses.

An unrelated third party (expected loss investor) absorbs losses, up to a maximum contractual amount, that may occur in the future on the assets in the multi-seller conduits before the multi-seller conduits' debt holders and us. In return for assuming this multi-seller conduit first-loss position, each multi-seller conduit pays the expected loss investor a return commensurate with its risk position. The expected loss investor has substantive power to direct the majority of the activities which significantly impact the conduit's economic performance, including initial selection and approval of the asset purchase commitments and liquidity facilities, approval of renewal and amendment of these transactions and facilities, sale or transfer of assets, ongoing monitoring of asset performance, mitigation of losses, and management of the ABCP liabilities.

We do not consolidate these multi-seller conduits as we do not control the conduits as noted above.

#### Structured finance

We participate in certain municipal bond TOB structures that we do not consolidate. These structures are similar to those consolidated municipal bond TOB structures described above; however, the residual certificates are held by third parties. We provide liquidity facilities for the benefit of floating-rate certificate holders which may be drawn if certificates are tendered but not able to be remarketed. For a portion of these trusts, we also provide a letter of credit for the underlying bonds held in the trust. We do not have decision-making power over the relevant activities of the structures; therefore, we do not consolidate these structures.

We provide senior warehouse financing to unaffiliated structured entities that are established by third parties to acquire loans for the purposes of issuing a term CLO transaction. Subordinated financing is provided during the warehouse phase by either the collateral manager or third-party investors. Subordinated financing serves as the first loss tranche which absorbs losses prior to ourselves as the senior lender. We act as the arranger and placement agent for the term CLO transaction. Proceeds from the sale of the term CLO are used to repay our senior warehouse financing, at which point we have no further involvement with the transaction. We do not consolidate these CLO structures as we do not have decision-making power over the relevant activities of the entity, which include the initial selection and subsequent management of the underlying debt portfolio.

We provide senior financing to unaffiliated structured entities that are established by third parties to acquire loans. Subordinated financing is provided by either the collateral manager or third-party investors. Subordinated financing serves as the first loss tranche which absorbs losses prior to ourselves as the senior lender. These facilities tend to be longer in term than the CLO warehouse facilities and benefit from credit enhancement generally designed to cover a multiple of historical losses. We do not consolidate these structures as we do not have decision-making power over the relevant activities of the entity, which include the initial selection and subsequent management of the underlying debt portfolio.

## Non-RBC managed investment funds

We enter into fee-based equity derivative transactions with third parties including mutual funds, unit investment trusts and other investment funds. These transactions provide their investors with the desired exposure to reference funds, and we economically hedge our exposure to these derivatives by investing in those reference funds. We also act as custodian for several funds. We do not consolidate those reference funds that are managed by third parties as we do not have power to direct their investing activities.

We provide liquidity facilities to certain third-party investment funds. The funds issue unsecured variable-rate preferred shares and invest in portfolios of tax-exempt municipal bonds. Undrawn liquidity commitments expose us to the liquidity risk of the preferred shares and drawn commitments expose us to the credit risk of the underlying municipal bonds. We do not consolidate these third-party managed funds as we do not have power to direct their investing activities.

## Third-party securitization vehicles

We hold interests in securitization vehicles that provide funding to certain third parties on whose behalf the entities were created. The activities of these entities are limited to the purchase and sale of specified financial assets from the sponsor. We, as well as other financial institutions, are obligated to provide funding up to our maximum commitment level and are exposed to credit losses on the underlying assets after various credit enhancements. Enhancements can take various forms, including but not limited to overcollateralization, excess spread, subordinated classes of financial assets, guarantees or letters of credit. The amount of this enhancement varies but is generally designed to cover a multiple of historical losses. We do not consolidate these entities as we do not have decision-making power over the relevant activities, including the entities' investing and financing activities.

### Note 8 Structured entities (continued)

#### Other

Other unconsolidated structured entities include managed investment funds, arrangements to pass credit risk to third parties, credit investment products and tax credit funds.

We are sponsors and investment managers of mutual and pooled funds, which gives us the ability to direct the investment decisions of the funds. We do not consolidate those mutual and pooled funds if we exercise our decision-making power as an agent on behalf of other unit holders.

We use structured entities to generally transform credit derivatives into cash instruments, to distribute credit risk and to create customized credit products to meet investors' specific requirements. We enter into derivative contracts, including credit derivatives, to purchase protection from these entities (credit protection) and convert various risk factors such as yield, currency or credit risk of underlying assets to meet the needs of the investors. We act as sole arranger and swap provider for certain entities and, in some cases, fulfill other administrative functions for the entities. We do not consolidate these credit investment product entities as we do not have decision-making power over the relevant activities, which include selection of the collateral and reference portfolio, and are not exposed to a majority of the benefits or risks of the entities.

We created certain funds to pass through tax credits received from underlying low-income housing, historic rehabilitation real estate projects to third parties, new market tax credits or renewable energy tax credits to third parties (tax credit funds). We are sponsors of the tax credit funds as a result of our responsibility to manage the funds, arrange the financing, and perform the administrative duties of these tax credit funds. We do not consolidate the tax credit funds as the third-party investors in these funds have the decision-making power to select the underlying investments and are exposed to the majority of the residual ownership and tax risks of the funds.

We also purchase passive interests in renewable energy tax credit entities created and controlled by third parties. We do not consolidate these third-party funds as we do not have decision-making power over the relevant activities and our investments are managed as part of larger portfolios which are held for trading purposes.

#### Other interests in unconsolidated structured entities

In the normal course of business, we buy and sell passive interests in certain third-party structured entities, including mutual funds, exchange traded funds, and government-sponsored ABS vehicles. Our investments in these entities are managed as part of larger portfolios which are held for trading, liquidity or hedging purposes. We did not create or sponsor these entities and do not have any decision-making power over their ongoing activities. Our maximum exposure to loss is limited to our on-balance sheet investments in these entities, which are not included in the table above. As at October 31, 2024 and 2023, our investments in these entities were included in Trading and Investment securities on our Consolidated Balance Sheets. Refer to Note 3 and Note 4 for further details on our Trading and Investment securities.

## Sponsored entities

We are a sponsor of certain structured entities in which we have interests but do not consolidate. In determining whether we are a sponsor of a structured entity, we consider both qualitative and quantitative factors, including the purpose and nature of the entity, our initial and continuing involvement and whether we hold subordinated interests in the entity. We are considered to be the sponsor of certain credit investment products, tax credit entities, RBC managed mutual funds and a commercial mortgage securitization vehicle. During the year ended October 31, 2024, we did not transfer any commercial mortgages (October 31, 2023 – \$nil) to a sponsored securitization vehicle in which we did not have any interests as at the end of the reporting period.

## Financial support provided to structured entities

During the years ended October 31, 2024 and 2023, we have not provided any financial or non-financial support to any consolidated or unconsolidated structured entities when we were not contractually obligated to do so. Furthermore, we have no intention to provide such support in the future.

## Note 9 Derivative financial instruments and hedging activities

Derivative instruments are categorized as either financial or non-financial derivatives. Financial derivatives are financial contracts whose value is derived from an underlying interest rate, foreign exchange rate, credit risk, and equity or equity index. Non-financial derivatives are contracts whose value is derived from a precious metal, commodity instrument or index. The notional amount of derivatives represents the contract amount used as a reference point to calculate payments. Notional amounts are generally not exchanged by counterparties, and do not reflect our EAD.

## Financial derivatives

## Forwards and futures

Forward contracts are non-standardized agreements that are transacted between counterparties in the OTC market, whereas futures are standardized contracts with respect to amounts and settlement dates, and are traded on regular futures exchanges. Examples of forwards and futures are described below.

Interest rate forwards (forward rate agreements) and futures are contractual obligations to buy or sell an interest-rate sensitive financial instrument on a predetermined future date at a specified price.

Foreign exchange forwards and futures are contractual obligations to exchange one currency for another at a specified price for settlement at a predetermined future date.

Equity forwards and futures are contractual obligations to buy or sell at a fixed value (the specified price) of an equity index, a basket of stocks or a single stock at a predetermined future date.

#### **Swaps**

Swaps are OTC contracts in which two counterparties exchange a series of cash flows based on agreed upon rates applied to a notional amount. Examples of swap agreements are described below.

Interest rate swaps are agreements where two counterparties exchange a series of payments based on different interest rates applied to a notional amount in a single currency. Certain interest rate swaps are transacted and settled through clearing houses which act as central counterparties. Cross currency swaps involve the exchange of fixed payments in one currency for the receipt of fixed payments in another currency. Cross currency interest rate swaps involve the exchange of both interest and notional amounts in two different currencies.

Equity swaps are contracts in which one counterparty agrees to pay or receive from the other cash flows based on changes in the value of an equity index, a basket of stocks or a single stock.

#### **Options**

Options are contractual agreements under which the seller (writer) grants the purchaser the right, but not the obligation, either to buy (call option) or sell (put option) a security, exchange rate, interest rate, or other financial instrument or commodity at a specified price, at or by a predetermined future date. The seller (writer) of an option can also settle the contract by paying the cash settlement value of the purchaser's right. The seller (writer) receives a premium from the purchaser for this right. The various option agreements that we enter into include but are not limited to interest rate options, foreign currency options, equity options and index options.

### Credit derivatives

Credit derivatives are OTC contracts that transfer credit risk related to an underlying financial instrument (referenced asset) from one counterparty to another. Certain credit default swaps are transacted and settled through clearing houses which act as central counterparties. Credit derivatives include credit default swaps, credit default baskets and total return swaps.

Credit default swaps provide protection against the decline in the value of the referenced asset as a result of specified credit events such as default or bankruptcy. They are similar in structure to an option, whereby the purchaser pays a premium to the seller of the credit default swap in return for payment contingent on a credit event affecting the referenced asset.

Credit default baskets are similar to credit default swaps except that the underlying referenced financial instrument is a group of assets instead of a single asset.

Total return swaps are contracts where one counterparty agrees to pay or receive from the other cash amounts based on changes in the value of a referenced asset or group of assets, including any returns such as interest earned on these assets, in exchange for amounts that are based on prevailing market funding rates.

## Other derivative products

Other derivative products include stable value derivatives.

## Non-financial derivatives

Other contracts also include non-financial derivative products such as precious metal and commodity derivative contracts in both the OTC and exchange markets.

## Derivatives issued for trading purposes

Most of our derivative transactions relate to client-driven sales and trading activities, and associated market risk hedging. Sales activities include the structuring and marketing of derivative products to clients, enabling them to modify or reduce risks. Trading involves market-making, positioning and arbitrage activities. Market-making involves quoting bid and offer prices to other market participants with the intention of generating revenue based on spread and volume. Positioning involves the active management of derivative transactions with the expectation of profiting from favourable movements in prices, rates, or indices. Arbitrage activities involve identifying and profiting from price differentials between markets and product types.

## Derivatives issued for other-than-trading purposes

We also use derivatives for purposes other than trading, primarily for hedging, in conjunction with the management of interest rate, credit, equity and foreign exchange risk related to our funding, lending, investment activities and asset/liability management.

Interest rate swaps are used to manage our exposure to interest rate risk by modifying the repricing or maturity characteristics of existing and/or forecasted assets and liabilities, including funding and investment activities. Purchased options are used to hedge redeemable deposits and other options embedded in consumer products. We manage our exposure to foreign currency risk with cross currency swaps and foreign exchange forward contracts. We predominantly use credit derivatives to manage our credit exposures. We mitigate industry sector concentrations and single-name exposures related to our credit portfolio by purchasing credit derivatives to transfer credit risk to third parties.

Certain derivatives and cash instruments are specifically designated and qualify for hedge accounting. We also enter into derivative transactions to economically hedge certain exposures that do not otherwise qualify for hedge accounting, or where hedge accounting is not considered economically feasible to implement.

#### Note 9 Derivative financial instruments and hedging activities (continued)

## Notional amount of derivatives by term to maturity (absolute amounts) (1)

					As at Octob	er:	31, 2024		
			Term to r	nal	turity				
(Millions of Canadian dollars)		Within 1 year	1 through 5 years		Over 5 years		Total	Trading	Other than Trading
Over-the-counter contracts			·		<u> </u>				
Interest rate contracts									
Forward rate agreements	\$	1,097,367	\$ 672,436	\$	7,017	\$	1,776,820	\$ 1,776,820	\$ _
Swaps	·	6,181,369	8,714,891	Ċ	5,597,447		20,493,707	19,291,405	1,202,302
Options purchased		206,649	407,730		155,843		770,222	770,181	41
Options written		217,379	384,448		179,408		781,235	781,113	122
Foreign exchange contracts		ŕ	ŕ		,		,	,	
Forward contracts		2,939,019	136,442		7,465		3,082,926	2,966,914	116,012
Cross currency swaps		23,204	108,912		75,843		207,959	199,481	8,478
Cross currency interest rate swaps		1,298,173	2,544,878		1,380,858		5,223,909	5,168,677	55,232
Options purchased		475,980	75,804		2,015		553,799	553,799	_
Options written		488,878	66,828		983		556,689	556,689	_
Credit derivatives (2)		4,055	135,505		118,732		258,292	257,333	959
Other contracts (3)		389,424	149,475		10,122		549,021	538,604	10,417
Exchange-traded contracts									
Interest rate contracts									
Futures – long positions		93,985	45,015		56		139,056	139,056	_
Futures – short positions		114,425	64,759		301		179,485	179,244	241
Options purchased		7,075	991		_		8,066	8,066	_
Options written		2,262	14		_		2,276	2,276	_
Foreign exchange contracts									
Futures – long positions		1	_		_		1	1	_
Other contracts		367,023	68,132		2,574		437,729	437,729	_
	\$	13,906,268	\$ 13,576,260	\$	7,538,664	\$	35,021,192	\$ 33,627,388	\$ 1,393,804

			As at Octobe	er 31, 2023		
		Term to mo	ıturity			
(1)	Within	1 through	Over	T-1-1	Tandian	Other than
(Millions of Canadian dollars)	1 year	5 years	5 years	Total	Trading	Trading
Over-the-counter contracts						
Interest rate contracts						
Forward rate agreements	\$ 1,008,978 \$	691,397	358	\$ 1,700,733	\$ 1,700,733 \$	
Swaps	4,220,675	6,651,849	4,418,165	15,290,689	14,169,938	1,120,751
Options purchased	162,845	420,341	166,275	749,461	749,257	204
Options written	144,138	412,239	179,532	735,909	735,562	347
Foreign exchange contracts						
Forward contracts	2,336,565	106,069	4,082	2,446,716	2,363,796	82,920
Cross currency swaps	30,098	88,625	74,538	193,261	189,100	4,161
Cross currency interest rate swaps	972,658	2,055,058	1,141,295	4,169,011	4,107,125	61,886
Options purchased	244,721	73,407	2,663	320,791	320,791	_
Options written	254,534	71,039	2,305	327,878	327,878	_
Credit derivatives (2)	11,709	108,637	114,463	234,809	234,066	743
Other contracts (3)	261,528	140,225	13,088	414,841	401,373	13,468
Exchange-traded contracts						
Interest rate contracts						
Futures – long positions	103,195	24,283	1	127,479	126,879	600
Futures – short positions	99,792	54,817	1	154,610	154,445	165
Options purchased	12,801	3	_	12,804	12,804	_
Options written	11,206	1,468	_	12,674	12,674	_
Foreign exchange contracts						
Futures – long positions	124	_	_	124	124	_
Other contracts	571,970	154,677	4,586	731,233	731,233	-
	\$ 10,447,537 \$	11,054,134	6,121,352	\$ 27,623,023	\$ 26,337,778 \$	1,285,245

The derivative notional amounts are determined using the standardized approach for measuring counterparty credit risk (SA-CCR) in accordance with the Capital (1) Adequacy Requirements (CAR).

Credit derivatives with a notional value of \$1 billion (October 31, 2023 – \$1 billion) are economic hedges. Trading credit derivatives comprise protection purchased of \$135 billion (October 31, 2023 – \$119 billion) and protection sold of \$122 billion (October 31, 2023 – \$119 billion).

Other contracts exclude loan underwriting commitments of \$3 billion (October 31, 2023 – \$2 billion), which are not classified as derivatives under CAR guidelines.

		AS	at	
	October	31, 2024	October	31, 2023
(Millions of Canadian dollars)	Positive	Negative	Positive	Negative
Held or issued for trading purposes				
Interest rate contracts				
Forward rate agreements	\$ 147	\$ 68	\$ 76	\$ 24
Swaps	21,155	16,482	26,320	22,965
Options purchased	5,556	_	11,230	_
Options written	_	6,049	_	11,776
	26,858	22,599	37,626	34,765
Foreign exchange contracts				
Forward contracts	26,339	23,758	22,972	22,655
Cross currency swaps	7,316	4,912	7,370	5,815
Cross currency interest rate swaps	60,105	59,733	55,268	46,550
Options purchased	2,407	_	2,623	_
Options written	_	1,800	_	1,790
	96,167	90,203	88,233	76,810
Credit derivatives	270	216	175	176
Other contracts	26,325	46,420	16,319	20,865
	149,620	159,438	142,353	132,616
Held or issued for other-than-trading purposes				
Interest rate contracts				
Swaps	1,215	3,100	1,907	7,436
	1,215	3,100	1,907	7,436
Foreign exchange contracts				
Forward contracts	1,235	682	860	509
Cross currency swaps	207	46	_	_
Cross currency interest rate swaps	874	2,287	555	4,484
	2,316	3,015	1,415	4,993
Credit derivatives	3	2	49	_
Other contracts	79	77	71	109
	3,613	6,194	3,442	12,538
Total gross fair values before:	153,233	165,632	145,795	145,154
Valuation adjustments determined on a pooled basis	(1,053)		(1,801)	(981
Impact of netting agreements that qualify for balance sheet offset	(1,568)		(1,544)	
	\$ 150,612	\$ 163,763	\$ 142,450	\$ 142,629

<sup>1)</sup> The fair value reflects the impact of characterizing the daily variation margin as settlement of the related derivative fair values as permitted by certain central counterparties.

## Fair value of derivative instruments by term to maturity (1)

				As	at			
		Octobe	r 31, 2024			Octobei	r 31, 2023	
	Less than	1 through	Over		Less than	1 through	Over	
(Millions of Canadian dollars)	1 year	5 years	5 years	Total	1 year	5 years	5 years	Total
Derivative assets	\$ 54,660	48,765	47,187	\$ 150,612	\$ 46,148	52,165	44,137	\$ 142,450
Derivative liabilities	67,886	51,170	44,707	163,763	47,707	51,690	43,232	142,629

<sup>(1)</sup> The fair value reflects the impact of characterizing the daily variation margin as settlement of the related derivative fair values as permitted by certain central counterparties.

## Interest rate benchmark reform

We use interest rate contracts in fair value hedges and cash flow hedges to manage our exposure to interest rate risk from our existing and/or forecast assets and liabilities. We also use foreign denominated deposit liabilities in net investment hedges to manage the foreign exchange risk arising from our investments in foreign operations. The hedging instruments designated to manage these risks referenced IBORs in multiple jurisdictions and were affected by the Reform as the markets transitioned to ABRs as discussed in Note 2.

The notional amounts of our interest rate contracts and total return swaps which referenced IBORs and were affected by the Reform are no longer material to our financial statements (October 31, 2023 – \$115 billion and \$1 billion, respectively).

## Note 9 Derivative financial instruments and hedging activities (continued)

#### Derivative-related credit risk

Credit risk from derivative transactions is generated by the potential for the counterparty to default on its contractual obligations when one or more transactions have a positive market value to us. Therefore, derivative-related credit risk is represented by the positive fair value of the instrument and is normally a small fraction of the contract's notional amount.

We subject our derivative transactions to the same credit approval, limit and monitoring standards that we use for managing other transactions that create credit exposure. This includes evaluating the creditworthiness of counterparties, and managing the size, diversification and maturity structure of the portfolio. Credit utilization for all products is compared with established limits on a continual basis and is subject to a standard exception reporting process. We use a single internal rating system for all credit risk exposure, as outlined in the internal ratings maps in the Credit risk section of Management's Discussion and Analysis.

Offsetting is a technique that can reduce credit exposure from derivatives and is generally facilitated through the use of master netting agreements and achieved when specific criteria are met in accordance with our accounting policy in Note 2. A master netting agreement provides for a single net settlement of all financial instruments covered by the agreement in the event of default. However, credit risk is reduced only to the extent that our financial obligations to the same counterparty can be set off against obligations of the counterparty to us. We maximize the use of master netting agreements to reduce derivative-related credit exposure. Our overall exposure to credit risk that is reduced through master netting agreements may change substantially following the reporting date as the exposure is affected by each transaction subject to the agreement as well as by changes in underlying market rates. Measurement of our credit exposure arising out of derivative transactions is reduced to reflect the effects of netting in cases where the enforceability of that netting is supported by appropriate legal analysis as documented in our trading credit risk policies.

The use of collateral is another significant credit mitigation technique for managing derivative-related counterparty credit risk. Mark-to-market provisions in our agreements with some counterparties, typically in the form of a Credit Support Annex, provide us with the right to request that the counterparty collateralize the current market value of its derivatives positions when the value exceeds a specified threshold amount.

Replacement cost and credit equivalent amounts are determined using SA-CCR in accordance with the OSFI CAR guidelines. The replacement cost represents the total fair value of all outstanding contracts in a gain position after factoring in the master netting agreements and applicable margins. The credit equivalent amount is defined as the replacement cost plus an additional amount for potential future credit exposure, scaled by a regulatory factor. The risk-weighted equivalent is determined by applying appropriate risk-weights to the credit equivalent amount, including those risk weights reflective of model approval under the internal ratings based approach.

### Derivative-related credit risk (1)

		As at													
			0c	tober 31, 202	4				Octol	ber 31, 2023					
(Millions of Canadian dollars)	Re	placement cost		Credit equivalent amount		-weighted ent (2), (3)	Replacement cost		<b>hted</b> Replacement equival		Credit quivalent amount		weighted valent (2)		
Over-the-counter contracts															
Interest rate contracts															
Forward rate agreements	\$	8	\$	231	\$	43	\$	58	\$	94	\$	6			
Swaps		6,926		17,760		2,747		9,613		24,448		3,721			
Options purchased		317		859		135		610		1,547		353			
Options written		49		398		104		123		564		152			
Foreign exchange contracts															
Forward contracts		8,077		33,908		6,693		5,655		27,862		5,611			
Swaps		3,915		21,709		2,703		4,261		21,483		4,274			
Options purchased		877		2,315		587		841		1,742		383			
Options written		117		476		98		95		441		109			
Credit derivatives		608		2,336		191		356		1,834		219			
Other contracts		1,773		20,981		4,756		1,933		16,002		4,929			
Exchange-traded contracts		10,084		19,023		380		7,186		16,191		324			
	\$	32,751	\$	119,996	\$	18,437	\$	30,731	\$	112,208	\$	20,081			

<sup>(1)</sup> The amounts presented are net of master netting agreements in accordance with CAR guidelines.

<sup>(2)</sup> The risk-weighted balances are calculated in accordance with CAR guidelines and exclude CVA of \$18 billion (October 31, 2023 – \$13 billion).

<sup>(3)</sup> The amounts presented reflect our adoption of the revised market risk and CVA frameworks that came into effect on November 1, 2023.

## Replacement cost of derivative instruments by risk rating and by counterparty type

		As at October 31, 2024											
		Risk	ating (1)			Cou	ınterparty type	(2)					
							OECD						
(Millions of Canadian dollars)	AAA, AA	Α	BBB	BB or lower	Total	Banks	governments	Other	Total				
Gross positive fair values Impact of master netting agreements and	\$ 31,561	\$ 77,933	\$ 25,206	\$ 18,533	\$ 153,233	\$ 75,119	\$ 24,655	\$ 53,459	\$ 153,233				
applicable margins	18,644	67,995	19,046	14,797	120,482	73,763	24,289	22,430	120,482				
Replacement cost (after netting agreements)	\$ 12,917	\$ 9,938	\$ 6,160	\$ 3,736	\$ 32,751	\$ 1,356	\$ 366	\$ 31,029	\$ 32,751				

		As at October 31, 2023									
		Risk r	ating (1)		_	Cou	unterparty type (	2)			
(Millions of Canadian dollars)	AAA, AA	А	ВВВ	BB or lower	Total	Banks	OECD governments	Other	Total		
Gross positive fair values Impact of master netting agreements and	\$ 36,224	70,010	\$ 28,956	\$ 10,605	\$ 145,795	\$ 69,841	\$ 20,268	\$ 55,686	\$ 145,795		
applicable margins	24,025	60,556	22,765	7,718	115,064	68,151	20,237	26,676	115,064		
Replacement cost (after netting agreements)	\$ 12,199	9,454	\$ 6,191	\$ 2,887	\$ 30,731	\$ 1,690	\$ 31	\$ 29,010	\$ 30,731		

<sup>(1)</sup> Our internal risk ratings of AAA, AA, A and BBB represent investment grade ratings and ratings of BB or lower represent non-investment grade ratings, as outlined in the internal ratings maps in the Credit risk section of Management's Discussion and Analysis.

## Derivatives in hedging relationships

We apply hedge accounting to minimize volatility in earnings and capital caused by changes in interest rates or foreign exchange rates. Interest rate and currency fluctuations will either cause assets and liabilities to appreciate or depreciate in market value or cause variability in forecasted cash flows. When a hedging relationship is effective, gains, losses, revenue and expenses of the hedging instrument will offset the gains, losses, revenue and expenses of the hedged item. Refer to Note 2 for our policies on hedge accounting including presentation of hedge effectiveness and ineffectiveness amounts.

We assess and measure the effectiveness of a hedging relationship based on the change in the fair value or cash flows of the derivative hedging instrument relative to the change in the fair value or cash flows of the hedged item attributable to the hedged risk. When cash instruments are designated as hedges of foreign exchange risks, only changes in their value due to foreign exchange risk are included in the assessment and measurement of hedge effectiveness.

Potential sources of ineffectiveness can be attributed to differences between hedging instruments and hedged items:

- Mismatches in the terms of hedged items and hedging instruments, for example the frequency and timing of when interest rates are reset and frequency of payment.
- Difference in the discounting factors between the hedged item and the hedging instrument, taking into consideration the different reset frequency of the hedged item and hedging instrument.
- Hedging derivatives with a non-zero fair value at inception date of the hedging relationship, resulting in mismatch in terms with the hedged item.

Below is a description of our risk management strategy for each risk exposure that we decide to hedge:

#### Interest rate risk

We use interest rate contracts to manage our exposure to interest rate risk by modifying the repricing characteristics of existing and/or forecasted assets and liabilities, including funding and investment activities. The swaps are designated in either a fair value hedge or a cash flow hedge. Certain swaps were affected by the Reform as the market transitioned from referencing IBORs to ABRs.

For fair value hedges, we use interest rate contracts to manage the fair value movements of our fixed rate instruments due to changes in benchmark interest. The interest rate swaps are entered into on a one-to-one basis to manage the benchmark interest rate risk, and its terms are critically matched to the specified fixed rate instruments.

We also use interest rate swaps in fair value hedges to manage interest rate risk from residential mortgage assets and funding liabilities. Our exposure from this portfolio changes with the origination of new loans, repayments of existing loans and sale of securitized mortgages. Accordingly, we have adopted dynamic hedging for that portfolio, in which the hedge relationship is rebalanced on a more frequent basis, such as on a bi-weekly or on a monthly basis.

For cash flow hedges, we use interest rate contracts to manage the exposure to cash flow variability of our variable rate instruments as a result of changes in benchmark interest rates. The variable rate instruments and forecast transactions that referenced certain IBORs were affected by the Reform. Whilst some of the interest rate swaps are entered into on a one-to-one basis to manage a specific exposure, other interest rate swaps may be entered into for managing interest rate risks of a portfolio of assets and liabilities.

## Foreign exchange risk

We manage our exposure to foreign currency risk with cross currency swaps in a cash flow hedge, and foreign exchange forward contracts in a net investment hedge. Certain cash instruments may also be designated in a net investment hedge, where applicable.

For cash flow hedges, we use cross currency swaps and forward contracts to manage the cash flow variability arising from fluctuations in foreign exchange rates on our issued foreign denominated fixed rate liabilities and highly probable forecasted transactions. The maturity profile and repayment terms of these swaps are matched to those of our foreign denominated exposures to limit our cash flow volatility from changes in foreign exchange rates.

<sup>(2)</sup> Counterparty type is defined in accordance with CAR guidelines.

## Note 9 Derivative financial instruments and hedging activities (continued)

For net investment hedges, we use a combination of foreign exchange forwards and cash instruments, such as foreign denominated deposit liabilities, to manage our foreign exchange risk arising from our investments in foreign operations. Our most significant exposures include USD, GBP and Euro. When hedging net investments in foreign operations using foreign exchange forwards, only the undiscounted spot element of the foreign exchange forward is designated as the hedging instrument. Accordingly, changes in the fair value of the hedging instrument as a result of changes in forward rates and the effects of discounting are not included in the hedging effectiveness assessment. Foreign operations are only hedged to the extent of the principal of the foreign denominated deposit liabilities or notional amount of the derivative; we generally do not expect to incur significant ineffectiveness on hedges of net investments in foreign operations.

## Equity price risk

We use total return swaps in cash flow hedges to mitigate the cash flow variability of the expected payment associated with our cash settled share-based compensation plan for certain key employees by exchanging interest payments for indexed RBC share price change and dividend returns.

### Credit risk

We predominantly use credit derivatives to economically hedge our credit exposures. We mitigate industry sector concentrations and single-name exposures related to our credit portfolio by purchasing credit derivatives to transfer credit risk to third parties.

## Derivative instruments designated in hedging relationships (1)

The following table presents the fair values of the derivative instruments and the principal amounts of the non-derivative liabilities, categorized by their hedging relationships, as well as derivatives that are not designated in hedging relationships.

								As	at							
				Oc	tober	31, 2024						Octo	ober :	31, 2023		
	Desi			hedgin ng relati		ruments ps	N	ot designated	De			nedging g relatio			N	ot designated
(Millions of Canadian dollars)	Fair v	alue	Cas	h flow	inv	Net estment		in a hedging relationship	Fai	r value	Ca	sh flow	inve	Net estment	.,	in a hedging relationship
Assets																
Derivative instruments	\$	18	\$	298	\$	4	\$	150,292	\$	156	\$	19	\$	13	\$	142,262
Liabilities																
Derivative instruments		59		27		433		163,244		50		100		409		142,070
Non-derivative instruments		-		_	3	7,833		n.a.		_		_	2	5,427		n.a.

The fair value reflects the impact of characterizing the daily variation margin as settlement of the related derivative fair values as permitted by certain central (1) counterparties

The following tables provide the remaining term to maturity analysis of the notional amounts and the weighted average rates of the hedging instruments and their carrying amounts by types of hedging relationships:

## Fair value hedges

		As at October 31, 2024									
		Notiona	al amounts		C	arrying	g amount (1)				
(Millions of Canadian dollars, except average rates)	Within 1 year	1 through 5 years	Over 5 years	Total	A	ssets	Lial	oilities			
Interest rate risk											
Interest rate contracts											
Hedge of fixed rate assets	\$ 11,396	\$ 68,563	\$ 38,343	\$ 118,302	\$	10	\$	55			
Hedge of fixed rate liabilities	32,496	71,668	17,267	121,431		8		4			
Weighted average fixed interest rate											
Hedge of fixed rate assets	3.8%	3.8%	3.5%	3.7%							
Hedge of fixed rate liabilities	2.9%	2.8%	3.1%	2.8%							

	As at October 31, 2023											
			Notion	al amoun	ts				Carrying	amou	nt (1)	
(Millions of Canadian dollars, except average rates)	Witi 1 ye	nin ear	1 through 5 years	5	Over years		Total		Assets	Lia	bilities	
Interest rate risk												
Interest rate contracts												
Hedge of fixed rate assets	\$ 8,8	53	\$ 62,948	\$ 2	1,702	\$	93,503	\$	156	\$	_	
Hedge of fixed rate liabilities	23,5	92	75,130	10	0,236		108,958		_		50	
Weighted average fixed interest rate												
Hedge of fixed rate assets	4.3	%	3.6%		3.2%		3.6%					
Hedge of fixed rate liabilities	2.1	%	2.4%		2.6%		2.3%					

The carrying amount reflects the impact of characterizing the daily variation margin as settlement of the related derivative fair values as permitted by certain central counterparties.

not applicable

## Cash flow hedges

	As at October 31, 2024										
			Notional	amo	unts				Carryin	g amoi	unt (1)
5- n	Within		1 through		Over						
(Millions of Canadian dollars, except average rates)	1 year		5 years		5 years		Total	A	ssets	Li	abilities
Interest rate risk											
Interest rate contracts											
Hedge of variable rate assets	\$ 91,698	\$	133,684	\$	6,831	\$	232,213	\$	_	\$	_
Hedge of variable rate liabilities	46,390		101,339		33,845		181,574		_		_
Weighted average fixed interest rate											
Hedge of variable rate assets	4.1%		3.5%		3.5%		3.7%				
Hedge of variable rate liabilities	4.1%		3.6%		2.9%		3.6%				
Foreign exchange risk											
Cross currency swaps											
Hedge of fixed rate assets	\$ -	\$	936	\$	_	\$	936	\$	9	\$	21
Hedge of fixed rate liabilities	_		4,163		_		4,163		198		6
Weighted average CAD-EUR exchange rate	n.a.		1.43		n.a.		1.43				
Weighted average CAD-USD exchange rate	n.a.		1.34		n.a.		1.34				

				As at Octob	er 31,	2023				
		Notional	amo	unts			(	Carryin	g amo	unt (1)
(Millions of Canadian dollars, except average rates)	Within 1 year	1 through 5 years		Over 5 years		Total	А	ssets	L	iabilities
Interest rate risk Interest rate contracts										
Hedge of variable rate assets Hedge of variable rate liabilities Weighted average fixed interest rate	\$ 63,927 16,696	\$ 68,470 63,527	\$	1,097 32,802	\$	133,494 113,025	\$	_	\$	-
Hedge of variable rate assets Hedge of variable rate liabilities	4.5% 4.9%	3.4% 3.8%		3.7% 2.8%		4.0% 3.7%				
Foreign exchange risk Cross currency swaps										
Hedge of fixed rate assets Weighted average CAD-EUR exchange rate Weighted average CAD-USD exchange rate	\$ 63 1.48 n.a.	\$ 916 1.44 1.34	\$	n.a. n.a.	\$	979 1.45 1.34	\$	19	\$	14

<sup>(1)</sup> The carrying amount reflects the impact of characterizing the daily variation margin as settlement of the related derivative fair values as permitted by certain central counterparties.
n.a. not applicable

## Net investment hedges

			Α	s at Octobe	er 31,	2024					
		Notional	/Princ	cipal			Carrying amount				
	Within	1 through		Over							
(Millions of Canadian dollars, except average rates)	1 year	5 years		5 years		Total	As	sets	L	iabilities	
Foreign exchange risk											
Foreign currency liabilities	\$ 4,540	\$ 27,649	\$	6,505	\$	38,694		n.a.	\$	37,833	
Weighted average CAD-USD exchange rate	1.33	1.34		1.34		1.34					
Weighted average CAD-EUR exchange rate	n.a.	n.a.		n.a.		n.a.					
Weighted average CAD-GBP exchange rate	1.71	1.76		n.a.		1.73					
Forward contracts	\$ 19,926	\$ _	\$	_	\$	19,926	\$	4	\$	433	
Weighted average CAD-USD exchange rate	1.36	n.a.		n.a.		1.36					
Weighted average CAD-EUR exchange rate	1.50	n.a.		n.a.		1.50					
Weighted average CAD-GBP exchange rate	1.79	n.a.		n.a.		1.79					

			P	s at Octob	er 31, :	2023				
		Notional,	/Princ	ipal				Carryi	ng ar	mount
(Millions of Canadian dollars, except average rates)	Within 1 year	1 through 5 years		Over 5 years		Total	A	Assets		Liabilities
Foreign exchange risk	. , ca.	- , ca.s		- , 50.5		. 0101				
Foreign currency liabilities	\$ 6,061	\$ 14,653	\$	6,413	\$	27,127		n.a.	\$	25,427
Weighted average CAD-USD exchange rate	1.28	1.29		1.33		1.30				
Weighted average CAD-EUR exchange rate	n.a.	n.a.		n.a.		n.a.				
Weighted average CAD-GBP exchange rate	n.a.	1.71		n.a.		1.71				
Forward contracts	\$ 18,920	\$ _	\$	_	\$	18,920	\$	13	\$	409
Weighted average CAD-USD exchange rate	1.36	n.a.		n.a.		1.36				
Weighted average CAD-EUR exchange rate	1.45	n.a.		n.a.		1.45				
Weighted average CAD-GBP exchange rate	1.68	n.a.		n.a.		1.68				

n.a. not applicable

# Note 9 Derivative financial instruments and hedging activities (continued)

The following tables present the details of the hedged items categorized by their hedging relationships:

## Fair value hedges – Assets and liabilities designated as hedged items

	9			
		As at and for the	e year ended October 31, 2024	
	А	accumulated amount of fair		
		value adjustments on the		
		edged item included in the		
	Carrying amount	carrying amount		
				Changes in fair values used for calculating hedge
(Millions of Canadian dollars)	Assets Liabilities	Assets Liabilities	Consolidated Balance Sheet items:	ineffectiveness
Interest rate risk				
Fixed rate assets (1)			Securities - Investment, net of	
			applicable allowance; Loans – Retail;	
	\$ 114,354 \$ -	\$ (666) \$ -	Loans – Wholesale	\$ 2,702
Fixed rate liabilities (1)	,	, ,	Deposits – Personal;	,
( )			Deposits – Business and government;	
			Subordinated debentures;	
	- 118,116	- (2,312)	Deposits – Bank	(3,963)
		As at and for th	e year ended October 31, 2023	
		Accumulated amount of fair		•

	Carrying amount	Accumulated amount of fair value adjustments on the hedged item included in the carrying amount		
(Millions of Canadian dollars)	Assets Liabilitie	s Assets Liabilities	Consolidated Balance Sheet items:	Changes in fair values used for calculating hedge ineffectiveness
Interest rate risk Fixed rate assets (1)			Securities – Investment, net of applicable allowance; Loans – Retail;	
Fixed rate liabilities (1)	\$ 86,734 \$ -	- \$ (3,911) \$ -	Loans - Wholesale Deposits - Business and government; Subordinated debentures;	\$ (1,445)
	- 102,535	- (6,340)	Deposits – Bank	276

<sup>(1)</sup> As at October 31, 2024, the accumulated amount of fair value hedge adjustments remaining on our Consolidated Balance Sheets for hedged items that have ceased to be adjusted for hedging gains and losses is a loss of \$238 million for fixed rate assets and a gain of \$118 million for fixed rate liabilities (October 31, 2023 – loss of \$539 million and gain of \$259 million, respectively).

## Cash flow and net investment hedges – Assets and liabilities designated as hedged items

	As at and for the year ende	ed October 31, 2024		
		Changes in fair	Cash flow hed currency transle	
		calculating hedge	Continuing	Discontinued
(Millions of Canadian dollars)	Consolidated Balance Sheet items:	ineffectiveness	hedges	hedges
Cash flow hedges				
Interest rate risk				
Variable rate assets	Securities – Investment, net of			
	applicable allowance; Loans – Retail;			
	Loans – Wholesale;	\$ (4,415)	\$ 2,645	\$ (2,216)
	Interest bearing deposits with banks;			
	Assets purchased under reverse			
	repurchase agreements and securities borrowed			
Variable rate liabilities	Deposits – Business and government;	4,437	(1,801)	4,557
	Deposits – Personal;			
	Obligations related to assets sold under			
	repurchase agreements and securities loaned			
Foreign exchange risk				
Fixed rate assets	Securities – Investment, net of			
	applicable allowance	7	13	-
Fixed rate liabilities	Deposits – Business and government	(106)	(52)	-
Net investment hedges				
Foreign exchange risk				
Foreign subsidiaries	n.a.	710	(8,005)	(382)

_	As at and for the year ende	d October 31, 2023		
		Changes in fair values used for	Cash flow hed currency transla	
(Millions of Canadian dollars)	Consolidated Balance Sheet items:	calculating hedge ineffectiveness	Continuing hedges	Discontinued hedges
Cash flow hedges Interest rate risk				
Variable rate assets	Securities – Investment, net of applicable allowance; Loans – Retail; Interest bearing deposits with banks; Assets purchased under reverse repurchase agreements and securities borrowed	\$ 2,248	\$ (2,115)	\$ (3,126)
Variable rate liabilities	Deposits – Business and government; Deposits – Personal; Obligations related to assets sold under repurchase agreements and securities loaned	(2,558)	3,535	5,607
Foreign exchange risk	.,			
Fixed rate assets	Securities – Investment, net of applicable allowance	50	-	_
<b>Net investment hedges</b> Foreign exchange risk				
Foreign subsidiaries	n.a.	1,513	(7,297)	(382)

n.a. not applicable

# Effectiveness of designated hedging relationships

	For the year ended October 31, 2024											
(Millions of Canadian dollars)	Change in fair value of hedging instrument	Hedge ineffectiveness recognized in income (1)	Changes in the value of the hedging instrument recognized in OCI	Amount reclassified from hedge reserves to income								
Fair value hedges												
Interest rate risk												
Interest rate contracts – fixed rate assets	\$ (2,761)	\$ (59)	n.a.	n.a.								
Interest rate contracts – fixed rate liabilities	3,961	(2)	n.a.	n.a.								
Cash flow hedges		• •										
Interest rate risk												
Interest rate contracts – variable rate assets	4,416	15	\$ 2,559	\$ (3,195)								
Interest rate contracts – variable rate liabilities	(4,325)	(19)	(2,600)	3,872								
Foreign exchange risk												
Cross currency swap – fixed rate assets	(6)	_	1	(12)								
Cross currency swap – fixed rate liabilities	107	2	70	122								
Net investment hedges												
Foreign exchange risk												
Foreign currency liabilities	(455)	_	(455)	-								
Forward contracts	(255)	_	(254)	(1)								

	For the year ended October 31, 2023											
(Millions of Canadian dollars)	Change	in fair value of hedging instrument	Hedge ineffectiveness recognized in income (1)		Changes in the value of the hedging instrument recognized in OCI	Amount reclassifie from hedge reserve to incom						
Fair value hedges												
Interest rate risk												
Interest rate contracts – fixed rate assets	\$	1,385	\$	(60)	n.a.	n.						
Interest rate contracts – fixed rate liabilities		(205)		71	n.a.	n.e						
Cash flow hedges												
Interest rate risk												
Interest rate contracts – variable rate assets		(2,232)		7	\$ (3,930)	\$ (3,12						
Interest rate contracts – variable rate liabilities		2,416		(11)	4,498	3,04						
Foreign exchange risk		•		,	•	•						
Cross currency swap – fixed rate assets		(50)		_	(44)	(3						
Net investment hedges		()			( /	1						
Foreign exchange risk												
Foreign currency liabilities		(684)		_	(684)							
Forward contracts		(828)		_	(828)	(19						

<sup>(1)</sup> Hedge ineffectiveness recognized in income included losses of \$50 million that are excluded from the assessment of hedge effectiveness and are offset by economic hedges (October 31, 2023 – gains of \$3 million).

n.a. not applicable

## Note 9 Derivative financial instruments and hedging activities (continued)

## Reconciliation of components of equity

The following table provides a reconciliation by risk category of each component of equity and an analysis of other comprehensive income relating to hedge accounting:

	For	the year end	led O	ctober 31, 2024	For the year ended October 31, 2023					
(Millions of Canadian dollars)	Cash	flow hedge reserve		oreign currency nslation reserve	Casl	h flow hedge reserve		oreign currency slation reserve		
Balance at the beginning of the year	\$	2,756	\$	6,612	\$	2,394	\$	5,688		
Cash flow hedges										
Effective portion of changes in fair value:										
Interest rate risk		(40)				568				
Foreign exchange risk		71				(44)				
Equity price risk		413				(119)				
Net amount reclassified to profit or loss:										
Ongoing hedges:										
Interest rate risk		134				(377)				
Foreign exchange risk		(110)				37				
Equity price risk		(350)				93				
De-designated hedges:										
Interest rate risk		(811)				453				
Hedges of net investment in foreign operations										
Foreign exchange denominated debt				(455)				(684)		
Forward foreign exchange contracts				(254)				(828)		
Foreign currency translation differences for foreign										
operations				1,018				2,164		
Reclassification of losses (gains) on foreign currency										
translation to income				_				(160)		
Reclassification of losses (gains) on net investment								, ,		
hedging activities to income				1				191		
Tax on movements on reserves during the period		204		206		(249)		241		
Balance at the end of the year	\$	2,267	\$	7,128	\$	2,756	\$	6,612		

# Note 10 Premises and equipment

				For the	e year ended Octol	oer 31, 2024			
			Owned b	y the Bank (	1)		Right-of-us	e lease assets	
			Computer	Furniture, fixtures and other	Leasehold	Work in			-
(Millions of Canadian dollars)	Land 1	Buildings 6	equipment	equipment	improvements	process	Buildings	Equipment	Total (2)
Cost									
Balance at beginning of period	\$ 140 \$	1,251 \$	1,283	835	\$ 3,007	\$ 108	\$ 5,893	\$ 317	\$ 12,834
Additions	103	77	21	11	50	522	526	2	1,312
Acquisition through business combination	_	_	_	13	59	_	226	_	298
Transfers from work in process	_	5	240	132	102	(479)	_	-	_
Disposals	_	(6)	(140)	(82)	(29)	` -	(165	) -	(422)
Foreign exchange translation	1	2	10	3	19	_	61	_	96
Other	-	(4)	(3)	(12)	(39)	(22)	(109	) -	(189)
Balance at end of period	\$ 244 \$	1,325 \$	1,411	900	\$ 3,169	\$ 129	\$ 6,432	\$ 319	\$ 13,929
Accumulated depreciation									
Balance at beginning of period	\$ - \$	646 \$	723	550	\$ 1,863	\$ -	\$ 2,149	\$ 154	\$ 6,085
Depreciation	-	59	249	73	279	-	620	84	1,364
Disposals	-	(6)	(140)	(82)	(25)	_	(54	) -	(307)
Foreign exchange translation	-	1	8	2	7	-	21	-	39
Other	-	(6)	(6)	11	(52)	_	(51	) –	(104)
Balance at end of period	\$ - \$	694 \$	834	554	\$ 2,072	\$ -	\$ 2,685	\$ 238	\$ 7,077
Net carrying amount at end of period	\$ 244 \$	631 \$	577	\$ 346	\$ 1,097	\$ 129	\$ 3,747	\$ 81	\$ 6,852

					For th	e year ended Octob	er 31 2023					
	Owned by the Bank (1) Right-of-use lease assets											
(Millions of Canadian dollars)	Lan	Н В	uildings	Computer equipment	Furniture, fixtures and other equipment	Leasehold improvements	Work in process	Buildings	Equipment	Total		
Cost							•					
Balance at beginning of period Additions Acquisition through business combination	\$ 14	\$ -	1,261 -	\$ 1,169 32	\$ 836 12	29	\$ 120 511	\$ 5,748 385	\$ 299 8	\$ 12,419 1,049		
Transfers from work in process		-	- 19	246	62	- 187	(514)	_	_	_		
Disposals Foreign exchange translation		- 	(53) 6	(216) 22	(96) 9	(78) 32	) (2) 1	(331) 103	(31)	(807) 174		
Other	(2	2)	18	30	12	(8)	(8)	(12)	(31)	(1)		
Balance at end of period	\$ 140	) \$	1,251	\$ 1,283	\$ 835	\$ 3,007	\$ 108	\$ 5,893	\$ 317	\$ 12,834		
Accumulated depreciation Balance at beginning of period Depreciation Disposals Foreign exchange translation Other		- \$ - - -	627 51 (50) 3 15	\$ 640 247 (216) 16 36	91	\$ 1,656 235 (70) 16 26	-	\$ 1,643 559 (112) 31 28	\$ 114 : 92 (31) - (21)	5,205 1,275 (567) 72 100		
Balance at end of period	\$ -	- \$	646	\$ 723	\$ 550	\$ 1,863	\$ -	\$ 2,149	\$ 154	6,085		
Net carrying amount at end of period	\$ 14	) \$	605	\$ 560	\$ 285	\$ 1,144	\$ 108	\$ 3,744	\$ 163	\$ 6,749		

<sup>(1)</sup> As at October 31, 2024, we had total contractual commitments of \$137 million to purchase premises and equipment (October 31, 2023 – \$120 million).

## Lease payments

Total lease payments for the year ended October 31, 2024 were \$1,440 million, of which \$708 million or 49% relates to variable payments and \$732 million or 51% relates to fixed payments. Total lease payments for the year ended October 31, 2023 were \$1,326 million, of which \$655 million or 49% relates to variable payments and \$671 million or 51% relates to fixed payments.

Total variable lease payments not included in the measurement of lease liabilities were \$697 million for the year ended October 31, 2024 (October 31, 2023 – \$647 million).

## Note 11 Goodwill and other intangible assets

## Goodwill

						For the year e	nded October 3	1, 2024				
							U.S. Wealth					
	Pe	rsonal			Canadian		Management	International				
(Millions of	Ban	king – C	aribbean Co	ommercial	Wealth	Global Asset	(including	Wealth	Investor		Capital	
Canadian dollars)	C	anada	Banking	Banking	Management	Management	City National)	Management	Services	Insurance	Markets	Total
Balance at beginning of period Acquisitions Dispositions		1,851 \$ 3,159 –	1,791 \$ - -	793 3,022	\$ 593 283	\$ 2,016 72 -	\$ 3,080 - -	\$ 1,124 - -	\$ 29 - -	\$ 112 - -	\$ 1,205 - -	\$ 12,594 6,536 -
Currency translations and other		(16)	7	-	1	76	11	74	-	-	3	156
Balance at end of period	\$	4,994 \$	1,798 \$	3,815	\$ 877	\$ 2,164	\$ 3,091	\$ 1,198	\$ 29	\$ 112	\$ 1,208	\$ 19,286

							F	or the year er	nded October 31	, 2023					
(Millions of		Personal anking –	Caribb	oean	Commercial	Canadiar Wealth		Global Asset	U.S. Wealth Management (including	International Wealth	Investor			Capital	
Canadian dollars)	Co	ınada (1)	Ban	king	Banking (1)	Managemen	t 1	Management	City National)	Management	Services	Insuranc	e 1	Markets	Total
Balance at beginning of period Acquisitions Dispositions Currency translations	\$	1,802 49 -	\$ 1,	759 – –	\$ 772 21 -	\$ 589		1,928	\$ 3,027 - -	\$ 1,042 - -	\$ 59 - (30		2 \$ - -	1,187 \$ - -	12,277 70 (30)
and other		_		32	-	4	1	88	53	82	-		-	18	277
Balance at end of period	\$	1,851	\$ 1,	791	\$ 793	\$ 593	3 \$	2,016	\$ 3,080	\$ 1,124	\$ 29	\$ 11	2 \$	1,205 \$	12,594

<sup>(1)</sup> Amounts have been revised from those previously presented to conform to our new basis of segment presentation. Refer to Note 26 for further details of our business segments.

<sup>(2)</sup> Includes investment properties with a cost of \$186 million (October 31, 2023 – \$nil) which are subject to operating leases and carried at cost less accumulated amortization. The fair value, determined by a combination of internal investment professionals and external independent property appraisers with the relevant professional qualifications and experience, is \$188 million (October 31, 2023 – \$nil).

## Note 11 Goodwill and other intangible assets (continued)

Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. As a result, the previous Canadian Banking CGU became two CGUs: Personal Banking – Canada and Commercial Banking. Canadian Banking goodwill was allocated to these new CGUs. Comparative results have been revised to conform to our new basis of segment presentation. Refer to Note 26 for further details of our business segments.

We perform our annual impairment test by comparing the carrying amount of each CGU to its recoverable amount. The recoverable amount of a CGU is represented by its VIU, except in circumstances where the carrying amount of a CGU exceeds its VIU. In such cases, the greater of the CGU's FVLCD and its VIU is the recoverable amount. Our annual impairment test is performed as at August 1.

In our 2024 and 2023 annual impairment tests, the recoverable amount of our Caribbean Banking CGU was based on its FVLCD and the recoverable amounts of all other CGUs tested were based on their VIU.

#### Value in use

We calculate VIU using a five-year discounted cash flow method, with the exception of our International Wealth Management CGU where cash flow projections covering a seven-year period were used, which more closely aligns with the strategic growth plan resulting from the acquisition of RBC Brewin Dolphin. Future cash flows are based on financial plans agreed by management, estimated based on forecast results, business initiatives, capital required to support future cash flows and returns to shareholders. Key drivers of future cash flows include net interest margins and average interest-earning assets. The values assigned to these drivers over the forecast period are based on past experience, external and internal economic forecasts, and management's expectations of the impact of economic conditions on our financial results. Beyond the initial cash flow projection period, cash flows are assumed to increase at a constant rate using a nominal long-term growth rate (terminal growth rate). Terminal growth rates are based on the long-term steady state growth expectations in the countries within which the CGU operates. The discount rates used to determine the present value of each CGU's projected future cash flows are based on the bank-wide cost of capital, adjusted for the risks to which each CGU is exposed. CGU-specific risks include: country risk, business/operational risk, geographic risk (including political risk, devaluation risk, and government regulation), currency risk, and price risk (including product pricing risk and inflation).

The estimation of VIU involves significant judgment in the determination of inputs to the discounted cash flow model and is most sensitive to changes in future cash flows, discount rates and terminal growth rates applied to cash flows beyond the forecast period. The sensitivity of the VIU to key inputs and assumptions used was tested by recalculating the recoverable amount using reasonably possible changes to those parameters. As at August 1, 2024, no reasonably possible change in an individual key input or assumption, as described, would result in a CGU's carrying amount exceeding its recoverable amount based on VIU.

The terminal growth rates and pre-tax discount rates used in our discounted cash flow models are summarized below.

		As	at	
	August	1, 2023		
	Discount rate (1)	Terminal growth rate	Discount rate (1)	Terminal growth rate
Group of cash generating units				
Personal Banking – Canada (2)	11.7%	3.0%	11.7%	3.0%
Caribbean Banking	13.7	3.5	12.9	3.5
Commercial Banking (2)	11.7	3.0	11.7	3.0
Canadian Wealth Management	12.5	3.0	12.5	3.0
Global Asset Management	12.4	3.0	12.5	3.0
U.S. Wealth Management (including City National)	12.6	3.0	12.5	3.0
International Wealth Management	12.3	3.0	12.5	3.0
Investor Services	12.5	3.0	12.4	3.0
Insurance	12.5	3.0	12.4	3.0
Capital Markets	12.7	3.0	12.7	3.0

- (1) Pre-tax discount rates are determined implicitly based on post-tax discount rates.
- (2) Represent assumptions relating to the previous Canadian Banking CGU, which became the Personal Banking Canada and Commercial Banking CGUs effective the fourth quarter of 2024.

## Fair value less costs of disposal – Caribbean Banking

We calculated FVLCD using a discounted cash flow method that projects future cash flows over a 5-year period. Cash flows are based on management forecasts, adjusted to approximate the considerations of a prospective third-party buyer. Cash flows beyond the initial 5-year period are assumed to increase at a constant rate using a nominal long-term growth rate. Future cash flows, terminal growth rates, and discount rates are based on the same factors noted above. This fair value measurement is categorized as level 3 in the fair value hierarchy as certain significant inputs are not observable.

The estimation of FVLCD involves significant judgment in the determination of inputs to the discounted cash flow model and is most sensitive to changes in future cash flows, discount rates and terminal growth rates applied to cash flows beyond the forecast period. The sensitivity of the FVLCD to key inputs and assumptions was tested by recalculating the recoverable amount using reasonably possible changes to those parameters. As at August 1, 2024, no reasonably possible change in an individual key input or assumption, as described, would result in the CGU's carrying amount exceeding its recoverable amount.

# Other intangible assets

	For the year ended October 31, 2024										
(Millions of Canadian dollars)	ge	ternally nerated oftware	sc	Other oftware	inl	Core deposit tangibles	rela	Customer list and tionships (1)		process oftware	Total
Gross carrying amount								•			
Balance at beginning of period	\$	5,595	\$	1,097	\$	1,658	\$	2,456	\$	1,527	\$ 12,333
Additions		31		4		-		9		1,090	1,134
Acquisition through business combination		-		-		1,972		370		_	2,342
Transfers		1,204		42		-		-		(1,246)	-
Dispositions		(1,204)		(67)		-		(9)		(1)	(1,281)
Impairment losses		(37)		(18)		-		-		(30)	(85)
Currency translations		32		17		7		115		3	174
Other changes		(47)		(1)		-		-		14	(34)
Balance at end of period	\$	5,574	\$	1,074	\$	3,637	\$	2,941	\$	1,357	\$ 14,583
Accumulated amortization											
Balance at beginning of period	\$	(3,596)	\$	(658)	\$	(1,330)	\$	(846)	\$	-	\$ (6,430)
Amortization charge for the year		(986)		(102)		(325)		(136)		-	(1,549)
Dispositions		1,204		66				7		_	1,277
Impairment losses		12		5		-		_		_	17
Currency translations		(21)		(7)		(8)		(31)		_	(67)
Other changes		-		(33)		-		_		-	(33)
Balance at end of period	\$	(3,387)	\$	(729)	\$	(1,663)	\$	(1,006)	\$	-	\$ (6,785)
Net balance at end of period	\$	2,187	\$	345	\$	1,974	\$	1,935	\$	1,357	\$ 7,798

	For the year ended October 31, 2023 (Restated – Note 2)													
(Millions of Canadian dollars)	ge	Internally generated software		Other software		Core deposit tangibles	Customer list and relationships		In process software			Total		
Gross carrying amount														
Balance at beginning of period	\$	5,076	\$	908	\$	1,630	\$	2,472	\$	1,535	\$	11,621		
Additions		81		179		-		_		1,134		1,394		
Acquisition through business combination		-		31		-		_		_		31		
Transfers		1,067		78		_		_		(1,145)		_		
Dispositions		(509)		(145)		_		(160)		8		(806)		
Impairment losses		(73)		-		-		(9)		(5)		(87)		
Currency translations		68		17		28		144		38		295		
Other changes		(115)		29		-		9		(38)		(115)		
Balance at end of period	\$	5,595	\$	1,097	\$	1,658	\$	2,456	\$	1,527	\$	12,333		
Accumulated amortization														
Balance at beginning of period	\$	(3,031)	\$	(612)	\$	(1,146)	\$	(749)	\$	_	\$	(5,538)		
Amortization charge for the year		(993)		(146)		(160)		(172)		_		(1,471)		
Dispositions		506		157		_		114		-		777		
Impairment losses		(19)		_		_		_		-		(19)		
Currency translations		(37)		(13)		(24)		(33)		-		(107)		
Other changes		(22)		(44)		-		(6)		-		(72)		
Balance at end of period	\$	(3,596)	\$	(658)	\$	(1,330)	\$	(846)	\$	_	\$	(6,430)		
Net balance at end of period	\$	1,999	\$	439	\$	328	\$	1,610	\$	1,527	\$	5,903		

<sup>(1)</sup> Includes \$259 million of mutual fund management contracts with indefinite useful lives in the Global Asset Management CGU acquired in the HSBC Canada transaction.

## Note 12 Joint ventures and associated companies

We do not have any joint ventures or associated companies that are individually material to our financial results. The following table summarizes the carrying value of our interests in joint ventures and associated companies accounted for under the equity method as well as our share of the income of those entities.

	Joint ventures					Associated companies				
	As at and for the year ended									
		October 31		October 31		October 31		October 31		
(Millions of Canadian dollars)		2024		2023		2024		2023		
Carrying amount	\$	542	\$	215	\$	293	\$	286		
Share of: Net income (1)	\$	64	\$	18	\$	(41)	\$	5		

<sup>(1)</sup> Excludes impairment losses recognized on our interests in joint ventures and associated companies. During the year ended October 31, 2024, we recognized impairment losses of \$38 million in Non-interest income – Income (loss) from joint ventures and associates with respect to our interest in an associated company in our Wealth Management segment (October 31, 2023 – \$242 million).

## Note 13 Other assets

	 As	at
(Millions of Canadian dollars)	October 31 2024	October 31 2023 (Restated – Note 2)
Accounts receivable and prepaids	\$ 4,389	\$ 4,299
Accrued interest receivable	7,904	7,774
Cash collateral	20,475	20,104
Commodity trading receivables	9,834	5,979
Deferred income tax asset	4,328	3,116
Employee benefit assets	3,630	2,826
Held-for-sale assets	_	2,562
Insurance-related assets		
Insurance contract assets	588	681
Reinsurance contracts held assets	1,758	1,582
Segregated fund net assets (Note 15)	3,378	2,708
Collateral loans and other	517	529
Investments in joint ventures and associates	835	501
Margin deposits	11,108	8,849
Precious metals	6,018	2,753
Receivable from brokers, dealers and clients	3,343	2,834
Taxes receivable	7,418	8,908
Other	6,632	5,366
	\$ 92,155	\$ 81,371

## Note 14 Deposits

							As	at								
				Octob	er 3	1, 2024	7.5	October 31, 2023								
(Millions of Canadian dollars)	Demand (1) Notice (2) Te			Term (3)	Total	Demand (1)			lotice (2)	Term (3)			Total			
Personal Business and government Bank		205,714 369,943 9,675	\$	62,845 20,157 641	\$	253,580 449,570 37,406	\$ 522,139 839,670 47,722		186,530 316,200 7,996	\$	57,614 19,056 769	\$	197,802 409,819 35,901	\$	441,946 745,075 44,666	
	\$	585,332	\$	83,643	\$	740,556	\$ 1,409,531	\$	510,726	\$	77,439	\$	643,522	\$	1,231,687	
Non-interest-bearing (4) Canada United States Europe (5) Other International Interest-bearing (4)	\$	144,712 38,520 11 7,758	\$	7,164 - - -	\$	203 - - -	\$ 152,079 38,520 11 7,758	\$	132,994 40,646 17 7,265	\$	6,107 - - -	\$	168 - - -	\$	139,269 40,646 17 7,265	
Canada United States Europe (5) Other International		355,221 28,389 5,013 5,708		14,468 61,087 851 73		594,066 75,933 53,295 17,059	963,755 165,409 59,159 22,840		302,746 16,210 5,353 5,495		14,641 55,895 726 70		493,347 78,837 51,812 19,358		810,734 150,942 57,891 24,923	
	\$	585,332	\$	83,643	\$	740,556	\$ 1,409,531	\$	510,726	\$	77,439	\$	643,522	\$	1,231,687	

- (1) Demand deposits are deposits for which we do not have the right to require notice of withdrawal, which include both savings and chequing accounts.
- (2) Notice deposits are deposits for which we can legally require notice of withdrawal. These deposits are primarily savings accounts.
- (3) Term deposits are deposits payable on a fixed date, and include term deposits, guaranteed investment certificates and similar instruments.
- (4) The geographical splits of the deposits are based on the point of origin of the deposits and where the revenue is recognized. As at October 31, 2024, deposits denominated in U.S. dollars, British pounds, Euro and other foreign currencies were \$511 billion, \$34 billion, \$53 billion and \$29 billion, respectively (October 31, 2023 \$445 billion, \$34 billion, \$49 billion and \$32 billion, respectively).
- (5) Europe includes the United Kingdom and the Channel Islands.

#### Contractual maturities of term deposits (1)

	As	at
	October 31	October 31
(Millions of Canadian dollars)	2024	2023
Within 1 year:		
less than 3 months	\$ 207,698	\$ 182,373
3 to 6 months	94,585	69,868
6 to 12 months	173,603	151,079
1 to 2 years	79,777	76,232
2 to 3 years	61,175	49,965
3 to 4 years	45,767	36,774
4 to 5 years	20,692	36,506
Over 5 years	57,259	40,725
	\$ 740,556	\$ 643,522

<sup>(1)</sup> The aggregate amount of term deposits in denominations of one hundred thousand dollars or more is \$670 billion (October 31, 2023: \$586 billion).

## Average deposit balances and average rates of interest

		For the year ended										
	October 3	1, 2024	October 31, 2023									
(Millions of Canadian dollars, except for percentage amounts)	Average balances	Average rates		Average balances	Average rates							
Canada United States Europe Other International	\$ 1,035,064 191,257 58,693 32,016	3.57% 3.33 5.26 2.48	\$	913,669 196,490 70,426 31,035	3.02% 2.74 4.22 2.26							
	\$ 1,317,030	3.59%	\$	1,211,620	3.03%							

## Note 15 Insurance and reinsurance

Our insurance contracts issued include life, health, travel, annuity and segregated fund insurance products provided to individuals and businesses across Canada. Outside Canada, we have reinsurance and retrocession contracts issued with respect to longevity reinsurance, life retrocession and reinsurance for creditor life, disability and critical illness. Reinsurance contracts issued are presented within insurance contract balances on the Consolidated Balance Sheets.

In the normal course of business, we also enter into reinsurance contracts held to reinsure risks to other insurance and reinsurance companies in order to lower our risk profile, limit loss exposure to large risks, and provide additional capacity for future growth. The reinsurance contracts held do not relieve our obligations from the direct insurance contracts issued. We evaluate the financial condition of the reinsurers and monitor our concentrations of credit risks to minimize our exposure to losses from reinsurer insolvency. The carrying amounts of reinsurance contract held assets as disclosed in Note 13 represents our maximum exposure to credit risk at the reporting date.

The insurance and reinsurance contracts are presented on a portfolio basis such that portfolios of contracts that are in an asset position are presented separately from those that are in a liability position.

## Note 15 Insurance and reinsurance (continued)

## Insurance service and insurance investment results

The following table provides the composition of Insurance service result and Insurance investment result for insurance contracts issued and reinsurance contracts held.

		For the ye	ar enc	led
		October 31		October 31
(Millions of Canadian dollars)		2024		2023 (1)
Insurance revenue				
Amounts recognized for contracts using the GMM and VFA:				
Relating to changes in liabilities for remaining coverage:				
Expected incurred claims and other insurance services expenses	\$	2,970	\$	2,688
Release of risk adjustment for non-financial risk and other		191		179
CSM recognized for services provided		255		303
Recovery of insurance acquisition cash flows		81		78
		3,497		3,248
Amounts recognized for contracts using the PAA		1,576		1,422
		5,073		4,670
Insurance service expense (2)				
Incurred claims and other expenses		(3,901)		(3,522)
Losses on onerous contracts and reversals of such losses (future service)		(246)		(154)
Adjustments to liability for incurred claims (past service)		(2)		5
Amortization of insurance acquisition cash flows		(81)		(78)
		(4,230)		(3,749)
Net income (expense) from reinsurance contracts held		(66)		(218)
Insurance service result	\$	777	\$	703
Net investment income (3)	\$	3,259	\$	565
Insurance finance income (expense)	Ÿ	3,237	Ÿ	303
Interest accreted		(126)		(135)
Effect of changes in discount rates and other financial assumptions		(1,754)		259
Effect of changes in fulfilment cash flows at current rates when the corresponding effect through		(1,731)		237
CSM is at locked-in rates		(412)		(258)
Changes in fair value of underlying items for contracts using the VFA		(746)		(107)
Other		(93)		(180)
		(3,131)		(421)
Reinsurance finance income (expense)		166		12
Insurance investment result	\$	294	\$	156
Insurance service and insurance investment results	\$	1,071	\$	859

The 2023 amounts may not be fully comparable to the current period as we were not managing our asset and liability portfolios under IFRS 17 and Net investment income was not restated for the reclassifications of certain eligible financial assets. Refer to Note 2 for further details.

Includes Insurance service expense of \$948 million (October 31, 2023 – \$840 million) relating to insurance contracts measured using the PAA. Refer to Note 3 for amounts of interest, dividend and net gains (losses) from FVTPL financial instruments relating to the Insurance segment.

## Insurance contracts by remaining coverage and incurred claims

The following table shows the changes in net liabilities for insurance contracts for remaining coverage and incurred claims for short duration insurance contracts measured using the PAA and long duration insurance contracts measured using the GMM and VFA.

	As at or for the year ended														
			Octo	ber 31, 2024			October 31, 2023								
(Millions of Canadian dollars)	Liabilities for remaining coverage (1)			bilities for incurred claims (2)		Total		abilities for remaining overage (1)				Total			
Balance at beginning of period: Insurance contract assets Insurance contract liabilities	\$	1,531 (17,858)	\$	(850) (1,168)	\$	681 (19,026)	\$	1,191 (17,227)	\$	(704) (999)	\$	487 (18,226)			
Net insurance contract liabilities	\$	(16,327)	\$	(2,018)	\$	(18,345)	\$	(16,036)	\$	(1,703)	\$	(17,739)			
Insurance revenue Insurance service expense Insurance finance income (expense) Investment components Cash flows:	\$	5,073 (358) (2,974) 705	\$	(3,872) (157) (705)	\$	5,073 (4,230) (3,131)	\$	4,670 (250) (388) 660	\$	(3,499) (33) (660)	\$	4,670 (3,749) (421)			
Premiums received Claims and other insurance service		(5,940)		-		(5,940)		(5,739)		-		(5,739)			
expenses paid Insurance acquisition cash flows and other		- 417		4,388		4,388		378		4,196		4,196 378			
Total cash flows Other movements	\$	(5,523) 343	\$	4,388 (218)	\$	(1,135) 125	\$	(5,361) 378	\$	4,196 (319)	\$	(1,165) 59			
Balance at end of period: Insurance contract assets Insurance contract liabilities	\$	1,805 (20,866)	\$	(1,217) (1,365)	\$	588 (22,231)	\$	1,531 (17,858)	\$	(850) (1,168)	\$	681 (19,026)			
Net insurance contract liabilities	\$	(19,061)	\$	(2,582)	\$	(21,643)	\$	(16,327)	\$	(2,018)	\$	(18,345)			

The ending liabilities for remaining coverage include loss component amounts of \$366 million (October 31, 2023 - \$122 million).

## Insurance contracts by measurement components using the GMM or VFA

The following table shows the changes in the measurement components of net liabilities for insurance contracts measured using the GMM and VFA by estimates of present value of future cash flows, risk adjustment for non-financial risk and CSM.

	As at or for the year ended											
		October 31, 20	24				October 31,	2023				
(Millions of Canadian dollars)	Estimates of present value of future cash flows	adjustment for non-	<b>CSM</b> (1)	Total		estimates of esent value of future cash flows	Risk adjustment for non- financial risk	CSM (1)		Total		
Balance at beginning of	cusirilows	IIIIuiiciui i isk	CSIM (1)	Total		Cusiiiiows	IIIdiicidi iisk	C3W (1)		10101		
period: Insurance contract assets Insurance contract	\$ 1,591	, , ,	(565) \$	482	\$	1,370	,	. ,	\$	434		
liabilities	(14,079	) (1,759)	(2,195)	(18,033)		(13,446)	(1,726)	(2,312)		(17,484)		
Net insurance contract liabilities	\$ (12,488	) \$ (2,303) \$	(2,760) \$	(17,551)	\$	(12,076)	\$ (2,234)	\$ (2,740)	\$	(17,050)		
Insurance service result Insurance finance expense	\$ 33	\$ 13 \$	176 \$	222	\$	92	\$ 30	\$ 217	\$	339		
(income) Cash flows:	(2,504	) (324)	(128)	(2,956)		127	(55)	(312)		(240)		
Premiums received Claims and other insurance service	(4,443	) –	-	(4,443)		(4,128)	-	-		(4,128)		
expenses paid Insurance acquisition	3,487	-	-	3,487		3,084	-	-		3,084		
cash flows and other	373	-	-	373		367	-	-		367		
Total cash flows Other movements	\$ (583 91	) \$ - \$ 60	- \$ (79)	(583) 72	\$	(677) 46	\$ - (44)	\$ - 75	\$	(677) 77		
Balance at end of period: Insurance contract assets Insurance contract	\$ 1,824	` '	(719) \$	537	\$	1,591	,	, ,	\$	482		
liabilities (2), (3)	(17,275	) (1,986)	(2,072)	(21,333)		(14,079)	(1,759)	(2,195)		(18,033)		
Net insurance contract liabilities	\$ (15,451	) \$ (2,554) \$	(2,791) \$	(20,796)	\$	(12,488)	\$ (2,303)	\$ (2,760)	\$	(17,551)		

The ending balance for CSM includes \$2.6 billion (October 31, 2023 - \$2.7 billion) relating to groups of insurance contracts initially recognized at transition date using the fair value approach. For the year ended October 31, 2024, CSM from contracts initially recognized was \$89 million (October 31, 2023 – \$109 million). Includes segregated fund insurance contract liabilities of \$3,375 million (October 31, 2023 – \$2,632 million) measured using the VFA. The fair value of the underlying items

The ending liabilities for incurred claims are primarily attributable to insurance contracts measured under the PAA.

for segregated fund insurance contracts amount to \$3,378 million (October 31, 2023 - \$2,708 million), which are substantially investments in mutual funds.

Certain comparative amounts have been revised from those previously presented.

## Expected recognition of contractual service margin

The following table presents the expected timing of CSM amortization into Non-interest income – Insurance service result applicable for insurance contracts issued and reinsurance contracts held measured using the GMM and VFA.

										As	As at										
		October 31, 2024									October 31, 2023										
(Millions of Canadian dollars)	W	ithin 1 year		1 to 5 years		5 to 10 years	Th	ereafter		Total	W	/ithin 1 year		1 to 5 years		5 to 10 years	Τŀ	nereafter		Total	
Insurance contracts issued Reinsurance	\$	(243)	\$	(894)	\$	(705)	\$	(949)	\$	(2,791)	\$	(245)	\$	(1,011)	\$	(655)	\$	(849)	\$	(2,760)	
contracts held		66		208		163		217		654		89		192		232		291		804	
Total	\$	(177)	\$	(686)	\$	(542)	\$	(732)	\$	(2,137)	\$	(156)	\$	(819)	\$	(423)	\$	(558)	\$	(1,956)	

#### Insurance risk

Insurance risk is the risk of loss due to actual experience emerging differently than that we assumed at the time of underwriting. Our main insurance risks include morbidity, mortality, longevity, policyholder behaviour (lapse) and travel risk. We developed an insurance risk management framework that is designed to identify, assess, manage, mitigate and report the insurance risks associated with our insurance businesses. In addition, we are subject to expense risk, which is the exposure to the variability in future expenses that are expected to be incurred in servicing insurance contracts. Our insurance risks are managed through the implementation of robust policies and controls over product design, pricing, underwriting and claim adjudication as well as reinsurance arrangements. Regular reviews are conducted on valuation models, experience studies for key actuarial assumptions, exposure concentration, retention limits, and expense budgets.

#### Market risk

We are exposed to market risk, which is the risk that the carrying value or future cash flows of insurance and reinsurance contract balances or financial assets fluctuate because of changes or volatility in market prices. Market risk includes equity, interest rate and spread, foreign currency and inflation risks. Our exposure to market risk is managed through our asset/liability management activities, developed to achieve long-term investment returns in excess of our obligations under insurance contracts.

## Methods and assumptions

The measurement of insurance and reinsurance contract balances requires various estimates and assumptions. The following summarizes the significant estimates and assumptions used which should be read in conjunction with the accounting policies for insurance and reinsurance contracts disclosed in Note 2.

## Estimates of future cash flows

The significant non-financial assumptions used to determine the estimates of future cash flows for insurance and reinsurance contract balances are as follows:

- Mortality, longevity and morbidity Mortality estimates for life insurance contracts are based on standard industry insured
  mortality tables, adjusted where appropriate to reflect our own experience. Longevity estimates for annuity insurance
  contracts are developed based on industry longevity experience for pensioners, adjusted where appropriate to reflect our
  own experience. Morbidity assumptions are made with respect to the rates of claim incidence and claim termination for
  health insurance contracts and are based on a combination of industry and our own experience.
- Policyholder behaviour Under certain policies, the policyholder has a contractual right to change benefits and premiums, as well as convert policies to permanent forms of insurance. All policyholders have the right to terminate their policies through lapse. Lapses represent the termination of policies due to non-payment of premiums. Lapse assumptions are primarily based on our recent experience adjusted for emerging industry experience where applicable.
- Expense Directly attributable future expense and directly attributable acquisition expense assumptions are derived from
  internal cost studies and established allocation methodologies, with inflation as a financial assumption reflected in the
  estimate of future expenses.

#### Discount rates

Discount rates used to present value future cash flows reflect the time value of money, currency of the cash flows, and the characteristics of the insurance and reinsurance contracts. Cash flows that vary based on the returns on underlying items are discounted at rates reflecting that variability. For cash flows that do not vary based on the returns on underlying items, we predominantly apply the top-down approach in determining the discount rates. Under this approach, the discount rates for the observable periods are determined using yield curves implied from a reference portfolio of assets adjusted to eliminate factors (credit and market risk of the financial assets) that are not relevant to the insurance contracts. For unobservable periods, the discount rates are interpolated using the last observable point and the ultimate discount rate, composed of a risk-free rate and illiquidity premium. For a selected portfolio, the bottom-up approach is applied in determining the discount rate, which uses a risk-free rate plus an illiquidity premium to reflect the characteristics of the contracts. Management judgment is required in estimating the market and credit risk factors and illiquidity premiums in determining the discount rates.

The following table provides the current discount yields relating to the Canadian dollar that are primarily used to present value cash flows that do not vary based on returns on underlying items for insurance and reinsurance contracts.

	5 year	10 year	20 year	30 year	Ultimate
October 31, 2024	4.2%	5.6%	6.0%	4.2%	4.1%
October 31, 2023	5.6%	6.4%	6.1%	4.8%	4.1%

#### Risk adjustment

The risk adjustment for non-financial risk represents the compensation that we require for bearing the uncertainty about the amount and timing of cash flows that arises from non-financial risks as we fulfil the insurance contracts. Non-financial risks are insurance risks such as mortality, morbidity, and other risks such as lapse and expense. We used a margin approach to set the risk adjustment by applying a margin to non-financial assumptions and discounting the resulting margin cash flows at the same discount rates used to present value future cash flows. The risk adjustment for insurance and reinsurance contracts corresponds to a confidence level of approximately 85% overall as at October 31, 2024 (October 31, 2023 – 85%). The confidence level represents the probability that the variability in the actual cash flows will be lower than our risk adjustment for non-financial risk.

## Sensitivity analysis

The following table demonstrates the effects on net income, total equity and balance sheet CSM of reasonably possible changes in key market and non-financial assumptions in the measurement of our insurance contracts on a net of reinsurance contracts held basis, which do not differ materially from the sensitivities on a gross basis. The impact of changing non-financial assumptions is primarily absorbed in the CSM recorded on the Consolidated Balance Sheets, unless contracts are onerous in which case the effects are reflected in net income. The effects on net income reflect the impact of changes to market assumptions and the impact of changes to the CSM that is released to income for the year. The percentage change in each variable is applied to a range of existing actuarial modelling assumptions to derive the possible impact on net income and total equity, as well as CSM recorded on the Consolidated Balance Sheets. The analyses are performed where a single assumption is changed while holding other assumptions constant, which is unlikely to occur in practice. Combining the effects presented in the table may not reflect the total actual effects of changing multiple assumptions at the same time. Actual results can differ materially from these estimates.

	As at and for the year ended												
	Octo	ber	31, 2024	Oc	ober 3	1, 2023							
(Millions of Canadian dollars)	Increase) t (decrease) t net income an total equil	to id	Increase (decrease) to CSM	Incred (decrease) net income a total equ	Increase (decrease) to CSM								
Market variables:						_							
1% increase in market interest rates (1)	\$	3	\$ -	\$ (8	35) \$	_							
1% decrease in market interest rates (1)	(	2)	_		)4	_							
10% increase in equity market values (2)		_	16		_	14							
10% decrease in equity market values (2)		-	(18)		_	(19)							
Non-financial variables:													
2% adverse change in life mortality rates	(4	5)	(17)	(4	10)	(18)							
2% adverse change in annuitant mortality rates	(	1)	(151)		(4)	(135)							
5% adverse change in morbidity rates	(5	7)	(179)	(4	11)	(186)							
10% adverse change in lapse rates	(1	6)	(334)		(7)	(334)							
5% increase in expenses	(	5)	(52)		(3)	(49)							

<sup>(1)</sup> Interest rate sensitivities assume a parallel shift of 100 basis points across the entire yield curves as at the reporting date with no change to the ultimate risk-free rate. The impacts are net of the changes in fair value of financial assets held in respect of insurance activities. The 2023 amounts are not comparable to the current period as we were not managing our asset and liability portfolios under IFRS 17 and the 2023 amounts were not adjusted to reflect the reclassifications of certain financial assets that came into effect as of November 1, 2023. See Note 2 for further details.

<sup>(2)</sup> Equity market value sensitivities assume a 10% change across all equity markets as at the reporting date reflecting the changes in fair value of the underlying financial assets on the insurance contracts measured using the VFA.

#### Note 16 Employee benefits – Pension and other post-employment benefits

#### Plan characteristics

We sponsor a number of programs that provide pension and post-employment benefits to eligible employees. The majority of beneficiaries of the pension plans are located in Canada and other beneficiaries of the pension plans are primarily located in the U.S., the U.K. and the Caribbean. The pension arrangements including investment, plan benefits and funding decisions are governed by local pension committees or trustees, who are legally segregated from the Bank, or management. Significant plan changes require the approval of the Board of Directors.

Our defined benefit pension plans provide pension benefits based on years of service, contributions and average earnings at retirement. Our primary defined benefit pension plans are closed to new members. New employees are generally eligible to join defined contribution pension plans. The specific features of these plans vary by location. We also provide supplemental non-registered (non-qualified) pension plans for certain executives and senior management that are typically unfunded or partially funded.

Our defined contribution pension plans provide pension benefits based on accumulated employee and Bank contributions. The Bank contributions are based on a percentage of an employee's annual earnings and a portion of the Bank contribution may be dependent on the amount being contributed by the employee and their years of service.

Our primary other post-employment benefit plans provide health, dental, disability and life insurance coverage and cover a number of current and retired employees who are mainly located in Canada. These plans are unfunded unless required by legislation.

We measure our benefit obligations and pension assets as at October 31 each year. All plans are valued using the projected unit-credit method. We fund our registered defined benefit pension plans in accordance with actuarially determined amounts required to satisfy employee benefit obligations under current pension regulations. For our principal pension plan, the most recent funding actuarial valuation was completed on January 1, 2023, and the next valuation is required no later than January 1, 2026.

For the year ended October 31, 2024, total contributions to our pension plans (defined benefit and defined contribution plans) and other post-employment benefit plans were \$455 million and \$91 million (October 31, 2023 – \$346 million and \$80 million), respectively. For 2025, total contributions to our pension plans and other post-employment benefit plans are expected to be \$508 million and \$93 million, respectively.

#### Risks

By their design, the defined benefit pension and other post-employment benefit plans expose the Bank to various risks such as investment performance, reductions in discount rates used to value the obligations, increased longevity of plan members, future inflation levels impacting future salary increases as well as future increases in healthcare costs. These risks will reduce over time due to the membership closure of our primary defined benefit pension plans and migration to defined contribution pension plans.

The following table presents the financial position related to all of our material pension and other post-employment benefit plans worldwide, including executive retirement arrangements.

				As	at			
	October 31, 2024					October 31, 2023		
(Millions of Canadian dollars)		Other post- Defined benefit employment pension plans benefit plans		Defined benefit pension plans		Other post- employment benefit plans		
Canada Fair value of plan assets Present value of defined benefit obligation	\$	16,421 13,142	\$	1,563	\$	13,704 11,142	\$	1,348
Net surplus (deficit)	\$	3,279	\$	(1,563)	\$	2,562	\$	(1,348)
International Fair value of plan assets Present value of defined benefit obligation	\$	741 638	\$	- 76	\$	664 585	\$	- 69
Net surplus (deficit)	\$	103	\$	(76)	\$	79	\$	(69)
Total Fair value of plan assets Present value of defined benefit obligation	\$	17,162 13,780	\$	_ 1,639	\$	14,368 11,727	\$	- 1,417
Total net surplus (deficit)	\$	3,382	\$	(1,639)	\$	2,641	\$	(1,417)
Effect of asset ceiling		(37)		_		(9)		_
Total net surplus (deficit), net of effect of asset ceiling	\$	3,345	\$	(1,639)	\$	2,632	\$	(1,417)
Amounts recognized in our Consolidated Balance Sheets		2.622				2.027	,	
Employee benefit assets Employee benefit liabilities	\$	3,630 (285)	\$	(1,639)	\$	2,826 (194)	\$	- (1,417)
Total net surplus (deficit), net of effect of asset ceiling	\$	3,345	\$	(1,639)	\$	2,632	\$	(1,417)

The following table presents an analysis of the movement in the financial position related to all of our material pension and other post-employment benefit plans worldwide, including executive retirement arrangements.

				As at or for th	ne year e	nded		
		October 31	, 2024	ļ		October 31	, 202	3
			(	Other post-				Other post-
	Def	ined benefit		nployment	De	fined benefit		mployment
(Millions of Canadian dollars)	pen:	sion plans (1)	be	nefit plans	pen	nsion plans (1)	be	nefit plans
Fair value of plan assets at beginning of period Interest income Remeasurements	\$	14,368 818	\$	Ξ	\$	15,026 786	\$	_ _
Return on plan assets (excluding interest income)		1,991		_		(895)		_
Change in foreign currency exchange rate Contributions – Employer		46 29		91		55 23		80
Contributions – Employer Contributions – Plan participant		42		24		44		22
Payments		(675)		(115)		(645)		(102)
Business combinations/Disposals		561		( - '		(17)		( /
Other		(18)		_		`(9)		-
Fair value of plan assets at end of period	\$	17,162	\$	-	\$	14,368	\$	-
Benefit obligation at beginning of period	\$	11,727	\$	1,417	\$	11,893	\$	1,462
Current service costs Past service costs		188		34		195		33
Interest expense		668		(6) 81		624		(2) 77
Remeasurements		000		01		024		, ,
Actuarial losses (gains) from demographic								
assumptions		(167)		(60)		(2)		(24)
Actuarial losses (gains) from financial								
assumptions		1,337		132		(480)		(46)
Actuarial losses (gains) from experience adjustments		2		8		70		(1)
Change in foreign currency exchange rate		37		3		45		(1)
Contributions – Plan participant		42		24		44		22
Payments		(675)		(115)		(645)		(102)
Business combinations/Disposals		`621′		`121′		`(17)		` (3)
Benefit obligation at end of period	\$	13,780	\$	1,639	\$	11,727	\$	1,417
Unfunded obligation	\$	83	\$	1,639	\$	18	\$	1,417
Wholly or partly funded obligation		13,697		´ –		11,709		. –
Total benefit obligation	\$	13,780	\$	1,639	\$	11,727	\$	1,417

<sup>(1)</sup> For pension plans with funding deficits, the benefit obligations and fair value of plan assets as at October 31, 2024 were \$929 million and \$665 million, respectively (October 31, 2023 – \$300 million and \$106 million, respectively).

## Pension and other post-employment benefit expense

The following table presents the composition of our pension and other post-employment benefit expense related to our material pension and other post-employment benefit plans worldwide.

	For the year ended									
	Pensio	n plans		employment it plans						
(Millions of Canadian dollars)	October 31 2024	October 31 2023	October 31 2024	October 31 2023						
Current service costs	\$ 188	\$ 195	\$ 34	\$ 33						
Past service costs	_	_	(6)	(2)						
Net interest expense (income)	(150)	(162)	81	77						
Remeasurements of other long-term benefits	_	_	3	(1)						
Administrative expense	18	9	-	_						
Defined benefit pension expense	\$ 56	\$ 42	\$ 112	\$ 107						
Defined contribution pension expense	426	323	_	_						
	\$ 482	\$ 365	\$ 112	\$ 107						

Service costs for the year ended October 31, 2024 totalled \$186 million (October 31, 2023 – \$193 million) for pension plans in Canada and \$2 million (October 31, 2023 – \$2 million) for International plans. Net interest expense (income) for the year ended October 31, 2024 totalled \$(145) million (October 31, 2023 – \$(157) million) for pension plans in Canada and \$(5) million (October 31, 2023 – \$(5) million) for International plans.

#### Note 16 Employee benefits – Pension and other post-employment benefits (continued)

## Pension and other post-employment benefit remeasurements

The following table presents the composition of our remeasurements recorded in OCI related to our material pension and other post-employment benefit plans worldwide.

	For the year ended							
	Defined benefit pension plans				Other post-employ benefit plans			
	October 31 October 31			0	ctober 31		October 31	
(Millions of Canadian dollars)		2024		2023		2024		2023
Actuarial (gains) losses:								
Changes in demographic assumptions	\$	(167)	\$	(2)	\$	(50)	\$	(27)
Changes in financial assumptions		1,337		(480)		122		(45)
Experience adjustments		2		70		5		2
Return on plan assets (excluding interest based on discount rate)		(1,991)		895		-		_
Change in asset ceiling (excluding interest income)		(4)		1		-		_
	\$	(823)	\$	484	\$	77	\$	(70)

Remeasurements recorded in OCI for the year ended October 31, 2024 were gains of \$818 million (October 31, 2023 – losses of \$440 million) for pension plans in Canada and gains of \$5 million (October 31, 2023 – losses of \$44 million) for International plans.

#### Investment policy and strategies

Defined benefit pension plan assets are invested prudently in order to meet our longer term pension obligations. The pension plans' investment strategy is to hold a diversified mix of investments by asset class and geographic location in order to reduce investment-specific risk to the funded status while maximizing the expected returns to meet pension obligations. Investment of the plan's assets follows an asset/liability framework as investment is conducted with careful consideration of the pension obligation's sensitivity to interest rates and credit spreads which are key risk factors impacting the obligation's value. Factors taken into consideration in developing our asset mix include but are not limited to the following:

- the nature of the underlying benefit obligations, including the duration and term profile of the liabilities;
- the member demographics, including expectations for normal retirements, terminations, and deaths;
- the financial position of the pension plans;
- · the diversification benefits obtained by the inclusion of multiple asset classes; and
- expected asset returns, including asset and liability correlations, along with liquidity requirements of the plan.

To implement our asset mix policy, we may invest in debt securities, equity securities and alternative investments. Our holdings in certain investments, including common shares, debt securities rated lower than BBB and residential and commercial mortgages, cannot exceed a defined percentage of the market value of our defined benefit pension plan assets. We may use derivative instruments as either a synthetic investment to more efficiently replicate the performance of an underlying security, or as a hedge against financial risks within the plan. To manage our credit risk exposure, where derivative instruments are not centrally cleared, counterparties are required to meet minimum credit ratings and enter into collateral agreements.

Our defined benefit pension plan assets are primarily comprised of debt and equity securities and alternative investments. Our equity securities generally have unadjusted quoted market prices in an active market (Level 1) and our debt securities generally have quoted market prices for similar assets in an active market (Level 2). Alternative investments and other includes cash, hedge funds, and private fund investments including infrastructure equity, real estate, private debt and private equity. In the case of private fund investments, no quoted market prices are usually available (Level 2 or Level 3). These fund assets are either valued by an independent valuator or priced using observable market inputs.

During the year ended October 31, 2024, the management of defined benefit pension investments focused on increased allocation to risk reducing investments and strategies, improving diversification, while striving to maintain expected investment return. Over time, an increasing allocation to debt securities is being used to reduce asset/liability duration mismatch and hence variability of the plan's funded status due to interest rate movement. Longer maturity debt securities, given their price sensitivity to movements in interest rates, are considered to be a good economic hedge to risk associated with the plan's liabilities, which are discounted using predominantly long maturity bond interest rates as inputs.

			As	at		
		October 31, 2024			October 31, 2023	
(Millions of Canadian dollars, except percentages)	Fair value	Percentage of total plan assets	Quoted in active market (3)	Fair value	Percentage of total plan assets	Quoted in active market (3)
Equity securities						
Domestic	\$ 926	5%	100%	\$ 723	5%	100%
Foreign	2,306	13	100	1,726	12	100
Debt securities						
Domestic government bonds (4)	5,608	33	_	4,343	30	_
Foreign government bonds	145	1	_	128	1	_
Corporate and other bonds	3,788	22	_	3,296	23	_
Alternative investments and other	4,389	26	8	4,152	29	6
	\$ 17,162	100%	21%	\$ 14,368	100%	19%

- (1) The asset allocation is based on the underlying investments held directly and indirectly through the funds as this is how we manage our investment policy and strategies.
- (2) Represents the total plan assets held in our Canadian and International pension plans
- (3) If our assessment of whether or not an asset was quoted in an active market was based on direct investments, 25% of our total plan assets would be classified as quoted in an active market (October 31, 2023 22%).
- (4) Amounts are net of securities sold under repurchase agreements.

As at October 31, 2024, the plan assets include 0.4 million (October 31, 2023 – 0.3 million) of our common shares with a fair value of \$66 million (October 31, 2023 – \$37 million) and \$74 million (October 31, 2023 – \$62 million) of our debt securities. For the year ended October 31, 2024, dividends received on our common shares held in the plan assets were \$2 million (October 31, 2023 – \$3 million).

#### Maturity profile

The following table presents the maturity profile of our defined benefit pension plan obligation.

	As at October 31, 2024							
Millions of Canadian dollars, except participants and years)		Canada		International		Total		
Number of plan participants		70,000		5,889		75,889		
Actual benefit payments 2024	\$	638	\$	37	\$	675		
Benefits expected to be paid 2025		715		40		755		
Benefits expected to be paid 2026		735		40		775		
Benefits expected to be paid 2027		755		40		795		
Benefits expected to be paid 2028		777		41		818		
Benefits expected to be paid 2029		796		43		839		
Benefits expected to be paid 2030-2034		4,202		242		4,444		
Weighted average duration of defined benefit payments	13.	.2 years	14	4.5 years	13	3.3 years		

#### Significant assumptions

Our methodologies to determine significant assumptions used in calculating the defined benefit pension and other postemployment benefit expense are as follows:

#### Discount rate

For the Canadian pension and other post-employment benefit plans, all future expected benefit payments at each measurement date are discounted at spot rates from a derived Canadian AA corporate bond yield curve. The derived curve is based on actual short and mid-maturity corporate AA rates and extrapolated longer term rates. The extrapolated corporate AA rates are derived from observed corporate A, corporate AA and provincial AA yields. For the International pension and other post-employment benefit plans, all future expected benefit payments at each measurement date are discounted at spot rates from a local AA corporate bond yield curve. Spot rates beyond 30 years are set to equal the 30-year spot rate. The discount rate is the equivalent single rate that produces the same discounted value as that determined using the entire discount curve. This valuation methodology does not rely on assumptions regarding reinvestment returns.

#### Rate of increase in future compensation

The assumptions for increases in future compensation are developed separately for each plan, where relevant. Each assumption is set based on the price inflation assumption and compensation policies in each market, as well as relevant local statutory and plan-specific requirements.

#### Healthcare cost trend rates

Healthcare cost calculations are based on both short and long-term trend assumptions established using the plan's recent experience as well as market expectations.

#### Note 16 Employee benefits – Pension and other post-employment benefits (continued)

### Weighted average assumptions to determine benefit obligation

	As at						
		nefit pension ans		employment it plans			
	October 31	October 31	October 31	October 31			
	2024	2023	2024	2023			
Discount rate Rate of increase in future compensation Healthcare cost trend rates (1)	4.8%	5.7%	4.9%	5.8%			
	3.0%	3.0%	n.a.	n.a.			
- Medical	n.a.	n.a.	3.5%	3.4%			
- Dental	n.a.	n.a.	3.5%	3.1%			

<sup>(1)</sup> For our other post-employment benefit plans, the assumed trend rates used to measure the expected benefit costs of the defined benefit obligations are also the ultimate trend rates.

#### Mortality assumptions

Mortality assumptions are significant in measuring our obligations under the defined benefit pension plans. These assumptions have been set based on country specific statistics. Future longevity improvements have been considered and included where appropriate. The following table summarizes the mortality assumptions used for material plans.

		As at								
	October 31, 2024					October 31,	2023			
	Life expecta	ncy at 65 for	a member cu	rrently at	Life expectancy at 65 for a member currently at					
	Age 6	55	Age 4	5	Age 6	5	Age 45			
(In years)	Male	Female	Male	Female	Male	Female	Male	Female		
Country										
Canada	23.2	24.4	24.2	25.3	23.9	24.3	24.8	25.2		
United Kingdom	22.1	24.4	23.4	25.7	23.5	25.4	24.7	26.8		

#### Sensitivity analysis

Assumptions adopted can have a significant effect on the value of the obligations for defined benefit pension and other post-employment benefit plans and are based on historical experience and market inputs. The increase (decrease) in obligation in the following table has been determined for key assumptions assuming all other assumptions are held constant. In practice, this is unlikely to occur, as changes in some of the assumptions may be correlated. The following table presents the sensitivity analysis of key assumptions for 2024.

		Increase (decreas in obligation			
(Millions of Canadian dollars)	Defined benefit pension plans				
Discount rate					
Impact of 100 bps increase in discount rate Impact of 100 bps decrease in discount rate	\$	(1,572) 1,941	\$ (178) 220		
Rate of increase in future compensation					
Impact of 50 bps increase in rate of increase in future compensation		35	_		
Impact of 50 bps decrease in rate of increase in future compensation		(38)	-		
Mortality rate					
Impact of an increase in longevity by one additional year		329	22		
Healthcare cost trend rate					
Impact of 100 bps increase in healthcare cost trend rate		n.a.	49		
Impact of 100 bps decrease in healthcare cost trend rate		n.a.	(41)		

n.a. not applicable

n.a. not applicable

#### Note 17 Other liabilities

	As	at
	October 31	October 31
	2024	2023
(Millions of Canadian dollars)		(Restated – Note 2)
Accounts payable and accrued expenses	\$ 1,475	\$ 1,580
Accrued interest payable	13,226	10,936
Cash collateral '	19,582	23,365
Commodity liabilities	13,996	11,716
Deferred income	4,149	3,830
Deferred income taxes	542	426
Dividends payable	2,123	1,975
Employee benefit liabilities	1,924	1,611
Held-for-sale liabilities	-	2,560
Insurance-related liabilities	36	194
Lease liabilities	4,673	4,764
Negotiable instruments	1,702	1,684
Payable to brokers, dealers and clients	8,270	8,065
Payroll and related compensation	11,781	9,089
Precious metals certificates	743	775
Provisions	793	644
Short-term borrowings of subsidiaries	_	4,507
Taxes payable	2,398	2,962
<u>Other</u>	7,264	5,339
	\$ 94,677	\$ 96,022

#### Note 18 Subordinated debentures

The debentures are unsecured obligations and are subordinated in right of payment to the claims of depositors and certain other creditors. The amounts presented below are net of our own holdings in these debentures, and include the impact of fair value hedges used for managing interest rate risk.

(Millions of Canadian dollars, except percentage and foreign currency)  Denominated in					As at			
Maturity	Earliest par value redemption date	Interest rate	foreign currency (millions)		October 31 <b>2024</b>			October 31 2023
January 27, 2026 (1) July 25, 2029 (1), (2) December 23, 2029 (1) February 1, 2033 (1) June 30, 2030 (1) November 3, 2031 (1) May 3, 2032 (1) January 28, 2033 (1) April 3, 2034 (1) August 8, 2034 (1) October 1, 2083 November 1, 2083 June 29, 2085	July 25, 2024 December 23, 2024 February 1, 2028 June 30, 2025 November 3, 2026 May 3, 2027 January 28, 2028 April 3, 2029 August 8, 2029 Any interest payment date Any interest payment date	4.65% 2.74% 2.88% (3) 5.01% (4) 2.09% (5) 2.14% (6) 2.94% (7) 1.67% (8) 5.10% (9) 4.83% (10) (11) (12) (13)	US\$	1,500	\$	2,026 - 1,495 1,461 1,219 1,708 955 935 2,020 1,263 224 9	\$	1,939 1,459 1,442 1,418 1,249 1,637 919 868 - - 224
Deferred financing costs					\$	13,556 (10)	\$	11,396 (10)
					\$	13,546	\$	11,386

- (1) The notes include non-viability contingent capital (NVCC) provisions, necessary for the notes to qualify as Tier 2 regulatory capital under Basel III. NVCC provisions require the conversion of the instrument into a variable number of common shares in the event that OSFI deems the Bank non-viable or a federal or provincial government in Canada publicly announces that the Bank has accepted or agreed to accept a capital injection. In such an event, each note is convertible into common shares pursuant to an automatic conversion formula with a multiplier of 1.5 and a conversion price based on the greater of: (i) a floor price of \$5.00 (subject to adjustment in certain circumstances), and (ii) the current market price of our common shares based on the volume weighted average trading price of our common shares on the Toronto Stock Exchange. The number of shares issued is determined by multiplying the par value of the note (including accrued and unpaid interest on such note) by the multiplier and then dividing the total by the conversion price.
- (2) On July 25, 2024, we redeemed all \$1,500 million of our outstanding 2.74% subordinated debentures due July 25, 2029 for 100% of their principal amount plus interest accrued to, but excluding, the redemption date.
- (3) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 0.89% above the 3-month CDOR, subject to transition to an ABR due to the interest rate benchmark reform.
- (4) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 2.12% above the Daily Compounded CORRA.
- (5) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 1.31% above the 3-month CDOR, subject to transition to an ABR due to the interest rate benchmark reform.
- (6) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 0.61% above the 3-month CDOR, subject to transition to an ABR due to the interest rate benchmark reform.
- (7) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 0.76% above the 3-month CDOR, subject to transition to an ABR due to the interest rate benchmark reform.
- (8) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 0.55% above the 3-month CDOR, subject to transition to an ABR due to the interest rate benchmark reform.
- (9) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 1.56% above the Daily Compounded CORRA.
- (10) Interest at stated interest rate until earliest par value redemption date, and thereafter at a rate of 1.55% above the Daily Compounded CORRA.
- (11) Interest at a rate of 0.50% plus the average of mid-market quotations for Government of Canada Treasury Bills maturing in or about 30 days from the date of quotation.
- (12) Interest at a rate of 0.75% plus the average of mid-market quotations for Government of Canada Treasury Bills maturing in or about 30 days from the date of quotation.
- (13) Interest at a rate of 0.25% above the U.S. dollar 3-month London Interbank Mean Rate (LIMEAN) under a synthetic methodology, subject to transition to 0.44911% plus compounded SOFR for interest period commencing December 30, 2024 due to the interest rate benchmark reform. In the event of a reduction of the annual dividend we declare on our common shares, the interest payable on the debentures is reduced pro rata to the dividend reduction and the interest reduction is payable with the proceeds from the sale of newly issued common shares.

#### Note 18 Subordinated debentures (continued)

All redemptions, cancellations and exchanges of subordinated debentures are subject to the consent and approval of OSFI.

#### Maturity schedule

The aggregate maturities of subordinated debentures, based on the maturity dates under the terms of issue, are as follows:

	As at
	October 31
(Millions of Canadian dollars)	2024
Within 1 year	\$ _
1 to 5 years	2,026
5 to 10 years Thereafter	11,056
Thereafter	474
	\$ 13,556

## Note 19 Equity

## Share capital

#### Authorized share capital

Preferred – An unlimited number of First Preferred Shares and Second Preferred Shares without nominal or par value, issuable in series; provided that the maximum aggregate consideration for all First Preferred Shares outstanding at any time may not exceed \$30 billion, and for all Second Preferred Shares that may be issued may not exceed \$5 billion.

Common – An unlimited number of shares without nominal or par value may be issued.

Shares of Shares of Shares of Shares of Shares of Shares and as otherwise noted)   Shares and as otherwise noted	idends clared share
Shares of Shares of Shares of Shares of Shares of Shares and as otherwise noted)   Shares of Shares and so Shares issued	clared share
Common shares issued   Balance at the displaying of period   1,402,373   \$19,398   1,385,591   \$17,318   1,385,591   \$17,318   1,402,373   \$19,398   1,385,591   \$17,318   1,402,373   \$19,398   1,385,591   \$17,318   1,402,373   \$19,398   1,402,373   \$19,398   1,385,591   \$17,318   1,402,373   \$19,398   1,402,373   \$19,398   1,402,373   \$19,398   \$1,385,591   \$17,318   1,402,373   \$19,398   \$1,402,373   \$19,39	share
Common shares issued   Balance at beginning of period   1,402,373   \$ 19,398   1,385,591   \$ 17,318   18   18   18   18   18   18   18	
Balance at beginning of period   1,402,373   19,398   1,385,591   5 17,318   15   15   17,418   168   168   740   68   17   168   168   16,042   2,012   17   16   168   16,042   2,012   17   17   17   17   18   18   18   18	5.34
Compensation plans (I)   1,746   168   740   68   18sued in connection with dividend reinvestment plan   11,850   1,460   16,042   2,012   2,012   1,400   16,042   2,012   1,400   16,042   2,012   1,400   1,415,080   1,4	5.34
Purchased for cancellation (2)   (889)   (13)     -	5.34
Treasury - common shares   Balance at beginning of period (3)   (1,862) \$ (231)   (2,680) \$ (334)   Purchases   (43,995)   (5,302)   (30,195)   (3,556)	5.34
Balance at beginning of period (3) Purchases Sales  (43,995) (5,302) Balance at end of period (3)  Common shares outstanding  1,414,504 \$ 20,952  Preferred shares and other equity instruments issued First preferred (4) Non-cumulative, fixed rate Series BH Series BI Non-cumulative, 5-Year Rate Reset Series BB(6) Series BB(6) Series BB(6) Series BF 12,000 Series BF 12,000 Series BF 12,000 Series BO Series BU (7) Series BU (8) Non-cumulative, fixed rate/floating rate  (1,862) \$ (231) (30,195) (3,556) (30,195) (3,56) (30,195) (3,556) (30,195) (3,556) (30,195) (3,556) (30,195) (3,556) (30,195) (3,556) (30,195) (3,556) (3,556) (3,56)	
Common shares outstanding	
Preferred shares and other equity instruments issued First preferred (4) Non-cumulative, fixed rate Series BH 6,000 \$ 150 \$ 1.23 6,000 \$ 150 \$ \$ Series BI Non-cumulative, 5-Year Rate Reset Series AZ (5) Series BB (6) Series BD 24,000 600 0.80 24,000 500 Series BF 12,000 300 0.75 12,000 300 Series BT 750 750 750 750 Series BU (7) Series BW (8) Non-cumulative, fixed rate/floating rate	
instruments issued First preferred (4) Non-cumulative, fixed rate  Series BH Series BI Non-cumulative, 5-Year Rate Reset  Series AZ (5) Series BD Series BD Series BF Series BO Series BO Series BT Series BU (7) Series BW (8) Non-cumulative, fixed rate/floating rate	
Series BT       750       750       4.20%       750       750         Series BU (7)       750       750       7.408%       -       -       -         Series BW (8)       600       600       6.698%       -       -       -         Non-cumulative, fixed rate/floating rate       -       -       -       -	1.23 1.23 0.93 0.91 0.80 0.75 1.20
	4.20%
Series C-2 (9) – US\$ – 15 23 US\$  Other equity instruments Limited recourse capital notes (LRCNs) (10)	67.50
Series 1 (11)       1,750       1,750       1,750       1,750       1,750       1,750       1,750       1,750       1,250       1,250       1,250       1,250       1,250       1,250       1,250       1,250       1,000	4.50% 4.00% 3.65%
<b>69,100 \$ 9,020</b> 106,765 \$ 7,323	
Treasury – preferred shares and other equity instruments         Balance at beginning of period (3)       (9)       (9)       (12)       (5)         Purchases       (1,921)       (1,225)       (1,924)       (519)         Sales       1,943       1,245       1,927       515	
Balance at end of period (3) 13 \$ 11 (9) \$ (9)	
Preferred shares and other equity instruments outstanding 69,113 \$ 9,031 106,756 \$ 7,314	

- Includes fair value adjustments to stock options of \$10 million (October 31, 2023 \$6 million).
- On June 10, 2024, we announced a normal course issuer bid (NCIB) to purchase up to 30 million of our common shares, commencing on June 12, 2024 and continuing until June 11, 2025, or such earlier date as we complete the repurchase of all shares permitted under the bid. During the year ended October 31, 2024, under the NCIB we purchased for cancellation common shares at a total fair value of \$140 million (average cost of \$157.74 per share), with a book value of \$13 million (book value of \$14.83 per share). As at October 31, 2023, we did not have an active NCIB. During the year ended October 31, 2023, we did not purchase for cancellation any common shares. Positive amounts represent a short position and negative amounts represent a long position.
- First Preferred Shares were issued at \$25 per share with the exception of Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BT (Series BT), Non-Cumulative 5-Year Rate Reset First Preferred Share Series BU (Series BU) and Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BW (Series BW) which were issued at \$1,000 per share, and Non-Cumulative Fixed Rate/Floating Rate First Preferred Shares Series C-2 (Series C-2) which were issued at US\$1,000 per share (equivalent to US\$25 per depositary share).
- On May 24, 2024, we redeemed all 20 million of our issued and outstanding Non-Cumulative 5-Year Rate Reset First Preferred Shares Series AZ at a redemption price of \$25.00 per share.
- On August 24, 2024, we redeemed all 20 million of our issued and outstanding Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BB at a redemption price of (6) \$25.00 per share.
- On January 25, 2024, we issued 750 thousand Series BU to certain institutional investors, at a price of \$1,000 per share, for total gross proceeds of \$750 million.
- On July 24, 2024, we issued 600 thousand Series BW to certain institutional investors, at a price of \$1,000 per share, for total gross proceeds of \$600 million.
- On November 7, 2023, we redeemed all of our issued and outstanding Series C-2 for cash at a redemption price of US\$1,000 per share (equivalent to US\$25 per depositary share). Concurrently, we redeemed all 615 thousand Series C-2 depositary shares, each of which represents a one-fortieth interest in a C-2 share.
- Each series of LRCNs (LRCN Series) were issued at a \$1,000 per note, with the exception of LRCN Series 4 which were issued at US\$1,000 per note. The number of shares represent
- the number of notes issued and the dividends declared per share represent the annual interest rate percentage applicable to the notes issued as at the reporting date. In connection with the issuance of LRCN Series 1, we issued \$1,750 million of Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BQ (Series BQ); in connection with the issuance of LRCN Series 2, we issued \$1,250 million of Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BR (Series BR); in connection with the issuance of LRCN Series 3, we issued \$1,000 million of Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BS (Series BS); in connection with the issuance of LRCN Series 4, we issued US\$1,000 million of Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BV (Series BV). The Series BQ, BR and BS preferred shares were issued at a price of \$1,000 per share and the Series BV preferred shares were issued at a price of US\$1,000 per share. These preferred shares were issued to a consolidated trust to be held as trust assets in connection with each respective LRCN Series.

#### Significant terms and conditions of preferred shares and other equity instruments

0						
As at October 31, 2024	Current annual yield	Premium	Current dividend per share (1)	Earliest redemption date (2)	Issue date	Redemption price (2), (3)
Preferred shares						
First preferred						
Non-cumulative, fixed rate						
Series BH (4)	4.90%		\$ .306250	November 24, 2020	June 5, 2015	\$ 26.00
Series BI (4)	4.90%		.306250	November 24, 2020	July 22, 2015	26.00
Non-cumulative, 5-Year					•	
Rate Reset (5)						
Series BD (4)	3.20%	2.74%	.200000	May 24, 2020	January 30, 2015	25.00
Series BF (4)	3.00%	2.62%	.187500	November 24, 2020	March 13, 2015	25.00
Series BO (4)	5.885%	2.38%	.367813	February 24, 2024	November 2, 2018	25.00
Series BT (4)	4.20%	2.71%	21.000000	January 24, 2027	November 5, 2021	1,000.00
Series BU (4)	7.408%	3.90%	37.040000	January 25, 2029	January 25, 2024	1,000.00
Series BW (4)	6.698%	3.40%	33.490000	October 24, 2029	July 24, 2024	1,000.00
Other equity instruments						
Limited recourse capital						
notes (6)						
Series 1 (7)	4.50%	4.137%	n.a.	October 24, 2025	July 28, 2020	\$1,000.00
Series 2 (8)	4.00%	3.617%	n.a.	January 24, 2026	November 2, 2020	1,000.00
Series 3 (9)	3.65%	2.665%	n.a.	October 24, 2026	June 8, 2021	1,000.00
Series 4 (10)	7.50%	2.887%	n.a.	May 2, 2029	April 24, 2024	US\$1,000.00

- (1) With the exception of Series BT, BU and BW, non-cumulative preferential dividends of each Series are payable quarterly, as and when declared by the Board of Directors, on or about the 24th day of February, May, August and November. In the case of Series BT, BU and BW, non-cumulative preferential dividends are payable semi-annually, as and when declared by the Board of Directors.
- (2) Subject to the consent of OSFI and the requirements of the Bank Act (Canada), we may, on or after the dates specified above, redeem First Preferred Shares. In the case of Series BD, BF, and BO, these may be redeemed for cash at a price per share of \$25 if redeemed on the earliest redemption date and on the same date every fifth year thereafter. In the case of Series BH and BI, these may be redeemed for cash at a price per share of \$26 if redeemed during the 12 months commencing on the earliest redemption date and decreasing by \$0.25 each 12-month period thereafter to a price per share of \$25 if redeemed four years from the earliest redemption date or thereafter. In the case of Series BT and BW, these may be redeemed for cash at a price of \$1,000 if redeemed during the earliest redemption period of January 24, 2027 to February 24, 2027 and October 24, 2029 to November 24, 2029, respectively, and during the same redemption period every fifth year thereafter. In the case of Series BU, these may be redeemed for cash at a price of \$1,000 if redeemed during the earliest redemption period from January 25, 2029 to February 24, 2029 and during the period from January 24 to and including February 24 every fifth year thereafter.
- (3) Subject to the consent of OSFI and the requirements of the Bank Act (Canada), we may purchase the First Preferred Shares of each Series for cancellation at the lowest price or prices at which, in the opinion of the Board of Directors, such shares are obtainable.
- (4) The preferred shares include NVCC provisions, necessary for the shares to qualify as Tier 1 regulatory capital under Basel III. NVCC provisions require the conversion of the instrument into a variable number of common shares in the event that OSFI deems the Bank non-viable or a federal or provincial government in Canada publicly announces that the Bank has accepted or agreed to accept a capital injection. In such an event, each preferred share is convertible into common shares pursuant to an automatic conversion formula with a multiplier of 1 and with a conversion price based on the greater of: (i) a floor price of \$5 (subject to adjustment in certain circumstances), and (ii) the current market price of our common shares based on the volume weighted average trading price of our common shares on the Toronto Stock Exchange. The number of shares issued is determined by dividing the preferred share value by the conversion price.
- (5) The dividend rate will reset on the earliest redemption date or on the last day of the redemption period, as applicable, and every fifth year thereafter at a rate equal to the 5-year Government of Canada bond yield plus the premium indicated. The holders of Series BD, BF and BO shares have the option to convert their shares into non-cumulative floating rate First Preferred Shares subject to certain conditions on the earliest redemption date and every fifth year thereafter at a rate equal to the three-month Government of Canada Treasury Bill rate plus the premium indicated.
- The current annual yield on each LRCN Series represents the annual interest rate applicable to the notes issued as at the reporting date. The payments of interest and principal in cash on the LRCN Series are made at our discretion, and non-payment of interest and principal in cash does not constitute an event of default. In the event of (i) non-payment of interest on any interest payment date, (ii) non-payment of the redemption price in case of a redemption of a LRCN Series, (iii) non-payment of principal at the maturity of a LRCN Series, or (iv) an event of default on a LRCN Series, holders of such LRCN Series will have recourse only to the assets (Trust Assets) held by a third-party trustee in a consolidated trust in respect of such LRCN Series and each such noteholder will be entitled to receive its pro rata share of the Trust Assets. In such an event, the delivery of the Trust Assets for each LRCN Series will represent the full and complete extinguishment of our obligations under the related LRCN Series. The LRCNs include NVCC provisions, necessary for the shares to qualify as Tier 1 regulatory capital under Basel III. NVCC provisions require the conversion of the instrument into a variable number of common shares in the event that OSFI deems the Bank non-viable or a federal or provincial government in Canada publicly announces that the Bank has accepted or agreed to accept a capital injection. In such an event, each note is automatically redeemed and the redemption price will be satisfied by the delivery of Trust Assets, which will consist of common shares pursuant to an automatic conversion of the series of preferred shares that were issued concurrently with the related LRCN Series. Each series of preferred shares include an automatic conversion formula with a conversion price based on the greater of: (i) a floor price of \$5 (subject to adjustment in certain circumstances), and (ii) the current market price of our common shares based on the volume weighted average trading price of our common shares on the Toronto Stock Exchange. The number of common shares issued in respect of each series of preferred shares will be determined by dividing the preferred share value (\$1,000 plus declared and unpaid dividends) by the conversion price. The number of common shares delivered to each noteholder will be based on such noteholder's pro rata interest in the Trust Assets. Subject to the consent of OSFI, we may purchase LRCNs for cancellation at such price or prices and upon such terms and conditions as we in our absolute discretion may determine, subject to any applicable law restricting the purchase of notes.
- (7) LRCN Series 1 bear interest at a fixed rate of 4.5% per annum until November 24, 2025, and thereafter at a rate per annum, reset every fifth year, equal to the 5-Year Government of Canada Yield plus 4.137% until maturity on November 24, 2080. The interest is paid semi-annually on or about the 24<sup>th</sup> day of May and November. LRCN Series 1 is redeemable during the period from October 24 to and including November 24, commencing in 2025 and every fifth year thereafter to the extent we redeem Series BQ pursuant to their terms and subject to the consent of OSFI and requirements of the *Bank Act* (Canada).
- (8) LRCN Series 2 bear interest at a fixed rate of 4.0% per annum until February 24, 2026, and thereafter at a rate per annum, reset every fifth year, equal to the 5-Year Government of Canada Yield plus 3.617% until maturity on February 24, 2081. The interest is paid semi-annually on or about the 24th day of February and August. LRCN Series 2 is redeemable during the period from January 24 to and including February 24, commencing in 2026 and every fifth year thereafter to the extent we redeem Series BR pursuant to their terms and subject to the consent of OSFI and requirements of the Bank Act (Canada).
- (9) LRCN Series 3 bear interest at a fixed rate of 3.65% per annum until November 24, 2026, and thereafter at a rate per annum, reset every fifth year, equal to the 5-Year Government of Canada Yield plus 2.665% until maturity on November 24, 2081. The interest is paid semi-annually on or about the 24th day of May and November. LRCN Series 3 is redeemable during the period from October 24 to and including November 24, commencing in 2026 and every fifth year thereafter to the extent we redeem Series BS pursuant to their terms and subject to the consent of OSFI and requirements of the Bank Act (Canada).
- (10) LRCN Series 4 bear interest at a fixed rate of 7.5% per annum until May 2, 2029, and thereafter at a rate per annum, reset every fifth year, equal to the U.S. Treasury Rate plus 2.887% until maturity on May 2, 2084. The interest is paid quarterly on or about the 2nd day of February, May, August and November. LRCN Series 4 is redeemable on May 2, 2029 and on each 2nd day of February, May, August and November thereafter to the extent we redeem Series BV pursuant to their terms and subject to the consent of OSFI and requirements of the Bank Act (Canada).
- n.a. not applicable

#### Restrictions on the payment of dividends

We are prohibited by the *Bank Act* (Canada) from declaring any dividends on our preferred or common shares when we are, or would be placed as a result of the declaration, in contravention of the capital adequacy and liquidity regulations or any regulatory directives issued under the Act. We may not pay dividends on our common shares at any time unless all dividends to which preferred shareholders are then entitled have been declared and paid or set apart for payment.

Currently, these limitations do not restrict the payment of dividends on our preferred or common shares.

#### Dividend reinvestment plan

Our dividend reinvestment plan (DRIP) provides common and preferred shareholders with a means to receive additional common shares rather than cash dividends. The plan is only open to shareholders residing in Canada or the U.S. The requirements of our DRIP are satisfied through either open market share purchases or shares issued from treasury. During the third and fourth quarters of 2024 and the first quarter of the year ended October 31, 2023, the requirements of our DRIP were satisfied through open market share purchases. During the first and second quarters of 2024 and the second, third and fourth quarters of the year ended October 31, 2023, the requirements of our DRIP were satisfied through shares issued from treasury at a discount.

#### Shares available for future issuances

As at October 31, 2024, 14.6 million common shares are available for future issue relating to our DRIP and potential exercise of stock options and awards outstanding. In addition, we may issue up to 38.9 million common shares from treasury under the RBC Umbrella Savings and Securities Purchase Plan that was approved by shareholders on February 26, 2009.

#### Note 20 Share-based compensation

#### Stock option plans

We have stock option plans for certain key employees. Under the plans, options are periodically granted to purchase common shares. The exercise price for the majority of the grants is determined as the higher of the volume-weighted average of the trading prices per board lot (100 shares) of our common shares on the Toronto Stock Exchange (i) on the day preceding the day of grant; and (ii) the five consecutive trading days immediately preceding the day of grant. The exercise price for the remaining grants is the closing market share price of our common shares on the New York Stock Exchange on the date of grant. All options vest over a four-year period, and are exercisable for a period not exceeding 10 years from the grant date.

The compensation expense recorded for the year ended October 31, 2024, in respect of the stock option plans was \$16 million (October 31, 2023 – \$11 million). The compensation expense related to non-vested options was \$9 million at October 31, 2024 (October 31, 2023 – \$5 million), to be recognized over the weighted average period of 2.0 years (October 31, 2023 – 1.9 years). Analysis of the movement in the number and weighted average exercise price of options is set out below:

#### A summary of our stock option activity and related information

	For the year ended								
	Octob	October 31, 2024 October 3							
(Canadian dollars per share except share amounts)	Number of options (thousands)	Weighted average exercise price (1)	Number of options (thousands)	Weighted average exercise price (1)					
Outstanding at beginning of period Granted Exercised (2), (3) Forfeited in the period	7,767 1,666 (1,720) (338)	\$ 106.01 125.37 91.03 124.64	7,509 1,088 (740) (90)	\$ 100.07 131.64 84.76 113.55					
Outstanding at end of period	7,375	\$ 113.00	7,767	\$ 106.01					
Exercisable at end of period	3,212	\$ 97.02	3,830	\$ 91.84					

<sup>(1)</sup> The weighted average exercise prices reflect the conversion of foreign currency-denominated options at the exchange rates as of October 31, 2024 and October 31, 2023. For foreign currency-denominated options exercised during the year, the weighted average exercise prices are translated using exchange rates as at the settlement date.

## Options outstanding as at October 31, 2024 by range of exercise price

	(	Options outstanding	Options exercisable				
	Number	Weighted	Weighted average remaining	Number	Weighted		
(Canadian dollars per share except share amounts and years)	outstanding (thousands)	average exercise price (1)	contractual life (years)	exercisable (thousands)	average exercise price (1)		
\$73.14 - \$90.23	932	\$ 83.87	1.64	932	\$ 83.87		
\$96.55 - \$102.33	994	98.76	3.55	994	98.76		
\$104.70 - \$106.00	1,862	105.44	5.69	1,286	105.19		
\$125.37 – \$125.37	1,553	125.37	9.12	-	-		
\$129.99 - \$131.64	2,034	130.77	7.59	-	-		
	7,375	\$ 113.00	6.14	3,212	\$ 97.02		

<sup>(1)</sup> The weighted average exercise prices reflect the conversion of foreign currency-denominated options at the exchange rate as of October 31, 2024.

<sup>(2)</sup> Cash received for options exercised during the year was \$157 million (October 31, 2023 – \$63 million) and the weighted average share price at the date of exercise was \$144.69 (October 31, 2023 – \$130.94).

<sup>(3)</sup> New shares were issued for all stock options exercised in 2024 and 2023.

#### Note 20 Share-based compensation (continued)

The weighted average fair value of options granted during the year ended October 31, 2024 was estimated at \$13.60 (October 31, 2023 – \$11.51). This was determined by applying the Black-Scholes model on the date of grant, taking into account the specific terms and conditions under which the options are granted, such as the vesting period and expected share price volatility estimated by considering the historic average share price volatility over a historical period corresponding to the expected option life. The following assumptions were used to determine the fair value of options granted:

#### Weighted average assumptions

	For the ye	ear ended
	October 31	October 31
(Canadian dollars per share except percentages and years)	2024	2023
Share price at grant date	\$ 128.62	\$ 130.16
Risk-free interest rate	3.29%	2.89%
Expected dividend yield	4.20%	3.79%
Expected share price volatility	16%	14%
Expected life of option	6 Years	6 Years

#### Employee savings and share ownership plans

We offer many employees an opportunity to own our common shares through savings and share ownership plans. Under these plans, the employees can generally contribute between 1% and 10% of their annual salary or benefit base for commission-based employees. For each contribution between 1% and 6%, we will match 50% of the employee contributions in our common shares. For the RBC Dominion Securities Savings Plan, our maximum annual contribution is \$4,500 per employee. For the RBC U.K. Share Incentive Plan, our maximum annual contribution is £1,500 per employee. For the year ended October 31, 2024, we contributed \$154 million (October 31, 2023 – \$139 million), under the terms of these plans, towards the purchase of our common shares. As at October 31, 2024, an aggregate of 35 million common shares were held under these plans (October 31, 2023 – 36 million common shares).

#### Deferred share and other plans

We offer deferred share unit plans to executives, certain key employees and non-employee directors of the Bank. Under these plans, participants may choose to receive all or a percentage of their annual variable short-term incentive bonus, commission, or directors' fee in the form of deferred share units (DSUs). The participants must elect to participate in the plan prior to the beginning of the year. DSUs earn dividend equivalents in the form of additional DSUs at the same rate as dividends on common shares. The participant is not allowed to convert the DSUs until retirement or termination of employment/directorship. The cash value of the DSUs is equivalent to the market value of common shares when conversion takes place.

We also offer unit awards for certain key employees within Capital Markets. The bonus is invested as RBC share units and a specified percentage vests on a specified number of anniversary dates each year. Each vested amount is paid in cash and is based on the original number of share units granted plus accumulated dividends, valued using the average closing price of RBC common shares during the five trading days immediately preceding the vesting date.

We offer performance deferred share award plans to certain key employees, all of which vest at the end of three years. Upon vesting, the award is generally paid in cash and is based on the original number of RBC share units granted plus accumulated dividends valued using the average closing price of RBC common shares during the five trading days immediately preceding the vesting date. A portion of the award under certain plans may be increased or decreased up to 25%, depending on our total shareholder return compared to a defined peer group of global financial institutions.

We maintain non-qualified deferred compensation plans for certain key employees in the U.S. These plans allow eligible employees to defer a portion of their annual income and a variety of productivity and recruitment bonuses and allocate the deferrals among specified fund choices, including a RBC Share Account fund that tracks the value of our common shares.

The following table presents the units granted under the deferred share and other plans for the year.

#### Units granted under deferred share and other plans

		For the ye	For the year ended					
	October 3	1, 2024	October	31, 2023				
(Units and per unit amounts)	Units granted (thousands)	Weighted average fair value per unit	Units granted (thousands)	Weighted average fair value per unit				
Deferred share unit plans	550	\$ 134.64	466	\$ 130.61				
Capital Markets compensation plan unit awards	3,053	167.79	4,231	110.32				
Performance deferred share award plans	2,848	123.83	2,362	131.41				
Deferred compensation plans	86	132.99	103	126.81				
Other share-based plans	1,108	129.38	1,506	130.12				
	7,645	\$ 143.07	8,668	\$ 120.79				

Our liabilities for the awards granted under the deferred share and other plans are measured at fair value, determined based on the quoted market price of our common shares and specified fund choices as applicable. Annually, our obligation is increased by additional units earned by plan participants, and is reduced by forfeitures, cancellations, and the settlement of vested units. In addition, our obligation is impacted by fluctuations in the market price of our common shares and specified fund units. For performance deferred share award plans, the estimated outcome of meeting the performance conditions also impacts our obligation.

The following tables present the units that have been earned by the participants, our obligations for these earned units under the deferred share and other plans, and the related compensation expenses (recoveries) recognized for the year.

## Obligations under deferred share and other plans

		at		
	October 31	, 2024	October 31,	2023
	Units	Carrying	Units	Carrying
(Millions of Canadian dollars except units)	(thousands)	amount	(thousands)	amount
Deferred share unit plans	6,243	\$ 1,051	5,786	\$ 641
Capital Markets compensation plan unit awards	9,593	1,603	9,934	1,098
Performance deferred share award plans	6,068	1,022	5,808	643
Deferred compensation plans (1)	2,109	355	2,654	294
Other share-based plans	2,394	363	2,135	234
	26,407	\$ 4,394	26,317	\$ 2,910

<sup>(1)</sup> Excludes obligations not determined based on the quoted market price of our common shares.

## Compensation expenses recognized under deferred share and other plans

		For the	year en	ided
	1	October 31		October 31
(Millions of Canadian dollars)		2024		2023
Deferred share unit plans	\$	395	\$	(51)
Capital Markets compensation plan unit awards		643		126
Performance deferred share award plans		685		216
Deferred compensation plans		797		213
Other share-based plans		276		104
	\$	2,796	\$	608

## Note 21 Income taxes

#### Components of tax expense

	For the	year ended
	October 31	October 31
	2024	2023
(Millions of Canadian dollars)		(Restated – Note 2)
Income taxes (recoveries) in Consolidated Statements of Income		
Current tax Tax expense for current year	\$ 4,829	\$ 4,074
Adjustments for prior years	298	851
Rećoveries arising from previously unrecognized tax loss, tax credit or temporary difference of a prior period	(4)	(100)
u prior period	, ,	, ,
	5,123	4,825
Deferred tax Origination and reversal of temporary difference	(1,118)	(1,308)
Effects of changes in tax rates	(1,110)	(47)
Adjustments for prior years	(383)	125
Rećoveries arising from previously unrecognized tax loss, tax credit or temporary difference of a prior period, net	_	(24)
	(1,501)	(1,254)
	3,622	3,571
Income taxes (recoveries) in Consolidated Statements of Comprehensive Income and Changes	3,022	3,371
in Equity		
Other comprehensive income		
Net unrealized gains (losses) on debt securities and loans at fair value through other comprehensive income	302	(10)
Provision for credit losses recognized in income	(3)	(10)
Reclassification of net losses (gains) on debt securities and loans at fair value through other	(3)	
comprehensive income to income	(39)	(39)
Unrealized foreign currency translation gains (losses)	(11)	20
Net foreign currency translation gains (losses) from hedging activities	(195)	(306)
Reclassification of losses (gains) on net investment hedging activities to income	-	45
Net gains (losses) on derivatives designated as cash flow hedges	105	190
Reclassification of losses (gains) on derivatives designated as cash flow hedges to income Remeasurement gains (losses) on employee benefit plans	(309) 202	59 (68)
Net gains (losses) from fair value change due to credit risk on financial liabilities designated at	202	(68)
fair value through profit or loss	(399)	(222)
Net gains (losses) on equity securities designated at fair value through other comprehensive	( , , ,	, ,
income	43	24
Share-based compensation awards	(12)	2
Distributions on other equity instruments and issuance costs	(69)	(59)
	(385)	(364)
Total income taxes	\$ 3,237	\$ 3,207

#### Note 21 Income taxes (continued)

The following is an analysis of the differences between the income tax expense reflected in the Consolidated Statements of Income and the amounts calculated at the Canadian statutory tax rate.

#### Reconciliation to statutory tax rate

			For the ye	ar end	ed		
(Millions of Canadian dollars, except for percentage amounts)	October 31, 2024 October				er 31, 2023 (Restated – Note 2)		
Income taxes at Canadian statutory tax rate	\$	5,502	27.7%	\$	5,037	27.7%	
Increase (decrease) in income taxes resulting from:							
Lower average tax rate applicable to subsidiaries		(1,971)	(9.9)		(2,081)	(11.4)	
Tax-exempt income from securities		(52)	(0.3)		(337)	(1.9)	
Tax rate change			· -		1,050	5.8	
Other		143	0.7		(98)	(0.6)	
Income taxes in Consolidated Statements of Income / effective tax rate	\$	3,622	18.2%	\$	3,571	19.6%	

The effective income tax rate of 18.2% decreased 140 bps, primarily due to the impact of the Canada Recovery Dividend (CRD) in the prior year. The CRD is a one-time 15% tax for 2022 determined based on the average taxable income above \$1 billion for taxation years 2020 and 2021 and payable in equal installments over five years. The CRD impact was partially offset by the impact of lower average tax rate applicable to subsidiaries and lower tax-exempt income from securities.

Deferred tax assets and liabilities result from tax loss and tax credit carryforwards and temporary differences between the tax basis of assets and liabilities and their carrying amounts on our Consolidated Balance Sheets.

#### Significant components of deferred tax assets and liabilities

		As	at and for the year e	nded October 31,	2024	
(Millions of Canadian dollars)	Net asset beginning of period (1)		Change through profit or loss		Acquisitions/ disposals	Net asset end of period
Net deferred tax asset/(liability)	<b>P</b> 0.1.0 0 (1)		p. 0 0		0.0000.0	ретте
Allowance for credit losses Deferred compensation Business realignment charges	\$ 1,174 1,522 23	\$ 4 12	\$ 217 614 16	\$ (1) 19	\$ - - 4	\$ 1,394 2,167 43
Tax loss and tax credit carryforwards	261	Ξ.	71	(1)		331
Deferred (income) expense Financial instruments measured at fair value through other comprehensive income	651 (321)	164	641	2	20	1,318 (158)
Premises and equipment and intangibles Pension and post-employment related	(967) (333)	(206)	136 20	(22) (1)	(623) 57	
Other	`680	` _′	(213)		163	`630
	\$ 2,690	\$ (22)	\$ 1,501	\$ (4)	\$ (379)	\$ 3,786
Comprising Deferred tax assets Deferred tax liabilities	\$ 3,116 (426)					\$ 4,328 (542)
	\$ 2,690					\$ 3,786

				A	As at and fo	r the year er	nded Octo	ber 31, 2	023			
	begin	t asset ning of	th	nrough	l	Change hrough		ange rate	Acquisi		Ne	t asset end of
(Millions of Canadian dollars)	pe	riod (1)		equity	profit of	loss (1)	differe	ences	disp	osals		period
Net deferred tax asset/(liability)												
Allowance for credit losses	\$	987	\$	_	\$	185	\$	2	\$	_	\$	1,174
Deferred compensation		1,504		(2)		(2)		22		_		1,522
Business realignment charges		12		_		11		_		_		23
Tax loss and tax credit carryforwards		322		_		(57)		1		(5)		261
Deferred (income) expense		6		(3)		661		(11)		(2)		651
Financial instruments measured at fair value												
through other comprehensive income		(16)	)	(330)		_		25		_		(321)
Premises and equipment and intangibles		(1,234)	)	_		302		(27)		(8)		(967)
Pension and post-employment related		(435)	)	68		37		1		(4)		(333)
Other		535		4		117		24		_		680
	\$	1,681	\$	(263)	\$	1,254	\$	37	\$	(19)	\$	2,690
Comprising	•				•	•	•		•			•
Deferred tax assets	\$	2,120									\$	3,116
Deferred tax liabilities		(439)	)									(426)
	\$	1,681									\$	2,690

<sup>(1)</sup> Certain amounts are restated to reflect the IFRS 17 transition adjustments as at November 1, 2022. Refer to Note 2 for further details.

The tax loss and tax credit carryforwards amount of deferred tax assets primarily relates to losses and tax credits in our Canadian, U.S., and Caribbean operations. Deferred tax assets of \$331 million were recognized at October 31, 2024 (October 31, 2023 – \$261 million) in respect of tax losses and tax credits incurred in current or preceding years for which recognition is dependent on the projection of future taxable profits. Management's forecasts support the assumption that it is probable that the results of future operations will generate sufficient taxable income to utilize the deferred tax assets. The forecasts rely on continued liquidity and capital support to our business operations, including tax planning strategies implemented in relation to such support.

As at October 31, 2024, unused tax losses and tax credits of \$412 million and \$18 million (October 31, 2023 – \$417 million and \$18 million) available to be offset against potential tax adjustments or future taxable income were not recognized as deferred tax assets. There are no unused tax losses that will expire within one year (October 31, 2023 – \$nil), or in two to four years (October 31, 2023 – \$nil) and there are \$412 million of unused tax losses that will expire after four years (October 31, 2023 – \$417 million). There are no tax credits that will expire in one year (October 31, 2023 – \$nil), or in two to four years (October 31, 2023 – \$nil) and there are \$18 million that will expire after four years (October 31, 2023 – \$18 million).

The amount of temporary differences associated with investments in subsidiaries, branches and associates and interests in joint ventures for which deferred tax liabilities have not been recognized in the parent bank is \$30 billion as at October 31, 2024 (October 31, 2023 – \$22 billion).

#### Pillar Two legislation

The Budget Implementation Act, 2024, No. 1 (the BIA), introduced as Bill C-69 and tabled by the Government of Canada, received Royal Assent and was enacted on June 20, 2024. The BIA included the Global Minimum Tax Act (the GMTA) which implemented into Canadian law certain measures relating to the Organisation for Economic Co-operation and Development's two-pillar plan to combat tax base erosion and profit shifting, including a 15% global minimum corporate tax on certain multinational enterprises (Pillar Two). A number of other countries in which RBC operates have also enacted Pillar Two legislation. The GMTA and corresponding foreign Pillar Two legislation will be effective for our fiscal year beginning November 1, 2024.

Pillar Two income taxes may arise in or in relation to jurisdictions where the operations of RBC have an effective tax rate below 15%. This is anticipated to occur mainly in certain Caribbean and European jurisdictions. Had Pillar Two legislation in all relevant jurisdictions applied to the fiscal year ended October 31, 2024, RBC's effective tax rate would have increased by an estimated 1% to 2%. We continue to actively monitor the legislative developments in this area for each jurisdiction in which RBC operates.

#### Tax examinations and assessments

During the year, we received a reassessment from the Canada Revenue Agency (CRA) in respect of the 2019 taxation year, which suggested that Royal Bank of Canada owes additional taxes of approximately \$277 million as the CRA denied the deductibility of certain dividends. The reassessment received is consistent with the reassessments received for taxation years 2012 to 2018 of approximately \$1,856 million of additional income taxes and the reassessments received for taxation years 2009 to 2011 of approximately \$434 million of additional income taxes and interest in respect of the same matter. These amounts represent the maximum additional taxes owing for those years.

Legislative amendments introduced in the 2015 Canadian Federal Budget resulted in disallowed deduction of dividends from transactions with Taxable Canadian Corporations including those hedged with Tax Indifferent Investors, namely pension funds and non-resident entities with prospective application effective May 1, 2017. The dividends to which the reassessments relate include both dividends in transactions similar to those which are the target of the 2015 legislative amendments and dividends which are unrelated to the legislative amendments.

It is possible that the CRA will reassess us for significant additional income tax for subsequent years on the same basis. In all cases, we are confident that our tax filing position was appropriate and intend to defend ourselves vigorously.

#### Note 22 Earnings per share

	For the ye	ear en	ded
	October 31		October 31
	2024		2023
(Millions of Canadian dollars, except share and per share amounts)		(Re	stated – Note 2)
Basic earnings per share			
Net income .	\$ 16,240	\$	14,612
Dividends on preferred shares and distributions on other equity instruments	(322)		(236)
Net income attributable to non-controlling interests	`(10)́		` (7)
Net income available to common shareholders	\$ 15,908	\$	14,369
Weighted average number of common shares (in thousands)	1,411,903		1,391,020
Basic earnings per share (in dollars)	\$ 11.27	\$	10.33
Diluted earnings per share			
Net income available to common shareholders	\$ 15,908	\$	14,369
Weighted average number of common shares (in thousands)	1,411,903		1,391,020
Stock options (1)	1,833		1,483
Issuable under other share-based compensation plans	19		26
Average number of diluted common shares (in thousands)	1,413,755		1,392,529
Diluted earnings per share (in dollars)	\$ 11.25	\$	10.32

<sup>(1)</sup> 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 year ended October 31, 2024, no outstanding options were excluded from the calculation of diluted earnings per share. For the year ended October 31, 2023, an average of 2,119,045 outstanding options with an average exercise price of \$130.73 were excluded from the calculation of diluted earnings per share.

#### Note 23 Guarantees, commitments, pledged assets and contingencies

#### Guarantees and commitments

We use guarantees and other off-balance sheet credit instruments to meet the financing needs of our clients.

The table below summarizes our maximum exposure to credit losses related to our guarantees and commitments provided to third parties. The maximum exposure to credit risk relating to a guarantee is the maximum risk of loss if there was a total default by the guaranteed parties, without consideration of possible recoveries under recourse provisions, insurance policies or from collateral held or pledged. The maximum exposure to credit risk relating to a commitment to extend credit is the full amount of the commitment. In both cases, the maximum risk exposure is significantly greater than the amount recognized as a liability in our Consolidated Balance Sheets.

		n exposure it losses
	As	at
	October 31	October 31
(Millions of Canadian dollars)	2024	2023
Financial guarantees		
Financial standby letters of credit	\$ 27,222	\$ 23,314
Commitments to extend credit		
Backstop liquidity facilities	53,090	51,544
Credit enhancements	3,482	3,226
Documentary and commercial letters of credit	559	291
Other commitments to extend credit	321,836	301,132
Other credit-related commitments		
Securities lending indemnifications	81,347	95,055
Performance guarantees	12,283	7,503
Sponsored member guarantees	50,241	14,043
Other	446	203

Our credit review process, our policy for requiring collateral security, and the types of collateral security held are generally the same for guarantees and commitments as for loans. Our clients generally have the right to request settlement of, or draw on, our guarantees and commitments within one year. However, certain guarantees can only be drawn if specified conditions are met. These conditions, along with collateral requirements, are described below. We believe that it is highly unlikely that all or substantially all of the guarantees and commitments will be drawn or settled within one year, and contracts may expire without being drawn or settled.

#### Financial guarantees

#### Financial standby letters of credit

Financial standby letters of credit represent irrevocable assurances that we will make payments in the event that a client cannot meet its payment obligations to the third party. For certain guarantees, the guaranteed party can request payment from us even though the client has not defaulted on its obligations. These guarantees generally have a term of five to seven years.

Our policy for requiring collateral security with respect to these instruments and the types of collateral security held is generally the same as for loans. When collateral security is taken, it is determined on an account-by-account basis according to the risk of the borrower and the specifics of the transaction. Collateral security may include cash, securities and other assets pledged.

## Commitments to extend credit

#### Backstop liquidity facilities

Backstop liquidity facilities are provided to ABCP conduit programs administered by us and third parties as an alternative source of financing in the event that such programs are unable to access commercial paper markets, or in limited circumstances, when predetermined performance measures of the financial assets acquired or financed by these programs are not met. We also provide backstop liquidity facilities to certain third-party commercial mortgage securitization vehicles. The average remaining term of these liquidity facilities is approximately four years.

The terms of the backstop liquidity facilities do not require us to advance money to these programs in the event of bankruptcy or insolvency and generally do not require us to purchase non-performing or defaulted assets.

## Credit enhancements

We provide partial credit enhancement to multi-seller ABCP programs administered by us to protect commercial paper investors in the event that the collections on the underlying assets together with the transaction-specific credit enhancements or the liquidity facilities prove to be insufficient to pay for maturing commercial paper. Each of the asset pools is structured to achieve a high investment grade credit profile through credit enhancements required to be provided by the third-party sellers related to each transaction. The average remaining term of the credit facilities provided by RBC is approximately three years.

#### Documentary and commercial letters of credit

Documentary and commercial letters of credit, which are written undertakings by us on behalf of a client authorizing a third party to draw drafts on us up to a stipulated amount under specific terms and conditions, where some are collateralized based on the underlying agreement with the client and others are collateralized by cash deposits or other assets of the client.

#### Other commitments to extend credit

Commitments to extend credit represent unused portions of authorizations to extend credit in the form of loans, reverse repurchase agreements, bankers' acceptances or letters of credit where we do not have the ability to unilaterally withdraw the credit extended to the borrower.

#### Other credit-related commitments Securities lending indemnifications

In securities lending transactions, we act as an agent for the owner of a security, who agrees to lend the security to a borrower for a fee, under the terms of a pre-arranged contract. The borrower must fully collateralize the security loaned at all times. As part of this custodial business, an indemnification may be provided to securities lending customers to ensure that the fair value of securities loaned will be returned in the event that the borrower fails to return the borrowed securities and the collateral held is insufficient to cover the fair value of those securities. These indemnifications normally terminate without being drawn upon. The term of these indemnifications varies, as the securities loaned are recallable on demand. Collateral held for our securities lending transactions typically includes cash, securities that are issued or guaranteed by the Canadian government, U.S. government or other OECD countries or high quality debt or equity instruments.

#### Performance guarantees

Performance guarantees represent irrevocable assurances that we will make payments to third-party beneficiaries in the event that a client fails to perform under a specified non-financial contractual obligation. Such obligations typically include works and service contracts, performance bonds, and warranties related to international trade. The term of these guarantees can range up to three to seven years.

Our policy for requiring collateral security with respect to these instruments and the types of collateral security held is generally the same as for loans. When collateral security is taken, it is determined on an account-by-account basis according to the risk of the borrower and the specifics of the transaction. Collateral security may include cash, securities and other assets pledged.

#### Sponsored member guarantees

For certain overnight repurchase and reverse repurchase transactions, we act as a sponsoring member to eligible clients to clear transactions through the Fixed Income Clearing Corporation (FICC). We also provide a guarantee to FICC for the prompt and full payment and performance of our sponsored member clients' respective obligations under the FICC rules. The guarantees are fully collateralized by cash and securities issued or guaranteed by the U.S. government.

#### **Indemnifications**

In the normal course of our operations, we provide indemnifications which are often standard contractual terms to counterparties in transactions such as purchase and sale contracts, fiduciary, agency, licensing, custodial and service agreements, clearing system arrangements, participation as a member of exchanges, director/officer contracts and leasing transactions. These indemnification agreements may require us to compensate the counterparties for costs incurred as a result of changes in laws and regulations (including tax legislation) or as a result of litigation claims or statutory sanctions that may be suffered by the counterparty as a consequence of the transaction. The terms of these indemnification agreements vary based on the contract. The nature of the indemnification agreements prevents us from making a reasonable estimate of the maximum potential amount we could be required to pay to counterparties. Historically, we have not made any significant payments under such indemnifications.

#### Uncommitted amounts

Uncommitted amounts represent undrawn credit facilities for which we have the ability to unilaterally withdraw the credit extended to the borrower at any time. These include both retail and commercial commitments. As at October 31, 2024, the total balance of uncommitted amounts was \$470 billion (October 31, 2023 – \$398 billion).

#### Other commitments

We invest in private companies, directly or through third-party investment funds, including venture capital funds, private equity funds, Small Business Investment Companies, real estate funds and Low Income Housing Tax Credit funds. These funds are generally structured as closed-end limited partnerships wherein we hold a limited partner interest. For the year ended October 31, 2024, we have unfunded commitments of \$1,922 million (October 31, 2023 – \$1,832 million) representing the aggregate amount of cash we are obligated to contribute as capital to these partnerships under the terms of the relevant contracts.

#### Pledged assets and collateral

In the ordinary course of business, we pledge assets and enter into collateral agreements with terms and conditions that are usual and customary to our regular lending, borrowing and trading activities recorded on our Consolidated Balance Sheets. The following are examples of our general terms and conditions on pledged assets and collateral:

- The risks and rewards of the pledged assets reside with the pledgor.
- · The pledged asset is returned to the pledgor when the necessary conditions have been satisfied.
- The right of the pledgee to sell or re-pledge the asset is dependent on the specific agreement under which the collateral
  is pledged.
- If there is no default, the pledgee must return the comparable asset to the pledgor upon satisfaction of the obligation.

We are also required to provide intraday pledges to the Bank of Canada when we use a real-time electronic wire transfer system that continuously processes all Canadian dollar large-value or time-critical payments throughout the day. The pledged assets earmarked for our Canadian dollar large-value or time-critical payments are normally released back to us at the end of the settlement cycle each day. Therefore, the pledged assets amount is not included in the following table. For the year ended October 31, 2024, we had on average \$1 billion of assets pledged intraday to the Bank of Canada on a daily basis (October 31, 2023 – \$1 billion). There are infrequent occasions where we are required to take an overnight advance from the Bank of Canada to cover a settlement requirement, in which case an equivalent value of the pledged assets would be used to secure the advance. There were no overnight advances taken on October 31, 2024 and October 31, 2023.

#### Note 23 Guarantees, commitments, pledged assets and contingencies (continued)

#### Assets pledged against liabilities and collateral assets held or re-pledged

	As	at	
	October 31		October 31
(Millions of Canadian dollars)	2024		2023
Sources of pledged assets and collateral			
Bank assets			
Loans	\$ 105,577	\$	102,944
Securities	105,061		107,122
Other assets	31,583		28,953
	242,221		239,019
Client assets (1)			
Collateral received and available for sale or re-pledging	539,630		502,109
Less: not sold or re-pledged	(30,767)		(6,876)
	508,863		495,233
	\$ 751,084	\$	734,252
Uses of pledged assets and collateral			
Securities borrowing and lending	\$ 198,887	\$	168,681
Obligations related to securities sold short	46,088		46,260
Obligations related to securities loaned or sold under repurchase agreements	305,788		331,784
Securitization	39,769		38,686
Covered bonds	71,307		69,802
Derivative transactions	50,100		40,352
Foreign governments and central banks	8,469		9,111
Clearing systems, payment systems and depositories	11,261		10,709
Other	19,415		18,867
	\$ 751,084	\$	734,252

<sup>(1)</sup> Primarily relates to Obligations related to securities loaned or sold under repurchase agreements, Securities loaned and Derivative transactions.

#### Note 24 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. In many proceedings, it is inherently difficult to determine whether any loss is probable or to reliably estimate the amount of any loss. 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 provisions could be material to our results of operations in any particular period though we do not believe that the ultimate resolution of any such matter will have a material effect on our consolidated financial condition. The following is a description of our significant legal proceedings. Based on the facts currently known, except as may otherwise be noted, it is not possible at this time for us to predict the ultimate outcome of these proceedings or the timing of their resolution.

#### London interbank offered rate (LIBOR) litigation

Royal Bank of Canada and other U.S. dollar panel banks have been named as defendants in private lawsuits filed in the U.S. with respect to the setting of U.S. dollar LIBOR including a number of class action lawsuits which have been consolidated before the U.S. District Court for the Southern District of New York. The complaints in those private lawsuits assert claims against us and other panel banks under various U.S. laws, including U.S. antitrust laws, the U.S. Commodity Exchange Act, and state law. On December 30, 2021, the U.S. Court of Appeals for the Second Circuit issued an opinion affirming in part and reversing in part certain district court rulings that had dismissed a substantial portion of the consolidated class action on jurisdictional grounds and lack of standing. The Second Circuit remanded the matter to the district court for further proceedings consistent with its decision.

On July 21, 2023, Royal Bank of Canada and several other defendants executed a settlement agreement resolving the LIBOR class action brought on behalf of certain plaintiffs that purchased U.S. dollar LIBOR-based instruments. The settlement was granted final court approval on December 12, 2023.

In mid-2024, Royal Bank of Canada and several other defendants executed settlement agreements resolving the two remaining LIBOR putative class actions in which Royal Bank of Canada was a defendant. These class actions were brought on behalf of certain plaintiffs who transacted in Eurodollar futures contracts and/or related options on exchanges (the Exchange Action), and certain plaintiffs who originated or purchased LIBOR-linked loans (the Lender Action). The settlements in both the Exchange Action and Lender Action were granted final court approval on September 5, 2024 and October 17, 2024, respectively. Royal Bank of Canada remains a defendant in certain LIBOR-related individual actions.

#### Royal Bank of Canada Trust Company (Bahamas) Limited proceedings

On April 13, 2015, a French investigating judge notified Royal Bank of Canada Trust Company (Bahamas) Limited (RBC Bahamas) of the issuance of an *ordonnance de renvoi* referring RBC Bahamas and other unrelated persons to the French *tribunal correctionnel* to face the charge of complicity in estate tax fraud relating to actions taken relating to a trust for which RBC Bahamas serves as trustee. RBC Bahamas contested the charge in the French court. On January 12, 2017, the French court acquitted all parties including RBC Bahamas and on June 29, 2018, the French appellate court affirmed the acquittals. The acquittals were appealed and on January 6, 2021, the French Supreme Court issued a judgment reversing the decision of the French Court of Appeal and sent the case back to the French Court of Appeal for rehearing. The retrial before the Court of Appeal commenced on September 18, 2023 and on March 5, 2024, the Court of Appeal rendered a judgment of conviction (the Conviction) against RBC Bahamas and the other parties. RBC Bahamas was ordered by the Court of Appeal to pay a fine of €5,000 in connection with the Conviction. In addition, the Court of Appeal ordered that certain of those convicted of complicity in the matter, including RBC Bahamas, are jointly liable for the allegedly unpaid inheritance taxes owing, plus penalties and interest (such aggregate amount will be determined in separate proceedings before the tax courts, to which RBC Bahamas is not a party). RBC Bahamas believes that its actions did not violate French law and has appealed the Conviction to the French Supreme Court. Under French law, upon the filing of an appeal by RBC Bahamas, the Conviction, as well as its effects (fine and joint liability) were stayed pending the outcome of the appeal.

On October 28, 2016, Royal Bank of Canada was granted an exemption by the U.S. Department of Labor that allows Royal Bank of Canada and its current and future affiliates to continue to qualify for the Qualified Professional Asset Manager (QPAM) exemption under the Employee Retirement Income Security Act despite any potential conviction of RBC Bahamas in the French proceeding for a temporary one-year period from the date of conviction. On December 11, 2023, the U.S. Department of Labor published a technical correction to the prior one-year exemption reflecting the fact that the pending French Court of Appeal's decision would be rendered by an appellate court, and not the district court. As a result of the Conviction, the temporary one-year period commenced on March 5, 2024. Royal Bank of Canada is seeking longer term relief from the Department of Labor. In addition, the Department of Labor has proposed amendments to the QPAM exemption. If the amendments are finalized as proposed, it is unclear how they would affect Royal Bank of Canada's ability to obtain relief beyond the one-year temporary exemption period.

RBC Bahamas continues to review the trustee's and the trust's legal obligations, including liabilities and potential liabilities under applicable tax and other laws.

#### U.S. communications recordkeeping inquiry

In October 2022, our subsidiary RBC Capital Markets, LLC received a request for information and documents from the Securities and Exchange Commission (SEC) concerning compliance with records preservation requirements relating to business communications exchanged on electronic channels that have not been approved by RBC Capital Markets, LLC. RBC Capital Markets, LLC is cooperating with the SEC's inquiry. As has been publicly reported, the SEC is conducting similar inquiries into recordkeeping practices at multiple other financial institutions. On August 14, 2024, the SEC entered into a settlement with RBC Capital Markets, LLC, pursuant to which RBC Capital Markets, LLC paid a US\$45 million civil penalty.

#### U.K. Competition and Markets Authority investigation

In November 2018, the U.K. Competition and Markets Authority (CMA) started an investigation of Royal Bank of Canada and RBC Europe Limited relating to alleged anti-competitive conduct between 2009 and 2013, involving U.K. government bonds and related derivatives. In May 2023, the CMA issued a statement of objections to Royal Bank of Canada and RBC Europe Limited, and certain other financial institutions. Royal Bank of Canada and RBC Europe Limited are contesting the CMA's case.

In June 2023, RBC Europe Limited and RBC Capital Markets, LLC, among other financial institutions, were named as defendants in a putative class action filed in the U.S. by plaintiffs alleging anti-competitive conduct in the U.K. government bonds market. In September 2023, the defendants filed a motion to dismiss the complaint which motion was granted, without prejudice, in September 2024. Subsequently, on October 31, 2024, RBC Europe Limited, RBC Capital Markets, LLC and certain of the other defendants executed an agreement to dismiss the action, with prejudice, against those defendants. The settlement agreement remains subject to court approval.

#### Vacation pay class action

On December 29, 2022, the Ontario Superior Court of Justice certified a class in an action against RBC Dominion Securities Limited and RBC Dominion Securities Inc. (together, RBC DS). The action commenced in July 2020, asserting claims relating to statutory vacation pay and public holiday pay for investment advisors, associates and assistants in our Canadian Wealth Management business, with the exception of those employed in Alberta and British Columbia.

#### Other matters

We are a defendant in a number of other actions alleging that certain of our practices and actions were improper. The lawsuits involve a variety of complex issues and the timing of their resolution is varied and uncertain. Management believes that we will ultimately be successful in resolving these lawsuits, to the extent that we are able to assess them, without material financial impact to the Bank. This is, however, an area of significant judgment and the potential liability resulting from these lawsuits could be material to our results of operations in any particular period.

Various other legal proceedings are pending that challenge certain of our other practices or actions. While this is an area of significant judgment and some matters are currently inestimable, we consider that the aggregate liability, to the extent that we are able to assess it, resulting from these other proceedings will not be material to our consolidated financial position or results of operations.

#### Note 25 Related party transactions

#### Related parties

Related parties include associated companies over which we have direct or indirect control or have significant influence and post-employment benefit plans for the benefit of our employees. Related parties also include key management personnel (KMP), the Board of Directors (Directors), close family members of KMP and Directors, and entities which are, directly or indirectly, controlled by or jointly controlled by KMP, Directors or their close family members.

#### Key management personnel and Directors

KMP are defined as those persons having authority and responsibility for planning, directing and controlling our activities, directly or indirectly. They include the senior members of our organization called the Group Executive (GE). The GE is comprised of the President and Chief Executive Officer, and the Chief Officers and Group Heads, who report directly to him. The Directors do not plan, direct, or control the activities of the entity; they oversee the management of the business and provide stewardship.

#### Compensation of Key management personnel and Directors

	For the	year ended
	October 31	October 31
(Millions of Canadian dollars)	2024 (1)	2023
Salaries and other short-term employee benefits (2)	\$ 31	\$ 23
Post-employment benefits (3)	3	2
Share-based payments	67	39
	\$ 101	\$ 64

<sup>(1)</sup> During the year ended October 31, 2024, certain executives, who were members of the Bank's GE as at October 31, 2023, left the Bank and therefore were no longer part of KMP. Compensation for the year ended October 31, 2024, attributable to the former executives, including benefits and share-based payments relating to awards granted in prior years was \$13 million.

# Stock options, share-based awards and shares held by Key management personnel, Directors and their close family members

			As	at			
	October 3	31, 202	4 (1)	October 31, 2023 (2)			
(Millions of Canadian dollars, except number of units)	No. of units held		Value	No. of units held		Value	
Stock options (3) Other non-option share-based awards (3) RBC common and preferred shares	2,891,158 1,108,143 208,721	\$	161 185 35	2,805,471 991,909 181,648	\$	26 110 20	
	4,208,022	\$	381	3,979,028	\$	156	

<sup>(1)</sup> During the year ended October 31, 2024, certain executives, who were members of the Bank's GE as at October 31, 2023, left the Bank and therefore were no longer part of KMP. Total shareholdings held upon their departure was 79,445 units with a value of \$12 million.

# Transactions, arrangements and agreements involving Key management personnel, Directors and their close family members

In the normal course of business, we provide certain banking services to KMP, Directors and their close family members. These transactions were made on substantially the same terms, including interest rates and security, as for comparable transactions with persons of a similar standing and did not involve more than the normal risk of repayment or present other unfavourable features.

As at October 31, 2024, total loans to KMP, Directors and their close family members were \$16 million (October 31, 2023 – \$18 million). We have no Stage 3 allowance or provision for credit losses relating to these loans as at and for the years ended October 31, 2024 and October 31, 2023. No guarantees, pledges or commitments have been given to KMP, Directors or their close family members.

#### Joint ventures and associates

In the normal course of business, we provide certain banking and financial services to our joint ventures and associates, including loans, interest and non-interest bearing deposits. These transactions meet the definition of related party transactions and were made on substantially the same terms as for comparable transactions with third parties.

As at October 31, 2024, loans to joint ventures and associates were \$184 million (October 31, 2023 – \$217 million) and deposits from joint ventures and associates were \$58 million (October 31, 2023 – \$77 million). We have no stage 3 allowance or provision for credit losses relating to loans to joint ventures and associates as at and for the years ended October 31, 2024 and October 31, 2023. \$1 million of guarantees have been given to joint ventures and associates for the year ended October 31, 2024 (October 31, 2023 – \$1 million).

<sup>(2)</sup> Includes the portion of the annual variable short-term incentive bonus that certain executives elected to receive in the form of DSUs. Refer to Note 20 for further details. Directors receive retainers but do not receive salaries and other short-term employee benefits.

<sup>(3)</sup> Directors do not receive post-employment benefits.

<sup>(2)</sup> During the year ended October 31, 2023, certain directors, who were members of the Board of Directors as at October 31, 2022, retired. Total shareholdings and options held upon their departure was 32,958 units with a value of \$4 million.

<sup>(3)</sup> Directors do not receive stock options or any other non-option share-based awards.

#### Other transactions, arrangements or agreements involving joint ventures and associates

	 As at or for th	ne ye	ar ended
	October 31		October 31
(Millions of Canadian dollars)	2024		2023
Commitments and other contingencies	\$ 1,226	\$	1,089
Other fees received for services rendered	73		55
Other fees paid for services received	119		108

#### Note 26 Results by business segment

#### Composition of business segments

For management purposes, based on the products and services offered, we are organized into five business segments: Personal Banking, Commercial Banking, Wealth Management, Insurance and Capital Markets. Effective the fourth quarter of 2024, the Personal & Commercial Banking segment became two standalone business segments: Personal Banking and Commercial Banking. With this change, RBC Direct Investing moved from the previous Personal Banking segment to the Wealth Management segment. From a reporting perspective, there were no changes to our Capital Markets and Insurance segments. Comparative results have been revised to conform to our new basis of segment presentation.

Personal Banking provides a broad suite of financial products and services to retail clients for their day-to-day banking, investing and financing needs through three geographies: Canada, the Caribbean and the U.S. In Canada, we provide a broad suite of financial products and services through our large branch network, ATMs, and mobile sales network. In the Caribbean and the U.S., we offer a broad range of financial products and services in targeted markets. Non-interest income in Personal Banking mainly comprises Mutual fund revenue, Service charges and Card service revenue.

Commercial Banking offers a wide range of lending, deposit and transaction banking products and services to Canadian companies and foreign businesses in Canada at every stage of their business lifecycle through digital solutions, customized banking advice and services by experienced advisors, relationship managers and our broad team of specialists. Non-interest income in Commercial Banking mainly comprises Service charges, Credit fees, and Foreign exchange revenue, other than trading.

Wealth Management primarily serves high net worth and ultra-high net worth individual and institutional clients with a comprehensive suite of advice-based solutions and investment strategies, as well as personalized banking relationships and self-directed investment service through our lines of businesses in Canada, the U.S., the U.K., Europe and Asia, including Canadian Wealth Management, U.S. Wealth Management (including City National), Global Asset Management, International Wealth Management, and Investor Services. Non-interest income in Wealth Management mainly comprises Investment management and custodial fees, Mutual fund revenue and Securities brokerage commissions.

Insurance has operations in Canada and globally providing a wide range of advice and solutions for individual and business clients including life, health, wealth, property & casualty, travel, group benefits, annuities, and reinsurance. We offer our products and services through a wide variety of channels, comprised of mobile advisors, advice centres, RBC Insurance® stores and digital platforms, as well as through independent brokers and partners. We also operate in reinsurance and retrocession markets globally offering life, critical illness, disability and longevity reinsurance products. Non-interest income in Insurance primarily comprises Insurance service result and Insurance investment result.

Capital Markets provides expertise in advisory & origination, sales & trading, lending & financing and transaction banking to corporations, institutional clients, asset managers, private equity firms and governments globally in our two main business lines: Corporate & Investment Banking and Global Markets. In North America, we offer a full suite of products and services which include equity and debt origination and distribution, advisory services, and sales & trading. Outside North America, we have a targeted strategic presence in the U.K. & Europe, Australia, Asia & other markets aligned to our global expertise. In the U.K. & Europe, we offer a diversified set of capabilities in key industry sectors of focus. In Australia and Asia, we compete with global and regional investment banks in targeted areas aligned to our global expertise, including fixed income distribution and currencies trading, secured financing, as well as corporate and investment banking. Non-interest income in Capital Markets mainly includes Underwriting and other advisory fees, Trading revenue and Credit fees.

All other enterprise level activities that are not allocated to these five business segments, such as certain treasury and liquidity management activities, including amounts associated with unattributed capital, and consolidation adjustments, including the elimination of the taxable equivalent basis (teb) gross-up amounts, are included in Corporate Support. Teb adjustments gross up income from certain tax-advantaged sources from Canadian taxable corporate dividends received on or before December 31, 2023 and U.S. tax credit investments recorded in Capital Markets to their effective tax equivalent value with the corresponding offset recorded in the provision for income taxes. Management believes that these teb adjustments are necessary for Capital Markets to reflect how it is managed and enhances the comparability of revenue across our taxable and tax-advantaged sources. Our use of teb adjustments may not be comparable to similarly adjusted amounts at other financial institutions. The teb adjustment for the year ended October 31, 2024 was \$294 million (October 31, 2023 – \$559 million). Gains (losses) on economic hedges of our U.S. Wealth Management (including City National) share-based compensation plans, which are reflected in revenue, and related variability in share-based compensation expense driven by changes in the fair value of liabilities relating to these plans are also included in Corporate Support as this presentation more closely aligns with how we view business performance and manage the underlying risks.

### Geographic segments

For geographic reporting, our segments are grouped into Canada, the U.S. and Other International. Transactions are primarily recorded in the location that best reflects the risk due to negative changes in economic conditions and prospects for growth due to positive economic changes. This location frequently corresponds with the location of the legal entity through which the business is conducted and the location of our clients. Transactions are recorded in the local currency and are subject to foreign exchange rate fluctuations with respect to the movement in the Canadian dollar.

Personal Commercial

#### Management reporting framework

Our management reporting framework is intended to measure the performance of each business segment as if it were a standalone business and reflects the way that the business segment is managed. This approach is intended to ensure that our business segments' results include all applicable revenue and expenses associated with the conduct of their business and depicts how management views those results. We regularly monitor these segment results for the purpose of making decisions about resource allocation and performance assessment. These items do not impact our consolidated results.

The expenses in each business segment may include costs or services directly incurred or provided on their behalf at the enterprise level. For other costs not directly attributable to one of our business segments, we use a management reporting framework that uses assumptions and methodologies for allocating overhead costs and indirect expenses to our business segments and that assists in the attribution of capital and the transfer pricing of funds to our business segments in a manner that consistently measures and aligns the economic costs with the underlying benefits and risks of that specific business segment. Activities and business conducted between our business segments are generally at market rates. All other enterprise level activities that are not allocated to our five business segments are reported under Corporate Support.

Our assumptions and methodologies used in our management reporting framework are periodically reviewed by us to ensure that they remain valid. The capital attribution methodologies involve a number of assumptions that are revised periodically.

Wealth

For the year ended October 31, 2024

Capital Corporate

United

Other

(Millions of Canadian dollars)		Personal anking (1)			Weall Management (		Insurance	Capital Markets (1), (2)		orporate	Total	Canada	United States In	Other ternational
Net interest income (3)		12,438		6,061						1,292 \$	27,953 \$			1,404
Non-interest income		4,904		1,321	14,64	7	1,224	8,829		(1,534)	29,391	13,566	10,766	5,059
Total revenue		17,342		7,382	19,62		1,224	12,012		(242)	57,344	35,847	15,034	6,463
Provision for credit losses Non-interest expense		1,802 7,485		975 2,512	2 15,31		2 285	424 7,016		1,640	3,232 34,250	2,876 17,321	276 12,553	4,376
Net income (loss) before		7,100						7,010		.,	3 .,230	.,,,,,,,	. 2,555	1,5 7 0
income taxes		8,055		3,895	4,28	5	937	4,572		(1,882)	19,862	15,650	2,205	2,007
Income taxes (recoveries)		2,134		1,077	86	3	208	(1)	)	(659)	3,622	4,384	(675)	(87)
Net income	\$	5,921	\$	2,818	\$ 3,42	2 \$	729	\$ 4,573	\$	(1,223)\$	16,240 \$	11,266 \$	2,880 \$	2,094
Non-interest expense includes: Depreciation and amortization Impairment of other intangibles	\$	1,105	\$	62	\$ 1,22 2		s 6 2	\$ 528 22	\$	(11)\$	2,913 \$	1,747 \$ 44	846 \$	320
	_			7.4.40		2 4	20.200			07.050.44				
Total assets	\$ :	555,029	\$ 18	37,142	\$ 184,50	3 \$	5 29,288	\$ 1,127,661	\$	87,959 \$.	2,1/1,582 \$	1,205,561 \$	615,/4/ \$	350,2/4
Total assets include: Additions to premises and equipment and intangibles	\$	2,274	\$	740	\$ 88	7 \$	5 11	\$ 494	\$	680 \$	5,086 \$	4,005 \$	769 \$	312
Total liabilities	S	554,970	\$ 18	87 135	\$ 183.05	5 \$	29 158	\$ 1,127,564	Ś	(37 492) \$	2 044 390			
Total Habilities	Ψ.	,,,,,	Ÿ 10	,,,,,,	103,03	<i>3</i>	2),130	7 1,127,301	Ÿ	(37,172) 4	2,011,370			
						F	or the year	ended October 3	31, 20	023 (Restated	– Note 2)			
(Millions of Canadian dollars)	—	Personal			Weali Management (4	h		Capital	C	Corporate	,	Canada	United States Ir	Other nternational
(Millions of Canadian dollars)  Net interest income (3)	Вс \$	Personal anking (4) 10,945	Ban		Management (4	:h 1)	Insurance	Capital Markets (2)	Su	•	Total 25,129 \$	Canada 18,752 \$	States Ir	Other nternational
(Millions of Canadian dollars)  Net interest income (3)  Non-interest income		anking (4)	Ban	king (4)	Management (4	h 1) 1	Insurance	Capital Markets (2)	Su	Corporate ipport (2)	Total		States Ir	nternational
Net interest income (3) Non-interest income Total revenue		10,945 4,526 15,471	Ban	4,771 1,261 6,032	\$ 4,85 13,30 18,16	h 3 \$ 8	Insurance –	Capital Markets (2) \$ 3,379 7,672 11,051	Su	1,181 \$ (1,442)	Total 25,129 \$ 26,335 51,464	18,752 \$ 12,241 30,993	5,065 \$ 8,563	1,312 5,531 6,843
Net interest income (3) Non-interest income Total revenue Provision for credit losses		10,945 4,526 15,471 1,264	Ban	4,771 1,261 6,032 315	Management (4 \$ 4,85 13,30 18,16 32	h 3 \$ 8	Insurance 5 – 1,010 1,010	Capital Markets (2) \$ 3,379 7,672 11,051 561	Su	Corporate proport (2)  1,181 \$ (1,442)  (261)	Total 25,129 \$ 26,335 51,464 2,468	18,752 \$ 12,241 30,993 1,648	5,065 \$ 8,563 13,628 784	1,312 5,531 6,843 36
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense		10,945 4,526 15,471	Ban	4,771 1,261 6,032	\$ 4,85 13,30 18,16	h 3 \$ 8	Insurance 5 – 1,010	Capital Markets (2) \$ 3,379 7,672 11,051	Su	1,181 \$ (1,442)	Total 25,129 \$ 26,335 51,464	18,752 \$ 12,241 30,993	5,065 \$ 8,563	1,312 5,531 6,843
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense Net income (loss) before income taxes		10,945 4,526 15,471 1,264 6,813 7,394	\$	4,771 1,261 6,032 315 2,143	Management (4 \$ 4,85 13,30 18,16 32 14,38 3,44	1h 3 \$ 8 1 8 7	1,010 1,010 1,010 293	Capital Markets (2) \$ 3,379 7,672 11,051 561 6,509	Su \$	Corporate (2)  1,181 \$ (1,442)  (261)  668	Total 25,129 \$ 26,335 51,464 2,468 30,813	18,752 \$ 12,241 30,993 1,648 14,972	5,065 \$ 8,563	1,312 5,531 6,843 36 4,664
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense Net income (loss) before income taxes Income taxes (recoveries)	\$	10,945 4,526 15,471 1,264 6,813 7,394 1,976	\$	4,771 1,261 6,032 315 2,143 3,574 992	Management (4 \$ 4,85 13,30 18,16 32 14,38 3,44 75	3 \$ 8 1 8 7	1,010 1,010 1,010 - 293	Capital Markets (2) 3,379 7,672 11,051 561 6,509 3,981 (158)	\$ \$	Corporate (2)  1,181 \$ (1,442)  (261)  - 668  (929) (160)	Total  25,129 \$ 26,335  51,464 2,468 30,813  18,183 3,571	18,752 \$ 12,241 30,993 1,648 14,972 14,373 4,707	\$tates Ir 5,065 \$ 8,563 13,628 784 11,177 1,667 (1,103)	1,312 5,531 6,843 36 4,664 2,143 (33)
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense Net income (loss) before income taxes		10,945 4,526 15,471 1,264 6,813 7,394	\$	4,771 1,261 6,032 315 2,143	Management (4 \$ 4,85 13,30 18,16 32 14,38 3,44 75	3 \$ 8 1 8 7	1,010 1,010 1,010 - 293	Capital Markets (2) 3,379 7,672 11,051 561 6,509 3,981 (158)	\$ \$	Corporate (2)  1,181 \$ (1,442)  (261)  668	Total 25,129 \$ 26,335 51,464 2,468 30,813	18,752 \$ 12,241 30,993 1,648 14,972	\$tates Ir 5,065 \$ 8,563 13,628 784 11,177 1,667 (1,103)	1,312 5,531 6,843 36 4,664
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense Net income (loss) before income taxes Income taxes (recoveries)	\$	10,945 4,526 15,471 1,264 6,813 7,394 1,976	\$ \$	4,771 1,261 6,032 315 2,143 3,574 992	Management (4 \$ 4,85 13,30 18,16 32 14,38 3,44 75 \$ 2,69	1	Insurance 3	Capital Markets (2) \$ 3,379 7,672 11,051 561 6,509 3,981 (158) \$ 4,139	\$ ( Su \$ ) ( ) ( ) ( )	Corporate (2)  1,181 \$ (1,442)  (261)  - 668  (929) (160)	Total  25,129 \$ 26,335  51,464 2,468 30,813  18,183 3,571	18,752 \$ 12,241 30,993 1,648 14,972 14,373 4,707	States Ir 5,065 \$ 8,563  13,628 784 11,177  1,667 (1,103) 2,770 \$	1,312 5,531 6,843 36 4,664 2,143 (33)
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense Net income (loss) before income taxes Income taxes (recoveries) Net income Non-interest expense includes: Depreciation and amortization Impairment of other	\$	10,945 4,526 15,471 1,264 6,813 7,394 1,976 5,418	\$ \$ \$	king (4) 4,771 1,261 6,032 315 2,143 3,574 992 2,582 4	Management (4) \$ 4,85 13,30 18,16 32 14,38 3,44 75 \$ 2,69 \$ 1,24	3 \$ 8 1 8 7 6 3 3 \$ 0 \$ 1	Insurance 1,010 1,010 293 717 168 5 549	Capital Markets (2) 3,379 7,672 11,051 561 6,509 3,981 (158) 4,139 5 509	\$ \$ \$ \$	Corporate (2)  1,181 \$ (1,442)  (261)  - 668  (929) (160)  (769) \$	Total  25,129 \$ 26,335  51,464 2,468 30,813  18,183 3,571 14,612 \$	18,752 \$ 12,241 30,993 1,648 14,972 14,373 4,707 9,666 \$ 1,554 \$	States Ir 5,065 \$ 8,563  13,628 784 11,177  1,667 (1,103) 2,770 \$  836 \$ 65	1,312 5,531 6,843 36 4,664 2,143 (33) 2,176
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense Net income (loss) before income taxes Income taxes Income Non-interest expense includes: Depreciation and amortization Impairment of other intangibles	\$	10,945 4,526 15,471 1,264 6,813 7,394 1,976 5,418	\$ \$ \$ \$ \$ 1.	king (4) 4,771 1,261 6,032 315 2,143 3,574 992 2,582 4	Management (4 \$ 4,85 13,30 18,16 32 14,38 3,44 75 \$ 2,69 \$ 1,24 8 \$ 180,78	1	Insurance 1,010 1,010 293 717 168 549 42 1 524,130	Capital Markets (2)  3,379 7,672 11,051 561 6,509 3,981 (158) 4,139 5 509 2 1,100,172	\$ \$ \$ \$	Corporate (2)  1,181 \$ (1,442)  (261)  - 668  (929) (160)  (769) \$	Total  25,129 \$ 26,335  51,464 2,468 30,813  18,183 3,571 14,612 \$  2,746 \$ 108	18,752 \$ 12,241 30,993 1,648 14,972 14,373 4,707 9,666 \$ 1,554 \$	States Ir 5,065 \$ 8,563  13,628 784 11,177  1,667 (1,103) 2,770 \$  836 \$ 65  639,296 \$	1,312 5,531 6,843 36 4,664 2,143 (33) 2,176
Net interest income (3) Non-interest income Total revenue Provision for credit losses Non-interest expense Net income (loss) before income taxes Income taxes Income taxes Income taxes Income taxes Income Non-interest expense includes: Depreciation and amortization Impairment of other intangibles Total assets Total assets include: Additions to premises and equipment and	\$ \$ \$	10,945 4,526 15,471 1,264 6,813 7,394 1,976 5,418 951 13	\$ \$ \$ \$ \$ \$ \$ \$	king (4) 4,771 1,261 6,032 315 2,143 3,574 992 2,582 4 - 35,959	Management (4) \$ 4,85 13,30 18,16 32 14,38 3,44 75 \$ 2,69 \$ 1,24 8 \$ 180,78	(h) 1 3 \$ 8 1 8 7 6 3 3 \$ 1 1 1 \$	Insurance 1,010 1,010 293 717 168 549 42 1 524,130	Capital Markets (2)  3,379 7,672 11,051 561 6,509 3,981 (158) 4,139 5 509 2 5 1,100,172	\$ \$ \$	Corporate apport (2)  1,181 \$ (1,442)  (261)  668  (929) (160)  (769) \$  - \$  11  66,956 \$	Total  25,129 \$ 26,335  51,464 2,468 30,813  18,183 3,571  14,612 \$  2,746 \$ 108  2,006,531 \$	18,752 \$ 12,241 30,993 1,648 14,972 14,373 4,707 9,666 \$ 1,554 \$ 28 1,043,737 \$	States Ir 5,065 \$ 8,563  13,628 784 11,177  1,667 (1,103) 2,770 \$  836 \$ 65  639,296 \$	1,312 5,531 6,843 36 4,664 2,143 (33) 2,176 356 15 323,498

- On March 28, 2024, we completed the HSBC Canada transaction. HSBC Canada results have been consolidated from the closing date, and are included in our Personal (1) Banking, Commercial Banking, Wealth Management and Capital Markets segments. For further details, refer to Note 6
- Taxable equivalent basis
- Interest revenue is reported net of interest expense as we rely primarily on net interest income as a performance measure.
- (4)Amounts have been revised from those previously presented to conform to our new basis of segment presentation

#### Note 27 Nature and extent of risks arising from financial instruments

We are exposed to credit, market and liquidity and funding risks as a result of holding financial instruments. Our risk measurement and objectives, policies and methodologies for managing these risks are disclosed in the shaded text along with those tables specifically marked with an asterisk (\*) in the Credit risk section of Management's Discussion and Analysis. These shaded text and tables are an integral part of these Consolidated Financial Statements.

Concentrations of credit risk exist if a number of our counterparties are engaged in similar activities, are located in the same geographic region or have comparable economic characteristics such that their ability to meet contractual obligations would be similarly affected by changes in economic, political or other conditions.

Concentrations of credit risk indicate the relative sensitivity of our performance to developments affecting a particular industry or geographic location. The amounts of credit exposure associated with certain of our on- and off-balance sheet financial instruments are summarized in the following tables.

	As at October 31, 2024														
(Millions of Canadian dollars, except percentage amounts)	Canada	%	United States	%		Europe	%	Other International	%	Total					
On-balance sheet assets other than derivatives (1) Derivatives before master netting	\$ 897,614	67%	\$ 297,335	22%	\$	88,394	7%	\$ 54,912	4%	\$1,338,255					
agreements (2), (3)	21,555	14%	47,204	31%		71,198	46%	13,276	9%	153,233					
	\$ 919,169	61%	\$ 344,539	23%	\$	159,592	11%	\$ 68,188	5%	\$ 1,491,488					
Off-balance sheet credit instruments (4)															
Committed and uncommitted (5)	\$ 487,142	57%	\$ 282,907	34%	\$	51,516	6%	\$ 27,615	3%	\$ 849,180					
Other	82,910	48%	67,322	39%		18,162	11%	3,145	2%	171,539					
	\$ 570,052	56%	\$ 350,229	34%	\$	69,678	7%	\$ 30,760	3%	\$1,020,719					

	As at October 31, 2023														
(Millions of Canadian dollars, except percentage amounts)		Canada	%		United States	%		Europe	%	Inter	Other rnational	%		Total	
On-balance sheet assets other than derivatives (1) Derivatives before master netting	\$	798,259	66%	\$	294,670	24%	\$	76,637	6%	\$	50,147	4%	\$	1,219,713	
agreements (2), (3)		27,221	19%		36,698	25%		67,406	46%		14,470	10%		145,795	
	\$	825,480	60%	\$	331,368	24%	\$	144,043	11%	\$	64,617	5%	\$	1,365,508	
Off-balance sheet credit instruments (4)															
Committed and uncommitted (5)	\$	427,849	56%	\$	252,071	33%	\$	51,393	8%	\$	23,183	3%	\$	754,496	
Other		85,222	61%		30,737	22%		21,428	15%		2,731	2%		140,118	
	\$	513,071	57%	\$	282,808	32%	\$	72,821	8%	\$	25,914	3%	\$	894,614	

<sup>(1)</sup> Includes Assets purchased under reverse repurchase agreements and securities borrowed, Loans and Customers' liability under acceptances. The largest concentrations in Canada are Ontario at 57% (October 31, 2023 – 57%), Alberta, Saskatchewan and Manitoba at 13% (October 31, 2023 – 15%), British Columbia and the territories at 16% (October 31, 2023 – 14%) and Quebec at 10% (October 31, 2023 – 10%). No industry accounts for more than 20% (October 31, 2023 – 20%) of total on-balance sheet credit instruments, with the exception of Banking, which accounted for 24% (October 31, 2023 – 25%), and Government, which accounted for 28% (October 31, 2023 – 28%). The classification of our sectors aligns with our view of credit risk by industry.

- (2) A further breakdown of our derivative exposures by risk rating and counterparty type is provided in Note 9.
- (3) Excludes valuation adjustments determined on a pooled basis.
- (4) Balances presented are contractual amounts representing our maximum exposure to credit risk.
- (5) Represents our maximum exposure to credit risk. Retail and wholesale commitments respectively comprise 40% and 60% of our total commitments (October 31, 2023 44% and 56%). The largest concentrations in the wholesale portfolio relate to Financial services at 14% (October 31, 2023 15%), Real estate and related at 12% (October 31, 2023 12%), Investments at 10% (October 31, 2023 6%), Utilities at 10% (October 31, 2023 11%), and Other services at 7% (October 31, 2023 8%). The classification of our sectors aligns with our view of credit risk by industry.

## Note 28 Capital management

### Regulatory capital and capital ratios

OSFI formally establishes risk-based capital and leverage minimums and Total Loss Absorbing Capacity (TLAC) ratios for deposit-taking institutions in Canada. We are required to calculate our capital ratios using the Basel III framework. Under Basel III, regulatory capital includes Common Equity Tier 1 (CET1), Tier 1 and Tier 2 capital. CET1 capital mainly consists of common shares, retained earnings and other components of equity. Regulatory adjustments under Basel III include deductions of goodwill and other intangibles, certain deferred tax assets, defined benefit pension fund assets, investments in banking, financial and insurance entities, the shortfall of provisions to expected losses, prudential valuation adjustments, prepaid portfolio insurance assets, non payment and non delivery of trades and equity investment in funds subject to the fall-back approach. Tier 1 capital comprises predominantly CET1 and Additional Tier 1 items including non-cumulative preferred shares and LRCNs that meet certain criteria. Tier 2 capital includes subordinated debentures that meet certain criteria, certain loan loss allowances and non-controlling interests in subsidiaries' Tier 2 instruments. Total capital is the sum of Tier 1 and Tier 2 capital. TLAC available is defined as the sum of Total capital and external TLAC instruments. External TLAC instruments comprise predominantly senior bail-in debt, which includes eligible senior unsecured debt with an original term to maturity of greater than 400 days and remaining term to maturity of greater than 365 days.

#### Note 28 Capital management (continued)

Regulatory capital ratios are calculated by dividing CET1, Tier 1, Total capital and TLAC available by risk-weighted assets. The leverage ratio is calculated by dividing Tier 1 capital by an exposure measure. The exposure measure consists of total assets (excluding items deducted from Tier 1 capital) and certain off-balance sheet items converted into credit exposure equivalents. Adjustments are also made to derivatives and secured financing transactions to reflect credit and other risks. The TLAC leverage ratio is calculated by dividing TLAC available by the leverage ratio exposure.

During 2024 and 2023, we complied with all applicable capital, leverage and TLAC requirements, including the domestic stability buffer, imposed by OSFI.

		As	s at				
		October 31	October 31				
(Millions of Canadian dollars, except percentage amounts and as otherwise noted)		2024	2023				
<b>Capital</b> (1), (2)							
CET1 capital		\$ 88,936	\$ 86,611				
Tier 1 capital		97,952	93,904				
Total capital		110,487	104,952				
Risk-weighted assets (RWA) used in calculation of capital ratios (1), (2)							
Credit risk		\$ 548,809	\$ 475,842				
Market risk		33,930	40,498				
Operational risk		89,543	79,883				
Total RWA		\$ 672,282	\$ 596,223				
Capital ratios and Leverage ratio (1), (2)							
CET1 ratio		13.2%	14.5%				
Tier 1 capital ratio		14.6%	15.7%				
Total capital ratio		16.4%	17.6%				
Leverage ratio		4.2%	4.3%				
Leverage ratio exposure		\$ 2,344,228	\$ 2,179,590				
TLAC available and ratios (1), (3)							
TLAC available		\$ 196,659	\$ 184,916				
TLAC ratio		29.3%	31.0%				
TLAC leverage ratio		8.4%	8.5%				
(4) A	leter resided DMA	:	TI A.C.				

- (1) As prior period restatements are not required by OSFI, there was no impact from the adoption of IFRS 17 on regulatory capital, RWA, capital ratios, leverage ratio, TLAC available and TLAC ratios for periods prior to November 1, 2023.
- (2) Capital, RWA, and capital ratios are calculated using OSFI's Capital Adequacy Requirements (CAR) guideline and the Leverage ratio is calculated using OSFI's Leverage Requirements (LR) guideline. Both the CAR guideline and LR guideline are based on the Basel III framework. The results for the year ended October 31, 2023 reflect our adoption of the revised CAR and LR guidelines that came into effect in the second quarter of 2023, as further updated on October 20, 2023 as part of OSFI's implementation of the Basel III reforms. The results for the year ended October 31, 2024 also reflect our adoption of the revised market risk and CVA frameworks that came into effect on November 1, 2023.
- (3) TLAC available and TLAC ratios are calculated using OSFI's TLAC guideline. The TLAC standard is applied at the resolution entity level which for us is deemed to be Royal Bank of Canada and its subsidiaries. A resolution entity and its subsidiaries are collectively called a resolution group. The TLAC ratio and TLAC leverage ratio are calculated using the TLAC available as a percentage of total RWA and leverage exposure, respectively.

#### Note 29 Offsetting financial assets and financial liabilities

Offsetting within our Consolidated Balance Sheets may be achieved where financial assets and liabilities are subject to master netting arrangements that provide the currently enforceable right of offset and where there is an intention to settle on a net basis, or realize the assets and settle the liabilities simultaneously. For derivative contracts and repurchase and reverse repurchase arrangements, this is generally achieved when there is a market mechanism for settlement (e.g., central counterparty exchange or clearing house) which provides daily net settlement of cash flows arising from these contracts. Margin receivables and margin payables are generally offset as they settle simultaneously through a market settlement mechanism.

Amounts that do not qualify for offsetting include master netting arrangements that only permit outstanding transactions with the same counterparty to be offset in an event of default or occurrence of other predetermined events. Such master netting arrangements include the International Swaps and Derivatives Association Master Agreement or certain derivative exchange or clearing counterparty agreements for derivative contracts, global master repurchase agreements and global master securities lending agreements for repurchase, reverse repurchase and other similar secured lending and borrowing arrangements.

The amount of financial collateral received or pledged subject to master netting arrangements or similar agreements that do not qualify for offsetting refers to the collateral received or pledged to cover the net exposure between counterparties by enabling the collateral to be realized in an event of default or the occurrence of other predetermined events. Certain amounts of collateral are restricted from being sold or re-pledged unless there is an event of default or the occurrence of other predetermined events.

The following tables provide the financial instrument amounts that have been offset on the Consolidated Balance Sheets and the amounts that do not qualify for offsetting but are subject to enforceable master netting arrangements or similar agreements. The amounts presented are not intended to represent our actual exposure to credit risk.

## Financial instruments subject to enforceable master netting arrangements or similar agreements

						- 6									
							As c	t October 3	1, 2024						
				Amounts su	bjec	t to enforceable n	etti	ng arranger	nents						
							o	ffset on the	d amounts not Consolidated nce Sheets (1)						
(Millions of Canadian dollars)	of	ess amounts recognized financial instruments	O Co	ess amounts ffset on the onsolidated ance Sheets		Net amounts presented in the Consolidated Balance Sheets	а	Impact of master netting greements	Financial collateral (2)	Nel	amounts		Amounts not subject to enforceable netting rangements	Co	et amounts presented on the onsolidated ince Sheets
Financial assets Assets purchased under reverse repurchase agreements and															
securities borrowed Derivative assets Other financial assets	\$	495,881 145,420 2,940	\$	145,078 1,568 527	\$	350,803 143,852 2,413	\$	112 105,433 58	\$ 349,044 16,806 288	\$	1,647 21,613 2,067	\$	6,760 –	\$	350,803 150,612 2,413
	Ś	644,241	Ś	147,173	\$	497,068	Ś	105,603	\$ 366,138	Ś	25,327	Ś	6,760	Ś	503,828
Financial liabilities Obligations related to assets sold under repurchase agreements	·	, , , , , , , , , , , , , , , , , , ,	,	,		,		,			.,	<u> </u>	,,	, ,	, ,
and securities loaned Derivative liabilities Other financial liabilities	\$	450,399 151,564 1,941	\$	145,078 1,568 527	\$	305,321 149,996 1,414	\$	112 105,433 58	\$ 302,779 17,727	\$	2,430 26,836 1,356	\$	13,767 –	\$	305,321 163,763 1,414
	\$	603,904	\$	147,173	\$	456,731	\$	105,603	\$ 320,506	\$	30,622	\$	13,767	\$	470,498

_															
				Amounts s	ubje	ct to enforceable n	ettir	ng arrangem	ents						
								offset on the	Co	nounts not nsolidated Sheets (1)					
(Millions of Canadian dollars)	C	Gross amounts of recognized financial instruments	C	oss amounts offset on the consolidated ance Sheets		Net amounts presented in the Consolidated Balance Sheets	(	Impact of master netting agreements	col	Financial llateral (2)	Ne	t amounts	Amounts not subject to enforceable netting irrangements	c	Net amounts presented on the consolidated ance Sheets
Financial assets Assets purchased under reverse repurchase agreements and															
securities borrowed Derivative assets Other financial assets	\$	436,617 138,318 3,306	\$	96,676 1,544 443	\$	339,941 136,774 2,863	\$	201 89,889 19	\$	336,112 22,310 421	\$	3,628 24,575 2,423	\$ 250 5,676 -	\$	340,191 142,450 2,863
	\$	578,241	\$	98,663	\$	479,578	\$	90,109	\$	358,843	\$	30,626	\$ 5,926	\$	485,504
Financial liabilities Obligations related to assets sold under repurchase agreements								·		·					
and securities loaned Derivative liabilities Other financial liabilities	\$	427,330 132,770 1,475	\$	96,676 1,544 443	\$	330,654 131,226 1,032	\$	201 89,889 19	\$	325,674 17,340 -	\$	4,779 23,997 1,013	\$ 4,584 11,403	\$	335,238 142,629 1,032
	\$	561,575	\$	98,663	\$	462,912	\$	90,109	\$	343,014	\$	29,789	\$ 15,987	\$	478,899

<sup>(1)</sup> Financial collateral is reflected at fair value. The financial instrument amounts and financial collateral disclosed are limited to the net balance sheet exposure, and any over-collateralization is excluded from the table.

<sup>(2)</sup> Includes cash collateral of \$14 billion (October 31, 2023 – \$17 billion) and non-cash collateral of \$352 billion (October 31, 2023 – \$342 billion) received for financial assets and cash collateral of \$14 billion (October 31, 2023 – \$15 billion) and non-cash collateral of \$307 billion (October 31, 2023 – \$328 billion) pledged for financial liabilities.

#### Note 30 Recovery and settlement of on-balance sheet assets and liabilities

The table below presents an analysis of assets and liabilities recorded on our Consolidated Balance Sheets by amounts to be recovered or settled within one year and after one year, as at the balance sheet date, based on contractual maturities and certain other assumptions outlined in the footnotes below. As warranted, we manage the liquidity risk of various products based on historical behavioural patterns that are often not aligned with contractual maturities. Amounts to be recovered or settled within one year, as presented below, may not be reflective of our long-term view of the liquidity profile of certain balance sheet categories.

					As	at					
	October 31, 2024			October 31, 2023 (Restated – Note 2)							
	Within one		After one			W	ithin one		After one		
(Millions of Canadian dollars)	year		year		Total		year		year		Total
Assets											
Cash and due from banks (1)	\$ 55,003	\$	1,720	\$	56,723	\$	59,793	\$	2,196	\$	61,989
Interest-bearing deposits with											
banks	66,020		-		66,020		71,086		_		71,086
Securities											
Trading (2)	170,460		12,840		183,300		180,929		9,222		190,151
Investment, net of applicable	45 440		211 200		256.640		22.262		106 216		210 570
allowance	45,418		211,200		256,618		33,363		186,216		219,579
Assets purchased under reverse repurchase agreements and											
securities borrowed	350,622		181		350,803		336,437		3,754		340,191
Loans	330,022		101		330,803		330,437		3,734		340,191
Retail	174,761		452,217		626,978		120,247		449,704		569,951
Wholesale	89,492		270,947		360,439		76,249		211,577		287,826
Allowance for loan losses	05,152		2,0,5.7		(6,037)		70,219		211,377		(5,004)
Other					(=,===,						(=,===)
Customers' liability under											
acceptances	24		11		35		21,690		5		21,695
Derivatives (2)	148,605		2,007		150,612		140,261		2,189		142,450
Premises and equipment	156		6,696		6,852		65		6,684		6,749
Goodwill	-		19,286		19,286		_		12,594		12,594
Other intangibles	_		7,798		7,798		_		5,903		5,903
Other assets	69,263		22,892		92,155		61,346		20,025		81,371
	\$ 1,169,824	\$ 1	1,007,795	\$	2,171,582	\$ ^	,101,466	\$	910,069	\$	2,006,531
Liabilities											
Deposits (3)	\$ 1,144,860	\$	264,671	\$	1,409,531	\$	991,484	\$	240,203	\$	1,231,687
Other											
Acceptances	24		11		35		21,740		5		21,745
Obligations related to securities											
sold short	32,824		2,462		35,286		32,602		1,049		33,651
Obligations related to assets sold											
under repurchase agreements	204.055		466		205 224		224050		270		225 220
and securities loaned Derivatives (2)	304,855 158,622		466 5,141		305,321 163,763		334,959 131,352		279 11,277		335,238 142,629
Insurance contract liabilities (4)	459		21,772		22,231		395		18,631		19.026
Other liabilities	70,475		24,202		94,677		69,187		26,835		96,022
Subordinated debentures	70,473		13,546		13,546		02,107		11,386		11,386
Saboramatea depentares	6 1 712 110	Ċ		<u>_</u>	· · · · · · · · · · · · · · · · · · ·	٠ ,		ć		<u> </u>	
	\$ 1,712,119	\$	332,2/1	\$	2,044,390	\$	,581,719	\$	309,665	\$	1,891,384

<sup>(1)</sup> Cash and due from banks are assumed to be recovered within one year, except for cash balances not available for use by the Bank beyond one year.

<sup>(2)</sup> Trading securities classified as FVTPL and trading derivatives are presented as within one year as this best represents in most instances the short-term nature of our trading activities, except for debt securities relating to the Insurance segment which are presented based on contractual maturity. Trading securities designated as FVTPL are generally presented based on contractual maturity. Non-trading derivatives are presented according to the recovery or settlement of the hedging transaction.

<sup>(3)</sup> Demand deposits of \$585 billion (October 31, 2023 – \$511 billion) are presented as within one year due to their being repayable on demand or at short notice on a contractual basis. In practice, these deposits relate to a broad range of individuals and customer-types which form a stable base for our operations and liquidity needs.

<sup>(4)</sup> The amounts reflect the estimated timing of when settlement of those amounts are expected to occur. The amounts payable on demand relating to policyholders' cash and/or account values for insurance contract liabilities, including segregated fund insurance contract liabilities, is \$8 billion (October 31, 2023 – \$7 billion).

## Note 31 Parent company information

The following table presents information regarding the legal entity of Royal Bank of Canada with its subsidiaries presented on an equity accounted basis.

#### **Condensed Balance Sheets**

	As at		
	October 31	October 31	
	2024	2023	
(Millions of Canadian dollars)		(Restated – Note 2)	
Assets			
Cash and due from banks	\$ 40,944	\$ 41,770	
Interest-bearing deposits with banks	54,009	61,256	
Securities	233,376	217,490	
Investments in bank subsidiaries and associated companies (1)	57,926	55,082	
Investments in other subsidiaries and associated companies	117,362	102,457	
Assets purchased under reverse repurchase agreements and securities borrowed	174,131	150,207	
Loans, net of allowance for loan losses	839,424	709,635	
Net balances due from bank subsidiaries (1)	97	_	
Other assets	216,003	214,145	
	\$ 1,733,272	\$ 1,552,042	
Liabilities and shareholders' equity			
Deposits	\$ 1,168,765	\$ 1,006,284	
Net balances due to bank subsidiaries (1)	_	10,132	
Net balances due to other subsidiaries	17,840	6,866	
Other liabilities	406,032	402,326	
	1,592,637	1,425,608	
Subordinated debentures	13,546	11,386	
Shareholders' equity	127,089	115,048	
	\$ 1,733,272	\$ 1,552,042	

<sup>(1)</sup> Bank refers primarily to regulated deposit-taking institutions and securities firms.

## Condensed Statements of Income and Comprehensive Income

	For the year ended		
	October 31	October 31	
(Millions of Canadian dollars)	2024	2023 (Restated – Note 2)	
Interest and dividend income (1)	\$ 70,603		
Interest expense	57,094	44,174	
Net interest income	13,509	12,321	
Non-interest income (2)	5,080	5,390	
Total revenue	18,589	17,711	
Provision for credit losses	2,964	2,002	
Non-interest expense	13,543	11,780	
Income before income taxes	2,082	3,929	
Income taxes	1,031	1,874	
Net income before equity in undistributed income of subsidiaries	1,051	2,055	
Equity in undistributed income of subsidiaries	15,179	12,550	
Net income	\$ 16,230	\$ 14,605	
Other comprehensive income (loss), net of taxes	597	251	
Total comprehensive income	\$ 16,827	\$ 14,856	

<sup>(1)</sup> Includes dividend income from investments in subsidiaries and associated companies of \$9 million (October 31, 2023 – \$25 million).

<sup>(2)</sup> Includes a nominal share of income (loss) from associated companies (October 31, 2023 – nominal).

## Condensed Statements of Cash Flows

	For the year ended		
	October 31	October 31	
(Millions of Canadian dollars)	2024	2023 (Restated – Note 2)	
Cash flows from operating activities		,	
Net income	\$ 16,230	\$ 14,605	
Adjustments to determine net cash from operating activities:	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Change in undistributed earnings of subsidiaries	(15,179)	(12,550)	
Change in deposits, net of securitizations	77,327	50,306	
Change in loans, net of securitizations	(56,572)	(30,055)	
Change in trading securities	3,162	(12,832)	
Change in obligations related to assets sold under repurchase agreements and securities			
loaned	(2,860)	21,954	
Change in assets purchased under reverse repurchase agreements and securities borrowed	(24,203)	, ,	
Change in obligations related to securities sold short	(1,721)	` '	
Other operating activities, net	(2,565)	5,000	
Net cash from (used in) operating activities	(6,381)	18,231	
Cash flows from investing activities			
Change in interest-bearing deposits with banks	7,247	23,424	
Proceeds from sales and maturities of investment securities	167,772	127,965	
Purchases of investment securities	(152,935)	(153,099)	
Net acquisitions of premises and equipment and other intangibles	(1,277)	(2,075)	
Cash used in an acquisition, net of cash acquired	(12,872)		
Change in cash invested in subsidiaries	1,252	(3,802)	
Change in net funding provided to subsidiaries	(166)	(12,531)	
Net cash from (used in) investing activities	9,021	(20,118)	
Cash flows from financing activities			
Issuance of subordinated debentures	3,239	1,500	
Repayment of subordinated debentures	(1,500)		
Issue of common shares, net of issuance costs	159	65	
Common shares purchased for cancellation	(140)	_	
Issue of preferred shares and other equity instruments, net of issuance costs	2,702	_	
Redemption of preferred shares and other equity instruments	(1,021)		
Dividends paid on shares and distributions paid on other equity instruments	(6,637)	, , ,	
Repayment of lease liabilities	(268)		
Net cash from (used in) financing activities	(3,466)	(4,405)	
Net change in cash and due from banks	(826)	, ,	
Cash and due from banks at beginning of year	41,770	48,062	
Cash and due from banks at end of year	\$ 40,944	\$ 41,770	
Supplemental disclosure of cash flow information			
Amount of interest paid		\$ 35,104	
Amount of interest received	67,857	49,098	
Amount of dividends received	2,869	2,628	
Amount of income taxes paid	504	2,604	

#### Note 32 Principal subsidiaries

(Millions of Canadian dollars)		As at October 31, 2024
		Carrying value of voting shares owned
Principal subsidiaries (1)	Principal office address (2)	by the Bank (3)
Royal Bank Holding Inc.	Toronto, Ontario, Canada	\$ 93,533
RBC Direct Investing Inc.	Toronto, Ontario, Canada	
RBC Insurance Holdings Inc.	Mississauga, Ontario, Canada	
RBC Life Insurance Company	Mississauga, Ontario, Canada	
Investment Holdings (Cayman) Limited	George Town, Grand Cayman, Cayman Islands	
RBC (Cayman) Funding Ltd.	George Town, Grand Cayman, Cayman Islands	
Capital Funding Alberta Limited	Calgary, Alberta, Canada	
RBC Global Asset Management Inc.	Toronto, Ontario, Canada	
RBC Investor Services Trust	Toronto, Ontario, Canada	
RBC (Barbados) Trading Bank Corporation	St. James, Barbados	
RBC US Group Holdings LLC (2)	Toronto, Ontario, Canada	34,826
RBC USA Holdco Corporation	New York, New York, U.S.	
RBC Capital Markets, LLC	New York, New York, U.S.	
City National Bank	Los Angeles, California, U.S.	
RBC Dominion Securities Limited	Toronto, Ontario, Canada	17,243
RBC Dominion Securities Inc.	Toronto, Ontario, Canada	
Royal Bank Mortgage Corporation	Toronto, Ontario, Canada	6,932
RBC Europe Limited	London, England	3,170
The Royal Trust Company	Montreal, Quebec, Canada	1,587
Royal Trust Corporation of Canada	Toronto, Ontario, Canada	681

<sup>(1)</sup> The Bank directly or indirectly controls each subsidiary.

Certain of our subsidiaries, joint ventures and associates are subject to regulatory requirements of the jurisdictions in which they operate. When these subsidiaries, joint ventures and associates are subject to such requirements, they may be restricted from transferring to us our share of their assets in the form of cash dividends, loans or advances. As at October 31, 2024, restricted net assets of these subsidiaries, joint ventures and associates were \$56 billion (October 31, 2023 – \$50 billion).

#### Note 33 Subsequent events

On November 1, 2024, we issued US\$1,000 million of LRCN Series 5, at a price per note of US\$1,000, with recourse limited to assets held by a third party trustee in a consolidated trust. The trust assets in respect of LRCN Series 5 consist of US\$1,000 million of our Non-Cumulative 5-Year Rate Reset First Preferred Shares Series BX (Series BX) issued concurrently with LRCN Series 5 at a price of US\$1,000 per Series BX. LRCN Series 5 bear interest at a fixed rate of 6.35% per annum until November 24, 2034, and thereafter at a rate per annum, reset every fifth year, equal to the 5-year U.S. Treasury Rate plus 2.257% until maturity on November 24, 2084.

<sup>(2)</sup> Each subsidiary is incorporated or organized under the laws of the state, province or country in which the principal office is situated, except for RBC US Group Holdings LLC and RBC USA Holdco Corporation which are incorporated under the laws of the State of Delaware, U.S., RBC Capital Markets, LLC, which is organized under the laws of the State of Minnesota, U.S., and City National Bank which is a national bank, chartered under the laws of the United States of America.

<sup>(3)</sup> The carrying value of voting shares is stated as the Bank's equity in such investments.

#### **Consent of Independent Registered Public Accounting Firm**

We hereby consent to the incorporation by reference in this Annual Report on Form 40-F for the year ended October 31, 2024 of Royal Bank of Canada of our Report of Independent Registered Public Accounting Firm dated December 3, 2024, relating to the consolidated financial statements and the effectiveness of internal control over financial reporting, which appears in Exhibit 2 to this Annual Report on Form 40-F.

We also consent to the incorporation by reference in the Registration Statements on Form S-8 Nos. 333-12036, 333-12050, 333-13052, 333-13112, 333-117922, 333-207754, 333-207750, 333-207748, 333-252536 and 333-268715, and on Form F-3 No.333-275898 of Royal Bank of Canada of our Report of Independent Registered Public Accounting Firm dated December 3, 2024 referred to above.

We also consent to reference to us under the heading "Experts" in the Annual Information Form, filed as Exhibit 1 to this Annual Report on Form 40-F, which is incorporated by reference in such Registration Statements.

/s/ PricewaterhouseCoopers LLP

Chartered Professional Accountants, Licensed Public Accountants Toronto, Canada December 4, 2024

# **RBC** Code of Conduct

## A Message from David McKay President and CEO

## Building trust by speaking up and doing the right thing

At RBC, holding ourselves to the highest standards of integrity plays a critical role in achieving our Purpose to help clients thrive and communities prosper, and our Vision to be among the world's most trusted and successful financial institutions.

In short, how we do things is just as important as what we do.

Our Values and our Code of Conduct guide us and set expectations for our behaviour and decision-making. Our Code is the roadmap we follow to serve our clients with the highest standards of integrity. It also lays the foundation for how we work together in a respectful, transparent and fair environment.

Guided by our Leadership Model, we are each responsible for speaking up and doing the right thing to protect and enhance RBC's reputation and put our clients first. We all have a duty to report actual or possible misconduct and the right to be treated with dignity and respect when we do. And that includes speaking up, challenging and reporting unethical behaviour when it occurs, without fear of retaliation.

Together, we can foster a culture that's built on trust, dignity and respect for all.

Please read the Code carefully, discuss what it means with your manager and colleagues, and ask questions to ensure you understand it and what it requires of you.

Our success depends on these principles. And it starts with each one of us.

David McKay, President and CEO

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## **Our Vision and Values**

**RBC's Values** define what we stand for everywhere we do business. They are reflected in our behaviour and the way we build relationships and deliver value to all our clients, employees, shareholders, communities and others we deal with. Guided by our shared Values and united in a common purpose, we can achieve our strategic goals and accomplish great results.

We demonstrate our Vision – **To be Among the World's Most Trusted and Successful Financial Institutions** – by living our Values in the decisions and actions we take every day. These five Values set the tone for our culture and unify us across geographies and businesses:

## **CLIENT FIRST:** We will always earn the right to be our clients' first choice.

- · Put client needs above our own whatever our role, to build lasting relationships
- Listen with empathy, understand client needs to offer the right advice and solutions
- Bring the best of RBC to deliver excellent value and differentiated client experiences

## **COLLABORATION:** We win as One RBC.

- · Believe in each other and trust in teamwork and colleagues' intentions
- Share knowledge, listen and teach to learn and achieve more together
- Look beyond ourselves to see the bigger picture for opportunities and solutions

## ACCOUNTABILITY: We take ownership for personal and collective high performance.

- Be bolder, reach higher, act with courage to realize potential and make a difference
- · Own it; seek out accountability and empowerment to grow and excel
- · Be curious and learn continuously to build skills and careers

## **DIVERSITY & INCLUSION:** We embrace diversity for innovation and growth.

- · Speak up for inclusion and empower people to grow and achieve more
- Seek out and respect different perspectives to challenge conventional approaches
- Identify and act on the opportunities and needs that client diversity brings

## INTEGRITY: We hold ourselves to the highest standards to build trust.

- Be respectful, transparent and fair in all relationships
- Stand up for what we believe; speak with candour; constructively challenge
- Build trust of clients, colleagues and community partners by listening to and understanding their interests and needs

At RBC we bring these Values to life every day – continuing to earn the trust of RBC's clients and each other and ensuring our strong reputation for doing what's right.

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Publication date: January 1, 2023

## 1. Living Our Values

## 1.1 Acting with Integrity – Doing What's Right

RBC is a values-based organization. Our respect for and our commitments to our clients, shareholders, communities and each other are rooted in our Values. RBC's Code of Conduct (the "Code") incorporates RBC's Values, and in particular our Value of Integrity, to guide our day-to-day actions and decisions so we can always do the right thing.

Throughout the Code, "RBC" means Royal Bank of Canada and all its subsidiaries.

Every day our actions demonstrate not only our Value of always earning the right to be our clients' first choice, but also our personal commitments. We each have a responsibility to be truthful, respect others and comply with applicable laws and regulations and RBC's policies (in the Code, the word "policy" includes policies, procedures, standards, standing orders and frameworks). Over many years RBC has earned trust and a reputation for doing what's right through the actions of those who work here. A continued strong focus on doing what's right will sustain and build on that trust – the cornerstone of the financial services industry and our relationships with clients and communities.

We do business across the globe, and each one of us has a responsibility to behave with integrity so that we can continue to serve clients and generate value for RBC's shareholders. More than simply being aware of our Values and following our Code, we need to make them an integral part of how we operate day to day. This will ensure we tell the truth, respect others, uphold the law, speak up to challenge what we believe is wrong, and comply with policies and practices. Our foundation is based on acting with integrity and doing what's right.

For resources and information, visit Doing What's Right on RBCNet.

#### Tell the truth

Our work places us in a position of trust. RBC clients, shareholders, communities and our colleagues rely on us to be honest and do business responsibly. We do what we say we will do and earn the trust and loyalty of our clients, shareholders, communities and colleagues.

#### Respect others and treat them fairly

Showing respect for everyone we work with and the clients we serve, treating them fairly and taking personal responsibility for high performance enable us to achieve RBC's strategic goals. By living our Values and following the Code, we show others we honour the trust they place in us – making RBC a great place to work and do business.

#### Uphold the law

RBC is subject to the laws of the countries where we do business. RBC's policies are designed to comply with its legal and regulatory obligations, including the intent and spirit of the laws that apply to it. By doing so, RBC maintains its reputation for acting with integrity. To this end, each of us must understand and comply with RBC's policies and practices that apply to the way we do our jobs. Keep in mind that breaking the law could result in disciplinary action up to and including termination of our employment, civil, criminal and regulatory penalties, including fines, for RBC and the individual involved, as well as damage to both RBC's and the individual's reputation.

#### Speak up to challenge and do what's right

Constructively challenging decisions and behaviour helps ensure we continue to live our Values in our work at RBC. Seeking out constructive challenge when we make business decisions helps ensure those decisions are right for RBC – and clients, colleagues, shareholders and communities.

#### Comply with policies and instructions

We are each responsible for knowing and following the RBC policies that apply to us. We must also comply with managers' instructions unless they are inconsistent with the Code, RBC Values or policies, are against the law or result in health and safety risks. In these circumstances, or if we are unsure about the right thing to do, we should raise our concerns with one of the Key Contacts.

We must always be aware of both enterprise and local policies specific to business or geographic areas and work within the boundaries of what we have been authorized to do.

## 1.2 Our Shared Commitment and Accountability

The Code applies to all RBC employees, contract workers and members of the boards of directors of Royal Bank of Canada and all its subsidiaries.

Understanding and complying with the Code is a condition of our work at RBC, and critical to earning each other's trust, as well as the trust of our clients and communities. The Code helps to protect our personal integrity and reputation as well as the integrity and reputation of RBC and the financial services industry as a whole.

Any one of us who breaches, or fails to report an actual or possible breach of, the Code will be subject to corrective or disciplinary action.

Corrective or disciplinary action is RBC's response to unacceptable behaviour, including breaches of the Code, and can range from reprimands and impact on performance ratings and compensation, to termination of our working relationship with RBC.

We also expect RBC third party suppliers to follow similar principles and share our commitment to ethics and integrity as set out in our Supplier Code of Conduct.

#### 1.2.1 Approval of the Code

The Board of Directors of Royal Bank of Canada approves the Code.

#### 1.2.2 Waivers

Waivers of the Code, or any of its provisions, are seldom granted. If a waiver is necessary to accommodate exceptional circumstances, it must be approved by RBC's Chief Human Resources Officer and RBC's Chief Risk Officer. A waiver of the Code for Royal Bank of Canada directors, executive officers or specified officers must be approved by Royal Bank of Canada's Board of Directors (or a designated Board committee) and disclosed publicly, as required by applicable laws and RBC policies.

## 2. Speaking Up

Acting with integrity involves more than just personally complying with the Code. It also means we speak up for the good of RBC and that all concerns are heard.

## 2.1 Speaking Up, Asking Questions and Constructively Challenging

While the Code and RBC policies outline the ethical behaviour expected of us, they cannot anticipate every situation we encounter. By speaking up and asking questions, we help ensure RBC does the right thing and we protect our clients' interests and assets, RBC's reputation and each other. If we need guidance, have questions or are unsure about the right thing to do, we should speak with our manager, senior management or one of the Key Contacts.

#### **Doing What's Right**

I notice that it's common for the team I work with to circulate emails with inappropriate material, like GIFs. I think some might find some of the material offensive, and it might not be aligned to our Code of Conduct. But, given everyone seems to do it, including my manager, what do I do?

If you see someone doing something that breaches the Code of Conduct a discussion with the person is encouraged. If the conduct continues you have an obligation to raise your concern with a manager or one of the Key Contacts, without the fear of retaliation.

## 2.2 Reporting Misconduct

We have a duty to report actual, or possible, misconduct that we become aware of, even our own. This includes speaking up about conduct that is, or may be, in violation of the Code, policies and laws, or is otherwise unethical and could put RBC at risk of loss or harm. There are a number of reporting channels we can use to report misconduct. We can notify our managers, senior management, Human Resources, Compliance, or we can report through the Conduct Hotline. The Conduct Hotline also provides us with the option to report anonymously.

Those of us who receive a report of misconduct are expected to promptly engage other Key Contacts and Human Resources, as appropriate, to assist with the review and investigation of the report.

All reports of misconduct are taken seriously and investigated promptly and thoroughly, as appropriate. RBC keeps the identity of the person making the report and the details confidential, and will only disclose this information to the extent necessary to investigate and address the situation or as legally required.

Refer to RBC Standards on Reporting Misconduct and the Speak Up! webpage for further details.

### Some examples of misconduct are:

- deliberate failure to comply with policies, management instructions or the law
- disrespectful behaviour, discrimination, harassment, racism and actual or threatened violence
- misappropriation (including fraud, theft and kiting), improper use of company or client assets or systems, and improper sales reporting
- promoting products and services to clients inappropriately

- inappropriate client referrals, failing to report unusual client transactions and inappropriate use or disclosure of client information
- inappropriate social media use
- failing to disclose, manage and, if necessary, eliminate conflicts of interest, and
- insider trading.

#### 2.3 Investigations, Inquiries and Reviews

At times we may be asked to participate in an internal or external investigation, inquiry or review of concerns or possible misconduct. We have a duty to cooperate and provide honest, accurate, complete and timely information. We may receive an inquiry from government authorities or regulators regarding RBC business. When approached for information by an external party, we must follow the procedures established for our business unit. This includes escalating the inquiry to our manager and local Compliance group or Law Group, as appropriate, for response.

#### 2.4 RBC's Commitment to Non-Retaliation

There will be no retaliation for asking questions, speaking up and making a truthful report of actual or possible misconduct, participating in an investigation or exercising our legal rights. Retaliation can include behaviour or actions that punish or deter someone from speaking up, which we have a duty to and must report. If you believe you or someone else has encountered any form of retaliation, contact one of the channels listed on the Speak Up! webpage to ensure the situation is addressed promptly.

#### Our commitment to non-retaliation means RBC:

- investigates every claim of retaliation
- in appropriate cases, periodically follows up with employees who raise concerns to identify actions or behaviours that could be found to be retaliatory
- reviews performance ratings and compensation decisions made in relation to those who report misconduct to address potential retaliation, if applicable
- provides education and coaching on retaliation to managers of employees who raise concerns, and
- takes disciplinary action to address retaliation.

#### Some examples of retaliation are:

- an unjustified decision affecting someone's compensation, job security, career mobility or performance rating
- excluding someone from meetings or team events, or
- withholding work-related information.

#### Some examples of activities that are not retaliation are:

- appropriate disciplinary action for misconduct
- managing performance, and
- routine coaching.

#### 2.5 What We Expect of Our People Managers

While we are all held to the high ethical standards set out in our Values and the Code, those of us who are people managers are accountable for leading by example. This includes:

- promoting our teams' awareness and understanding of RBC's Values, the Code and our policies to ensure ongoing compliance
- demonstrating RBC's high standards for integrity by behaving in a way that reflects our Values, both in and outside the workplace
- actively listening to employees and fostering an environment where employees feel comfortable and safe to speak up
- being respectful, transparent and fair in all relationships
- maintaining an environment that prohibits retaliation, where everyone feels safe to ask questions, raise concerns and report misconduct, and respecting the privacy of those who do, and
- promptly escalating concerns and reports of possible or actual misconduct as required, and following up to ensure they are addressed.

#### Simple questions are useful tools to test decisions and identify potential risks and issues. Ask yourself:

- Do you feel this situation might violate RBC policies or our Code of Conduct?
- Could this situation be viewed as unethical, dishonest or discriminatory?
- Does this situation conflict with RBC's culture and values?
- Could this situation negatively impact RBC clients, colleagues, third parties or the community?
- Could there be possible consequences of our actions or inaction?
- Could this situation damage RBC's reputation?
- Could this situation be damaging to you if it became public?

If you cannot confidently answer "No" to any of the questions, you should do the right thing and speak up.

# 3. Integrity in Dealing with RBC Clients, Communities and Others

We are committed to promoting fairness in our dealings with our clients, communities, shareholders, third parties and others, carefully weighing our responsibilities to all.

We are in a relationship business and we pride ourselves on the quality of the service, advice and products we provide RBC clients. Integrity and trust help us better serve RBC clients, and we make sure we put their interests above our own. The same applies to the communities where we live and work, making us a company that people want to do business with and work for.

#### 3.1 Protecting RBC Client Information

Clients care deeply about the privacy of the information they share with us. Protecting their information and keeping their trust is integral to the financial services industry. It's also central to our culture of doing what's right. We each have a duty to keep RBC client information confidential and secure from the risk of theft, loss, misuse, and/or improper access or disclosure. We do this by complying with the RBC Enterprise Privacy Risk Management Policy. Unless legally required, we must also never share client information — accidentally or intentionally — with a third party or colleague who does not have a business need to know. We are responsible for and trusted with keeping RBC client information private, even after we leave RBC's service. This includes returning all paper and digital client information in our possession to RBC upon departure.

In the event of a privacy breach, we must follow established procedures. We must immediately report a potential or actual privacy breach in our "Privacy Incident Reporting" tool to engage our local Privacy Officer, and we must never share any details about the breach with others who do not have a business need to know. For more information, please refer to the RBC Enterprise Privacy Risk Management Policy.

#### **3.2 Protecting RBC Business Information**

RBC's business information is one of our most important assets, so we have a duty to safeguard it by complying with RBC information security policies.

For more information, please refer to the RBC Enterprise Information Security Policy and "Proprietary information" in section 6.2 below.

#### What can I do to protect RBC business or client information?

- Never access or use RBC business or client information to benefit ourselves, our families, our friends, or for any purpose unrelated to the performance of our duties.
- Operate on a "need to know" rather than "nice to know" basis, and share RBC business or client information only with those who need it for an appropriate business purpose.
- Always use proper procedures to share information securely.
- Avoid working in public places.
- When working from home or off-site, ensure RBC business or client information is not overheard, visible or left behind.
- Minimize off-site printing and dispose of confidential information securely as soon as it's no longer needed.
- Never use your non-RBC personal email address or other non-approved tools, platforms or applications to receive, forward, upload or send business or client information.
- Immediately report any potential or actual privacy or information security incidents or breaches.

#### 3.3 Protecting RBC Employee Information

Those of us who work at RBC have a right to privacy. Personal information about each of us is confidential. Keeping information private and confidential is a matter of personal integrity, honouring the trust others place in us. Collection, use and disclosure of this information must be relevant to our working relationship with RBC, and compliant with relevant laws, the Code and RBC's policies. For more information, please refer to RBC's Employee Privacy Notice.

#### Some examples of personal information RBC maintains as confidential are:

- information required to verify credentials and education
- date of birth
- employment-related credit and other background checks
- home address
- home phone number and personal cell phone number
- government-issued identification numbers
- diversity data
- compensation
- performance reviews
- corrective/disciplinary actions, and
- health and benefit information and insurance records.

#### 3.4 Protecting RBC's Reputation in Our Communities

#### Individual character and personal activities

We must avoid any conduct or association which could bring our honesty, integrity or judgment into question. It's important to understand how closely our clients, shareholders, communities and colleagues associate us with RBC, even when we are off-duty, and how our off-duty conduct impacts RBC's reputation and brand. We are required to disclose immediately to our manager or Human Resources when we are charged with, and again if we are convicted of, any criminal offence, unless prohibited by local law. Managers should contact Human Resources to seek further guidance. We are held to RBC's Values and the standards set out in the Code, both on- and off-duty, and our duty to report actual or possible misconduct applies equally when we're off-duty.

#### "Off-duty" conduct can become an issue when it:

- damages RBC's reputation (e.g. you post a disparaging social media comment about your colleague's abilities)
- impedes our ability to perform our duties (e.g. a mobile employee has their driver's licence revoked and cannot drive to see clients), or
- brings our integrity and Values into question (e.g. cyber-bullying or harassing a colleague off hours).

#### Communication and external representation

Our Values and the Code provide a foundation for our behaviour when we represent RBC at work and in our communities. Our integrity and trust must be beyond reproach.

#### Business and corporate use of external social media

One of the ways RBC communicates is through social media. To ensure our business and corporate social media use is appropriate and consistent with RBC's general communication strategy, only employees specifically approved for business use may participate in the external social media channels approved by their RBC unit. Refer to the RBC Enterprise Policy on the Use of External Social Media, which includes links to additional business-specific documents and definitions of business and corporate use.

#### Personal use of social media

When we participate in social media in a personal capacity, we must consider the potential impact our personal posts may have on RBC's reputation, and be guided by our Values and the standards set out in the Code. While social media can be used to create greater awareness and promote RBC's brand, it is not an appropriate venue to express concerns about RBC, our clients, colleagues or the competition which could be resolved more constructively through one of the channels listed on RBC's Speak Up! webpage. Confidential, non-public information relating to RBC and its clients must never be shared in our public or private social media conversations. For more guidance on personal use of social media, refer to the RBC Enterprise Guidelines for Personal Use of Social Media.

When using any social media platform, remember that our comments are public and permanent. We should follow the practices below when using social media.

#### Do:

- identify yourself as an RBC employee when posting about RBC on your personal social media accounts; for example #RBCemployee or #MyCompany
- follow your business segment's or functional unit's Social Media Standard (where applicable) and the RBC Enterprise Guidelines for Personal Use of Social Media, and
- contact socialmedia@rbc.com if you have questions or concerns or for guidance when using personal social media accounts to promote RBC products or services.

#### Do Not:

- post on social media if our personal and professional reputations, or the reputation of RBC, may be negatively impacted
- post content about our colleagues or other individuals without prior consent
- include confidential, non-public information relating to RBC and/or RBC clients, employees, contract workers, third parties or other people in digital public forums, such as social media platforms, chat rooms and blogs. Some examples include RBC's financial information, client and employee personal information, business plans or strategies, pending product launches, partnerships with third parties and employment relationships
- try to address an issue involving RBC unfolding in social media, or speak on RBC's behalf, unless authorized by Corporate Communications and our manager
- use third party content without permission, or
- use RBC's trademarks without prior approval.

#### RBC public endorsements and influencer marketing

An influencer is anyone who publicly talks or posts about RBC (e.g. including products, services, promotions and charitable events) through any channel (e.g. including personal social media or online channels) and has a connection with RBC. A connection can include an employment relationship, receipt of an incentive (e.g. payment, gift or benefit) or a family or close personal relationship with an employee. It is misleading if an influencer does not disclose their connection to RBC because it can change a viewer's perception of an endorsement. For more guidance, refer to the RBC Enterprise Endorsement and Influencer Marketing Policy.

#### Some examples of influencers:

- Employees
- Members of the board of directors of RBC or any of its subsidiaries
- Endorsers (e.g. celebrities, athletes or other third parties)
- Reviewers
- Bloggers
- Those who have a family or a close personal relationship with an employee

#### Media interactions and public statements

Our Corporate Communications team manages and protects RBC's reputation and ensures consistency and accuracy in responding to media inquiries. Only those of us who have been authorized to do so may communicate with the media on RBC's behalf. If contacted by a reporter, or receive requests for a third party testimonial/endorsement, employees must immediately reach out to their Corporate Communications representatives. For more information, refer to the RBC Media and Communications Standards.

#### Supporting our communities

Creating positive social impact is integral to how we do business and core to RBC's purpose of helping clients thrive and communities prosper. We support the communities where we live, work and do business. We also accept accountability for the social and economic effects of our business decisions. We take pride in the value of our contributions and encourage employee involvement in the community.

We must obtain our manager's permission to solicit for or promote causes or issues, including charitable ones, in RBC workplaces. Personal involvement in our communities must be at our own expense and must not interfere with our work at RBC or RBC's operations, and may require manager permission depending on the activity. Refer to the RBC Conflicts of Interest Control Standards for Outside Business Activities and External Directorships for more information.

#### **Environmental sustainability**

RBC promotes environmental sustainability. This means minimizing our environmental footprint and offering products and services that support environmental responsibility. We believe fulfilling our goals in these areas will lead to short- and long-term benefits for RBC shareholders, clients, colleagues and the communities where we live and do business.

#### Political involvement and contributions

We support participation in general political processes and respect our colleagues' diverse opinions.

We must not use RBC time or resources to promote political candidates or causes, either inside or outside the workplace. If we choose to participate in political activity, we do so on our own behalf, at our own expense, and not as representatives of RBC. We must never use our affiliation with RBC to market our political activities.

It is important to note that certain jurisdictions impose restrictions on political contributions and/or engagement, including volunteer activities and lobbying, by corporations and/or employees of companies. Employees should review various jurisdictional laws, regulations, and/or policies before making a political contribution. If we have any questions, we should ask our manager and/or Compliance.

# 4. Integrity in Working Together at RBC

At RBC, we have a strong and capable global team serving our clients, working together to deliver on our strategy, and creating value and growth for our clients, communities and shareholders. We believe in each other and have confidence and trust in the capabilities and intentions of our colleagues. Our integrity, diversity & inclusiveness, and collaboration help make RBC a great place to work, belong and thrive.

#### 4.1 Respectful Workplace

We all have a right to work in an environment that is respectful and professional. Mutual respect and dignity ensure an environment that is healthy and productive for RBC employees, clients and others we interact with.

We must all behave in a way that contributes to a workplace free from discrimination, disrespectful and inappropriate behaviour, harassment, sexual harassment, violence and retaliation. Inappropriate in-person or online behaviours of any kind, whether intentional or unintentional, are not tolerated at RBC.

Harassment is any course of action, behaviour or comments that, because of their nature or persistence, are known, or would reasonably be considered, to interfere with an individual's professionalism or create an offensive, hostile or intimidating workplace. We must ensure that an individual's physical and mental well-being is not impacted negatively while also not undermining the integrity of our relationship with RBC and one another.

Maintaining a respectful workplace also requires us to behave professionally while using RBC systems. We must not use RBC networks, systems, devices or access to the Internet to view or communicate inappropriate material.

Keep in mind, respecting confidences and refraining from gossiping about our colleagues is a matter of personal integrity. However, if we become aware of information regarding a possible Code breach, we have a duty to Speak Up! and must report any misconduct.

Refer to RBC's Respectful Workplace Policy for additional information.

#### **Examples of harassment include:**

- intimidating, threatening or coercing another individual
- bullying, which is a persistent pattern of mistreatment of others that causes harm (e.g. spreading rumours, humiliating, ostracizing or negatively using influence to control another person's conduct)
- unwelcome physical contact
- intruding on an individual's privacy, including speculating or outing someone on any grounds of discrimination, and
- offensive or demeaning statements or behaviour (e.g. micro-aggressions, stereotypes, social marginalization) about a person or group, related to any grounds of discrimination.

#### Sexual harassment is a specific form of harassment that includes unwelcome behaviour such as:

- unwelcome advances, flirtation, propositions, invitations for sexual favours
- sexual physical contact
- verbal comments, actions or gestures of a sexual nature
- sexist behaviour that represents a belief that one gender is inferior to the other
- disseminating or displaying sexually suggestive or explicit pictures, cartoons, objects or jokes
- conversations or inquiries about sexual exploits or desires, or using lewd language
- explicitly or implicitly making submission to sexual behaviour a term or condition of employment, or
- using the submission to, or rejection of, sexual behaviour as a basis for employment decisions.

#### Not all negative interactions are harassment, discrimination or retaliation. For example,

- minor conflicts that arise because of differences in work or communication styles, and general disagreements are not harassment
- managing performance and other manager activities that are part of their responsibilities and performed for legitimate business purposes are not harassment, discrimination or retaliation, and
- constructive challenge that encourages the exchange of ideas is not harassment.

#### Examples of disrespectful and inappropriate behaviour are:

- excessive swearing or shouting
- swearing or shouting directed at others
- circulating, posting or making demeaning comments, gestures, pranks or jokes
- circulating or posting derogatory or offensive pictures, posters or communications, and
- conduct that embarrasses or degrades another based on personal characteristics (e.g. body shaming, socio-economic status shaming).

#### Speak Up!

- If you witness or experience inappropriate behaviour, you have a responsibility to report it in a timely manner to a manager, your Human Resources contact or through the Conduct Hotline.
- Early, informal and direct communication with the person whose behaviour you feel is inappropriate is encouraged where you feel comfortable doing so. Oftentimes, this is a helpful way to address the conduct quickly and effectively.
- If you decide not to talk directly to the person, or the conduct continues, you must raise your concern with a manager or one of the Key Contacts. Refer to Doing What's Right.
- The duty to report does not prevent you from pursuing other processes available by law to report concerns.

#### 4.2 Equitable Opportunities, Fair Workplace, Accessibility and Human Rights

#### **Equitable opportunities**

RBC promotes equitable opportunities in all dealings with RBC employees, contract workers, clients and others we deal with. In addition, RBC enables equitable development and career opportunities in the workplace by staffing vacant positions based on business needs, candidates' merits and RBC Values.

#### Fair workplace

We treat all employees and contract workers fairly, pay fair compensation and provide respectful work environments. All employees are encouraged to raise concerns with their manager or any of the Key Contacts.

#### **Accessibility**

At RBC, we are committed to removing barriers to promote dignity, independence and equal opportunity in the workplace and in the products and services we offer. We must always take steps to ensure that clients, employees, contract workers, job applicants and members of the boards of directors of Royal Bank of Canada or any of its subsidiaries are treated fairly and with dignity and respect, taking into account their feedback and accessibility needs. Contact Human Resources for guidance as needed. Refer to the Enterprise Accessibility Guidelines or visit Accessibility at RBC for more information.

#### How can we ensure we provide an inclusive environment for persons with accessibility needs?

- Speak appropriately and respectfully with and about any person with a disability (whether visible or non-visible),
   emphasizing the person first, not the disability.
- Seek to understand the potential needs of others.
- Provide accessible premises, equipment, technology and services, where reasonable or required by applicable legislation.

#### **Human rights**

We comply with all applicable laws and relevant international guiding principles regarding non-discrimination and human rights in the jurisdictions where we operate. We strive to avoid causing or contributing to adverse human rights impacts through our own business activities, and aim to prevent and mitigate adverse impacts that we may be directly linked to, by taking appropriate action. We also expect our employees, contract workers, suppliers and other third parties with whom RBC has a business relationship to share our commitment to respect human rights. Our Human Rights Position Statement is adopted at the highest levels of our organization and sets out our commitment.

RBC prohibits harassment and discrimination on the grounds of age, national origin, citizenship, ethnicity, colour, religion or creed, race and ancestry (which is inclusive of those who identify as Indigenous), physical or mental disability, veteran status, family status, pregnancy, marital status, civil or same sex union, biological sex (including intersex), sexual orientation, gender identity/expression or any other characteristic protected by law.

RBC is committed to fostering diversity and inclusion and to respecting and appreciating our differences. Even where laws allow for discrimination on these grounds, RBC operates in a way that treats people fairly.

#### 4.3 Workplace Health and Safety

RBC is committed to providing a healthy and safe workplace and complying with applicable health and safety laws. Maintaining such a workplace is a shared responsibility of RBC and its employees and contract workers.

All employees and contract workers are to take every reasonable and necessary precaution to ensure their health and safety as well as those of their colleagues. A workplace includes all RBC premises and any other place where work related activity occurs, including work related social events and business travel.

To ensure our workplaces are healthy and safe, we understand and follow RBC's health and safety policies and procedures. We also:

- do not have weapons of any kind in our possession while on RBC premises, and
- obtain management approval and any required permits before arranging events or serving alcohol on RBC premises.

## 5. Integrity in How We Do Business

Ethical behaviour governs every aspect of our business, from day-to-day transactions to special projects.

#### 5.1 Managing Business Dealings

As representatives of RBC, we have a duty to never mislead others – even by omission – about products or services we offer. We must be mindful in our communications to provide information that is clear, simple and not misleading in any way. We must make every reasonable effort to provide full and fair information and correct errors or ambiguity in any statement made on RBC's behalf. This is especially important with regard to our sales representations, marketing and advertising.

We ensure our sales practices are fair and not misleading by ensuring that we:

- are knowledgeable about the products and services we recommend to clients
- recommend products and services based on an understanding of a client's needs and never for personal gain or to meet performance incentive goals or other targets
- clearly and accurately explain the terms and conditions outlined, and give appropriate disclosures about a
  product or service in clear, simple and not misleading language
- · are not pressuring or coercing our clients for any reason, and
- obtain proper and informed consent from our clients in line with RBC's policies.

#### 5.2 Avoiding and Managing Conflicts of Interest

By acting in a way that puts RBC and our clients' interests above our personal interests, we can assure RBC stakeholders of our integrity. This means that the decisions we make in our work with RBC must be made independently of our own interests.

Obligations arising from our other business, family and social relationships must not play a role in our work for RBC. A conflict of interest – actual, potential or perceived – is a situation that could cause others to doubt our ability to perform our jobs effectively and objectively. Keep in mind that a conflict of interest can exist even where we have behaved properly and ethically. Even the impression of a conflict of interest can affect RBC's reputation and our own. We must think about how our actions would look to others. Just because we don't perceive our situation to be a conflict, doesn't mean others share the same view.

Conflicts often arise where there is a personal interest that could compromise our objectivity (i.e. a personal conflict), but also where there may be conflicting interests between RBC and third parties (i.e. a corporate conflict). Even where there is no opportunity for personal gain in a situation, we must consider whether RBC's interest may conflict with a client's. Irrespective of the type, we have an ongoing responsibility to identify, disclose, manage and, if necessary, eliminate conflicts of interest in relation to RBC, its employees, its clients and its third parties.

#### What are some scenarios that present actual, potential or perceived conflicts of interest?

- Borrowing money from or lending money (including co-signing or being a guarantor of loans) to other RBC employees, contract workers or clients, unless the amount is nominal
- Using your position at RBC to promote an outside organization or business
- Using your position at RBC to inappropriately influence any employees or transactions
- Working on behalf of RBC in any transaction or business relationship where you, your family or someone you have a
  close personal relationship with has a personal or financial interest
- Processing a transaction for another employee without exercising the same due diligence as you would for any other RBC client
- Excessive or irresponsible gambling that could place an employee in financial difficulty

#### What are some examples of corporate conflicts?

- An RBC analyst conducts securities research on a company that is intended to provide an objective opinion on those securities, while also being in possession of inside information about another client that could influence their opinion
- An employee offers entertainment to a regulatory agency that has oversight of RBC

Some conflicts arise by virtue of certain types of relationships we have, while others are a result of engaging in certain activities. Common conflicts of interest are described in the following sections. Note that in these sections "family" includes:

- a spouse, common-law partner or domestic partner
- children and step-children
- parents and siblings
- · grandparents and grandchildren, and
- other relatives by blood or marriage.

We must make sure we read and understand the RBC Enterprise Conflicts of Interest Policy and related control standards as well as the RBC Enterprise Anti-Bribery Anti-Corruption Policy. These resources explain how to disclose actual, potential or perceived conflicts with external parties. Where we are unsure about a potential conflict or need more information, we should check with our local Compliance group. Where the conflict relates to another RBC employee, we should speak with our manager or contact Human Resources for guidance as needed. Directors of Royal Bank of Canada should check with the Corporate Secretariat. Non-employee directors of subsidiaries should check with the Subsidiary Governance Office.

#### 5.2.1 Managing Our Close Personal Relationships in RBC Dealings

It is important that we handle our financial dealings responsibly, with integrity and in compliance with RBC policies.

We often use RBC products and services ourselves, as do many of our friends and family members. We must make sure all our personal, family and friend dealings with RBC are handled at arm's length – independent of their relationship to us and our relationship with RBC – by following relevant procedures for the business we work in.

Likewise, our loyalties can become conflicted if friends or family members work for a company that does or seeks to do business with RBC as an RBC client or third party. This is especially likely to be a problem if it happens to those of us who are involved in the approval or selection process, contract negotiations or relationship management with RBC clients or third parties. In these cases, we must inform our manager or local Compliance group so the conflict can be addressed.

#### 5.2.2 Managing Close Personal Relationships at Work

It is possible for our close personal relationships to have an effect on our work at RBC. We must understand the actual or perceived effects that close personal relationships may have in order to avoid situations that would reflect negatively on RBC.

It's important to identify and disclose immediately if we will be working with family or others who we are in a close personal relationship with so conflicts can be appropriately managed or avoided.

Remember, there is no substitute for good judgment and common sense. If we are ever in doubt about a relationship that may put us in a conflict of interest, we should speak with our manager or Human Resources.

#### What are some examples of "close personal relationships"?

- Family
- Romantic or intimate relationships
- Household members such as roommates
- Close friends
- Persons with whom we have a significant financial relationship (e.g. business partner or co-investor)

# What types of close personal relationships could cause a conflict of interest and must be disclosed so they can be appropriately managed or avoided?

- A supervisory relationship with a family member or someone we are in a close personal relationship with
- Any working relationship with a family member or someone we are in a close personal relationship with where we may have, or be perceived to have, the ability to impact compensation, work or promotion prospects

#### 5.2.3 Managing Outside Activities and External Directorships

Some of us take on additional activities or roles outside of our work at RBC. For example, we may work part-time elsewhere, run a personal business from home or take on a directorship, officer position or similar role at another company, organization, club, association or foundation. No matter the activity or role, it must not be with one of RBC's competitors. It must also not compromise our ability to do our best work and fulfill our responsibilities to RBC or its clients.

We must be aware of actual, potential or perceived conflicts of interest and potential reputational issues related to outside activities and external directorships, and must comply with the Code and RBC policies on disclosure and approval. Doing so allows us to maintain our commitment to integrity while maximizing our business and relationships.

#### The following may be considered competitors of RBC:

- Banks
- Credit unions
- Asset management firms
- Insurance companies
- Mortgage companies

- Trust companies
- Certain financial technology companies (i.e. FinTech)
- Other companies that provide financial services

Even if an outside activity or external directorship is not with a direct competitor of RBC, conflicts of interest may still arise if the activity or role directly relates to, interferes with or overlaps with our work at RBC (for example, subject matter, job function, technical expertise or using RBC time/systems/resources).

For more information on managing outside activities or work and managing external directorships, refer to the RBC Enterprise Conflicts of Interest Policy and the RBC Conflicts of Interest Control Standards for Outside Business Activities and External Directorships for the required process and approvals.

- Directors of Royal Bank of Canada should refer to the Policies and procedures Conflicts of interest section in the Royal Bank of Canada Director's Guide and consult the Corporate Secretariat.
- Non-employee directors of subsidiaries should refer to the RBC Policy on the Legal Governance of Subsidiaries and consult the Corporate Secretary of the relevant subsidiary.

#### 5.2.4 Managing Gifts and Entertainment

In business, it is common to foster relationships and show appreciation by exchanging courtesies such as meals, gifts and entertainment. However, we must ensure that the gifts and entertainment we accept are not intended or designed to influence our business judgment on behalf of RBC. Likewise, we must never give gifts or entertainment intended to inappropriately influence or create a sense of obligation to those we have a business relationship with. To keep our purposes clear, all gifts and entertainment we accept or give must comply with RBC policies and be customary and consistent with usual business practices.

RBC policies and business practices require that all gifts and entertainment given or received, with certain exceptions (such as gifts and entertainment of a nominal value or promotional gifts), be disclosed and approved by the appropriate Approval Authority. We must take extra caution when the intended recipient of a gift or entertainment is a public official.

**Gifts** are anything of value given or received in relation to RBC business. We may only give or accept gifts that are customary, modest and culturally sensitive. We must never accept or give cash, cash equivalents, bonds or negotiable securities, although gift certificates or gift cards are allowed as long as their intended purpose is for the purchase of what would otherwise be considered a gift.

#### Key things to remember when considering gifts or entertainment:

- Cash, bonds and negotiable securities are never acceptable gifts regardless of the amount.
- The RBC Conflicts of Interest Control Standards for Gifts and Entertainment sets out limits for gifts, as set out below. Note that the annual cumulative limits that an employee may give to (or receive from) the same client or third party recipient should not exceed:
- \$100 CAD in Canada
- \$100 USD in the United States
- £100 GBP in the United Kingdom
- €100 Euro in Europe, and
- in all other jurisdictions, the local currency equivalent to 100 Canadian dollars.

- Entertainment must not seem excessive or inappropriate; if unsure, seek guidance from your manager or Compliance before accepting an invitation.
- You must seek guidance from your local Money Laundering Reporting Officer (MLRO) or designated compliance officer before providing a gift or entertainment to, or accepting any gifts or entertainment from, a public official.
- Gifts and entertainment must not create a sense of obligation for either party it's never wrong to question the motive behind business gifts and entertainment.
- Follow your RBC policies and business practices regarding gifts or entertainment, including recordkeeping.
- Gifts or entertainment between employees must never be given in exchange for a business referral, to influence or to gain another form of business advantage now or in the future.

**Entertainment** includes any event we host or attend for business related purposes. Common examples include meals, sporting events, theatrical performances and educational events. Entertainment should always be in good taste and consistent with usual business practice. As with gifts, we must avoid entertainment that is lavish or too expensive because it may also be seen to influence our judgment.

If only one party attends the event, it is considered a gift rather than entertainment. For example, if a third party gives us tickets to an event, but does not attend, we must follow our process for gifts received from a third party. The same would be true if RBC offers entertainment to a third party, but no one from RBC attends the event. Employees who are invited by a supplier to attend an RBC sponsored event as a gift may be subject to a different approval process and requirements. Refer to the RBC Conflicts of Interest Control Standards for Gifts and Entertainment or consult with your local Compliance group.

RBC has restrictions on payment and acceptance of payment of travel or lodging expenses. These apply to situations where RBC is providing entertainment or where we are accepting travel or lodging expenses from a third party.

In all cases, we must comply with the RBC Enterprise Conflicts of Interest Policy, the RBC Conflicts of Interest Control Standards for Gifts and Entertainment and the RBC Enterprise Anti-Bribery Anti-Corruption Policy. Your RBC unit may also have more specific rules; for further information you should contact your local Compliance group.

#### 5.2.5 Managing Inside Information and Securities Trading

From time to time, we may have access to material, non-public information ("inside information") about a company, including RBC, or its clients. As a rule, inside information can reasonably be expected to affect the market value or price of a company's securities, or considered important to a reasonable investor's investment decision. Having inside information offers an unfair advantage when deciding whether to buy, sell or hold onto a security. As a result, many of the countries where we do business have laws regarding when we can trade in securities issued by any company.

When we have inside information about a company, we must notify Compliance immediately to ensure that the potential conflict is managed appropriately. In addition, we must not trade in the securities of that company. Doing so is called "insider trading" – which is illegal and subject to fines and penalties. It is also illegal to provide inside information to another (this is usually called "tipping") unless it is necessary to accomplish a legitimate business purpose. Employees should be familiar with information barriers and other tools outlined in RBC policies, which are used to manage conflicts.

Many of our investment activities, even where they are not illegal, may still pose personal conflicts that must be managed or eliminated in accordance with RBC policies. Regardless of whether we have access to or possess inside information, we are all subject to the requirements of RBC personal trading policies. Before trading in the securities of RBC, its clients or any other company, we must familiarize ourselves with these requirements, as well as the effect that the perception of wrongdoing may have.

For more information, refer to the RBC Conflicts of Interest Control Standards for Personal Trading and the RBC Conflicts of Interest Control Standards for Inside Information and Information Barriers, as well as applicable local or business-specific policies.

Directors of Royal Bank of Canada should refer to the *Insider Trading and Reporting Policy and Procedures for Directors of Royal Bank of Canada*.

Non-executive directors of Royal Bank of Canada's subsidiaries who are not officers, employees or directors of Royal Bank of Canada should refer to the RBC Policy on the Legal Governance of Subsidiaries.

#### Key things to remember when engaging in securities transactions and trading:

- All employees need pre-approval for personal investments in private companies, be it a small family business or a larger company.
- Never accept favoured share allotments for initial public offerings that are a result of a relationship you have with a company through RBC.
- It doesn't matter how you come to possess inside information, you are always obligated to protect it in accordance with RBC policies and applicable laws.
- Be particularly mindful when trading in RBC securities, as there might be additional restrictions.

#### **5.2.6** Accepting Appointments or Inheritances

RBC's clients look to us for advice on their financial matters. Clients may ask or appoint us to represent them or their interests in a variety of situations. These appointments include our acting as attorneys, mandataries, trustees, executors, administrators, liquidators, protectors, and in other appointments or fiduciary roles. In some instances, clients wish to show their appreciation for the value of our services by giving us a gift effective on their death. These can be made in the client's will, by designation as beneficiary under a client's policy, plan or account, or by joint ownership of an asset.

To make sure there is no actual, potential or perceived conflict of interest, we and our families must not accept these requests, appointments, gifts or benefits unless they arise independently of the client relationship. If a request, appointment, gift or benefit does not arise independently of the client relationship, but we believe that special circumstances apply, we must follow established procedures before we or our families accept it. Management and local Compliance approvals, appropriate for the business we work in, are required. When acceptance of certain appointments is part of our role (such as being a discretionary investment manager), we must also follow RBC policies.

#### **5.3 Preventing Financial Crime**

Money laundering, terrorist financing, bribery and corruption, activities that may violate applicable economic sanctions and tax evasion are serious crimes that have damaging effects on global economies, countries, communities and businesses. Global efforts to prevent these crimes receive significant attention from regulators, governments, international organizations and law enforcement agencies.

RBC is committed to doing business based on the quality of our reputation and the services we provide, and not because we have gained any dishonest or unfair advantage. RBC supports efforts to detect and prevent these financial crimes through our commitment to operate with integrity. It is very important that we know and comply with all applicable laws and RBC policies designed to prevent and detect these crimes.

#### Reporting financial crimes

We must be vigilant and exercise good judgment when dealing with unusual or suspicious transactions or activities. If we know of or suspect or have any concerns relating to money laundering, terrorist financing, bribery and corruption, activities that may violate applicable economic sanctions, tax evasion or criminal activity, we must Speak Up! and report them as soon as possible to our manager or one of the Key Contacts. We must also never advise ("tip-off") anyone we suspect of committing these crimes.

For more information or guidance, please refer to the RBC Enterprise Control Standards on Anti-Money Laundering and Anti-Terrorist Financing and the RBC Enterprise Anti-Bribery Anti-Corruption Policy.

#### What can I do to identify and prevent money laundering or terrorist financing?

- Obtain current and adequate Know Your Client information for all client relationships.
- Be aware of AML risks and report concerns every time you observe unusual or suspicious activity.
- Never knowingly assist anyone to transfer the proceeds of crime or alter, remove or disguise information to facilitate a transaction that would otherwise be prohibited under the law.

#### What can I do to prevent bribery and corruption?

- Never knowingly facilitate any transaction associated with the proceeds of bribery and corruption.
- Never solicit, give, receive or promise anything of value, either directly or indirectly, with the intent of helping RBC obtain an inappropriate advantage. This includes offering, providing or receiving excessive or inappropriate gifts and entertainment.
- Never make facilitation payments. These are typically small payments made to government officials to obtain or speed up routine actions or services such as obtaining licences or permits.

#### What can I do to prevent tax evasion?

- Follow RBC's Know Your Client procedures to understand the source and use of a client's funds and affairs. If you suspect tax evasion or inappropriate tax reporting, escalate the matter to your manager and AML Compliance contact. Refer to the RBC Enterprise Control Standards on Anti-Money Laundering and Anti-Terrorist Financing for more information on when and how to escalate.
- Do not knowingly facilitate or ignore tax evasion, either in connection with RBC's corporate tax affairs or in servicing our clients. If you are aware of any such behaviour at RBC, report it through one of the channels listed on RBC's Speak Up! webpage.

#### 5.4 Managing Compliance with Global Economic Sanctions

As a regulated financial institution, RBC must comply with economic sanctions in Canada and other jurisdictions where we operate. We must be aware of any economic sanctions that may apply and their impact to RBC and RBC clients. Further, we must not knowingly avoid sanction regulations, either personally or in servicing our clients. Contact the RBC Law Group or Global Economic Sanctions team for advice if you are unsure of the right course of action.

For more information, please refer to RBC's Enterprise Economic Sanctions Policy.

#### **5.5 Ensuring Fair Competition**

RBC seeks to ensure fair business practices are followed wherever we do business. Many countries where we do business have laws to promote fair competition and reduce monopolistic (or anti-competitive) activity.

At RBC, each of us has a responsibility to know and comply with applicable competition and anti-trust laws. We need to be able to recognize and avoid situations that may conflict with these laws. To ensure we comply with these laws, we must be especially careful when dealing with competitors of RBC or other third parties. Never agree or arrange with a competitor to do any of the following directly or indirectly:

- fix, maintain, increase or try to control the price of a product or service
- divide or allocate sales, clients, suppliers or markets for the supply, or acquisition of, products or services, or
- fix, maintain, increase, lessen, prevent, eliminate or otherwise try to control the production or supply of a product or service.

We must take great care at industry association meetings or other events where we may interact with competitors or other third parties. If a discussion appears to be leading into prohibited areas, we must voice our concern, withdraw from the discussion and immediately advise local Compliance or the RBC Law Group. While industry associations can provide excellent opportunities for networking and business development, they pose challenges as well. When attending events, we must be careful to avoid even the appearance that RBC participates in or endorses unfair or manipulative business conduct.

#### Other examples of activities where competition issues arise:

- Bid-rigging or secretly making agreements with other bidders when submitting bids or tenders
- Tied selling or making the availability of a product or service conditional on the purchase of another product or service
- Communications that could be interpreted to show an anti-competitive intent or behaviour, such as advertisements that are misleading, unfair or inaccurate when they compare RBC products with those of our competitors
- Benchmarking or exchanging information with competitors, particularly where the information could raise possible concerns relating to conspiracy, bid-rigging, illegal trade practices or anti-competitive agreements
- Entering into agreements with another company to set or fix employee compensation or benefits (e.g. wage-fixing agreements)
- Improper agreements with another company not to hire or solicit its employees
- Any other act that is likely to harm competition substantially if done in circumstances where RBC is an important participant in a market or a class of business

For more information, please refer to RBC's Enterprise Anti-Trust and Competition Law Policy and Enterprise Compliance Control Standards for Anti-Trust and Competition Law.

# 6. Integrity in Safeguarding Entrusted Assets

As a financial institution, we manage the assets in our care responsibly and ethically to earn and maintain our stakeholders' trust.

#### **6.1 Protecting RBC Client Property**

In order to earn RBC clients' trust, we must safeguard their property. This property should be used only in accordance with their directions, relevant RBC policy and the law. Using client property inappropriately or for personal gain is a violation of this trust.

#### **6.2 Protecting RBC Property**

#### Fraud, misappropriation and misuse

Many of us have access to premises, systems and information about RBC processes that are not available to RBC clients or the general public. We must never use this access or information to benefit ourselves, our families or our friends, or for any purpose unrelated to the performance of our duties. Fraud, misappropriation of property or corporate opportunities and other types of misuse are never tolerated.

Acts of fraud may include intentionally concealing or misrepresenting facts for the purpose of inducing, deceiving or misleading others.

#### Some examples of fraud are:

- improper financial reporting (such as improper revenue recognition and over- or understating assets or liabilities)
- deliberate failure to fulfill our disclosure obligations, and
- falsifying records (such as forging client or management signatures).

"Misappropriation" includes theft or other intentional misuse of RBC assets, systems, processes or RBC client funds. Misuse can include any purpose not related to the performance of our duties.

#### Some examples of misappropriation and misuse are:

- intentional personal use of RBC expense accounts or corporate credit cards expense accounts and corporate credit cards must be used only for expenses eligible for reimbursement under RBC's expense guidelines
- unauthorized "borrowing" and "kiting" (taking advantage of the time delay required for an item to clear)
- obtaining funds through false pretences such as depositing a cheque known to be NSF (Non- Sufficient Funds) or making an "empty envelope deposit" in an automated banking machine
- allowing others to benefit from opportunities only available to RBC employees
- making unauthorized changes to a client profile, and
- submitting false benefit claims.

#### **Proprietary information**

RBC proprietary information includes non-public or undisclosed information we withhold from general knowledge. This information is critical to our business, and could be useful to our competitors or harmful to RBC if disclosed.

#### Some examples of proprietary information are:

- RBC client lists and trade secrets
- technical and statistical information
- RBC developed program source code
- financial documents
- contract documentation
- legal, regulatory or business matters
- business processes, and
- corporate strategies and plans.

Data protection and protecting against data misuse is a shared responsibility and we all have a role to play. We must be diligent at all times, particularly when sending information outside of RBC, receiving information from outside of RBC or even when sharing data internally across legal entities and jurisdictions. It's important to remember that any loss or misuse of data could impact RBC's reputation and client confidence, and may have legal, regulatory and financial impacts. For more detail on how to protect proprietary information, please refer to the "Protecting RBC Business Information" in section 3.2 above.

#### Keep in mind:

- Never send work-related material to your personal email.
- Take caution and check for correct email addresses before emailing any RBC information.
- Never upload RBC business information to external file sharing or online storage sites, without authorization from the appropriate parties.
- Ensure that sharing of information with another party (internal or external) is supported by legitimate business reasons or otherwise authorized.
- Adhere to a clear desk policy for all your work environments.
- Additional examples of how to protect RBC business or client information can be found in section 3.2.

RBC's proprietary information may be disclosed to outside parties only if required by law or if properly authorized. Authorization can often be obtained through a confidentiality agreement. Our responsibility to safeguard RBC's proprietary information continues, even after we leave RBC's service. This includes returning all paper and digital proprietary information in our possession to RBC upon departure.

#### Trademarks, copyright and other intellectual property

RBC intellectual property has important commercial value and is crucial to RBC's effective competition in the marketplace. It includes any of the following that we create while working for RBC:

- inventions, improvements, works of authorship, developments, concepts or ideas
- data, processes, online websites or applications, computer software programs, or discoveries, and
- trade secrets, trademarks, brand names, copyrights or logos.

Any intellectual property we generate in our RBC work belongs to RBC and remains with RBC after we leave RBC's service. We should use RBC intellectual property only as permitted in this Code and RBC policies.

RBC intellectual property must not be used by a third party without RBC's prior approval. Similarly, we may use a third party's intellectual property only with the third party's prior approval. For example, all original musical, artistic and literary works, computer software, performances and sound recordings are protected by copyright laws. We must not download, install or copy any such material to our RBC-issued computers or devices without first obtaining the owner's permission.

We should seek guidance from the RBC Law Group if we suspect RBC intellectual property has been infringed upon or otherwise misused, or if we have any questions on the use of intellectual property.

#### Proper use of RBC networks, systems software, devices, applications and the Internet

We must comply with the Code, RBC policies and any terms and conditions governing the use of RBC equipment, systems, computer networks, applications, software, computers and portable devices, as well as the messages communicated within them. Where RBC policies permit us to use our personal equipment for RBC work, we must follow the policies associated with that use.

When sending communications through RBC networks, we must always maintain a professional tone and comply with the Code and RBC policies, including the Respectful Workplace Policy. We must follow these requirements whether we are using RBC equipment or our own.

In addition, when we conduct work for RBC on any device or network, we must only use electronic messaging channels approved and provided by RBC and the applicable RBC units.

#### **Doing What's Right**

My client, who is a friend of mine, often sends me business-related emails or will text me on my personal device. Given they initiate the message, and we have a personal relationship, is this ok?

If contacted by any client or business associate through non-approved electronic messaging channels, it is important to always redirect them to an RBC approved electronic communication channel (e.g. RBC email address) for business-related communications, <u>and</u> to forward or copy the electronic message into an RBC approved electronic communication channel so that there is a record of the electronic communication within RBC systems. Using non-approved electronic communication channels for work related purposes is prohibited.

RBC reserves the right to monitor, audit and inspect our use of RBC systems and technology, including internet usage, audio recordings of conversations conducted by telephone and electronic messages using email, instant messaging or other electronic means. For more information on the purpose and ways in which RBC monitors the use of RBC systems and technology, please refer to the appendix of RBC's Employee Privacy Notice.

While we may use RBC equipment, systems and technology for personal reasons, we must always comply with the Code and RBC policies, including the Respectful Workplace Policy, and our personal use must be reasonable. In line with this policy, we must not use these systems to view or communicate inappropriate material. These systems also must not be used to do work on behalf of another business or organization, unless authorized by RBC.

#### Some examples of inappropriate material are:

- sexually explicit material
- gambling websites
- derogatory jokes, and
- offensive or demeaning statements or images about a person or group, including those that relate to race, religion, disability, sexual orientation or gender.

Some examples of electronic messaging channels, all of which need to be approved and provided by RBC before using for RBC work, are:

- email
- instant messaging/chat, including chats in deal rooms or other third party applications
- mobile SMS
- any application that can be downloaded and installed from an app store, and
- social media communication tools like LinkedIn, Facebook and YouTube.

#### 6.3 Keeping Accurate Books and Records

RBC's credibility depends on the integrity of its books, records and accounting. Clients rely on us to maintain and provide accurate records of their dealings with us – a duty RBC takes seriously. We must ensure RBC's books and records are accurate, timely and complete, and reflect RBC's business, operations, earnings and financial status.

To maintain accurate books and records, we follow internal processes and procedures. This includes capturing information in the proper system and labelling it correctly so it is complete and accurate.

We are expected to act honestly and with integrity in handling RBC accounts at all times. For instance, overstating an amount on an expense report or falsifying a sales record in order to exceed a target would be a serious violation of RBC's trust in us and the Code. We must also never mischaracterize a payment in order to hide its true purpose (such as disguising a bribe as a "sales fee" or legitimate expense). False statements such as these are never tolerated, no matter how small the amount or the reason behind the action.

We all provide information that RBC uses to prepare financial statements, regulatory reports and publicly filed documents. This means we all play a role in ensuring that the information we record complies with all applicable accepted accounting principles and RBC internal controls.

You must know that falsifying financial or business records (including client documentation) or making false statements to our auditors is against the law. Likewise, we must not make a payment or establish an account on RBC's behalf under false pretenses.

### 7. Conclusion

Our Code of Conduct is integral to the way we do business at RBC. As employees, contract workers, and members of the boards of directors of RBC and all its subsidiaries, it is our duty to read and understand the Code. That said, there will be times when complex and sensitive issues arise that may cause confusion. Don't hesitate to speak up, ask questions and seek help.

"We are all responsible for protecting and enhancing RBC's reputation by following our Code of Conduct. It's also important that we support one another in doing what's right, including feeling empowered to challenge situations we believe are wrong."

David McKay, President and CEO, RBC

#### **Return on Equity and Assets Ratios**

	For the Year-Ended October 2024	For the Year-Ended October 2023(1)	For the Year-Ended October 2022
Return on Assets	0.77%	0.73%	0.84%
Return on Equity	14.4%	14.3%	16.4%
Dividend Payout Ratio	50%	52%	45%

<sup>(1)</sup> Amounts have been restated from those previously presented as part of the adoption of IFRS 17, effective November 1, 2023.

#### **SOX 302 CERTIFICATION**

#### I, David McKay, certify that:

- 1. I have reviewed this annual report on Form 40-F of Royal Bank of Canada;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the issuer as of, and for, the periods presented in this report;
- 4. The issuer's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f)) and 15d-15(f)) for the issuer and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and
- 5. The issuer's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the issuer's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the issuer's internal control over financial reporting.

December 4, 2024

/s/ David McKay

Name: David McKay

Title: President and Chief Executive Officer

#### **SOX 302 CERTIFICATION**

#### I, Katherine Gibson, certify that:

- 1. I have reviewed this annual report on Form 40-F of Royal Bank of Canada;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the issuer as of, and for, the periods presented in this report;
- 4. The issuer's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f)) and 15d-15(f)) for the issuer and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and
- 5. The issuer's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the issuer's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the issuer's internal control over financial reporting.

December 4, 2024

/s/ Katherine Gibson

Name: Katherine Gibson Title: Chief Financial Officer

#### **CERTIFICATIONS**

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), the undersigned officer of Royal Bank of Canada, a Canadian chartered Bank (the "Bank"), hereby certifies, to such officer's knowledge, that:

The annual report on Form 40-F for the year ended October 31, 2024 (the "Report") of the Bank fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 and information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Bank.

Dated: December 4, 2024 /s/ David McKay

Name: David McKay

Title: President and Chief Executive Officer

#### **CERTIFICATIONS**

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), the undersigned officer of Royal Bank of Canada, a Canadian chartered Bank (the "Bank"), hereby certifies, to such officer's knowledge, that:

The annual report on Form 40-F for the year ended October 31, 2024 (the "Report") of the Bank fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 and information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Bank.

Dated: December 4, 2024 /s/ Katherine Gibson

Name: Katherine Gibson Title: Chief Financial Officer

# ROYAL BANK OF CANADA POLICY FOR THE RECOVERY OF ERRONEOUSLY AWARDED INCENTIVE-BASED COMPENSATION FROM EXECUTIVE OFFICERS

#### I. BACKGROUND

Royal Bank of Canada ("<u>RBC</u>") has adopted this policy (this "<u>Policy</u>") to provide for the recovery or "clawback" of certain incentive compensation in the event of a Restatement (as defined below). This Policy is intended to comply with, and will be interpreted to be consistent with, the requirements of Section 303A.14 of the New York Stock Exchange ("<u>NYSE</u>") Listed Company Manual.

#### II. STATEMENT OF POLICY

RBC shall recover reasonably promptly the amount of erroneously awarded Incentive-Based Compensation (as defined below) in the event that RBC is required to prepare an accounting restatement due to the material noncompliance of RBC with any financial reporting requirement under applicable securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period (a "Restatement").

RBC shall recover erroneously awarded Incentive-Based Compensation in compliance with this Policy except to the extent provided under the section entitled "V. Exceptions" herein.

#### III. SCOPE OF POLICY

**A.** Covered Persons and Recovery Period. This Policy applies to all Incentive-Based Compensation received by a person:

- after beginning service as an Executive Officer (as defined below),
- who served as an Executive Officer at any time during the performance period for that Incentive-Based Compensation,
- while RBC has a class of securities listed on NYSE, and
- during the three completed fiscal years immediately preceding the date that RBC is required to prepare a Restatement (the "Recovery Period").

Notwithstanding this look-back requirement, RBC is only required to apply this Policy to Incentive-Based Compensation received on or after October 2, 2023.

For purposes of this Policy, Incentive-Based Compensation shall be deemed "received" in RBC's fiscal period during which the Financial Reporting Measure (as defined herein) specified in the Incentive-Based Compensation award is attained, even if the payment or grant of the Incentive-Based Compensation occurs after the end of that period.

**B.** *Transition Period.* In addition to the Recovery Period, this Policy applies to any transition period (that results from a change in RBC's fiscal year) within or immediately following the Recovery Period (a "<u>Transition Period</u>"), provided that a Transition Period between the last day of RBC's previous fiscal year end and the first day of RBC's new fiscal year that comprises a period of nine to 12 months will be deemed a completed fiscal year. For clarity, RBC's obligation to recover erroneously awarded Incentive-Based Compensation under this Policy is not dependent on if or when a Restatement is filed.

**C.** *Determining Recovery Period.* For purposes of determining the relevant Recovery Period, the date that RBC is required to prepare the Restatement is the earlier to occur of:

- the date the board of directors of RBC (the "<u>Board</u>"), a committee of the Board, or the officer or officers of RBC authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that RBC is required to prepare a Restatement, and
- the date a court, regulator, or other legally authorized body directs RBC to prepare a Restatement.

#### IV. AMOUNT SUBJECT TO RECOVERY

- **A.** *Recoverable Amount.* The amount of Incentive-Based Compensation subject to recovery under this Policy is the amount of Incentive-Based Compensation received that exceeds the amount of Incentive-Based Compensation that otherwise would have been received had it been determined based on the restated amounts, computed without regard to any taxes paid.
- **B.** Covered Compensation Based on RBC's Common Share Price or TSR. For Incentive-Based Compensation based on the price of RBC's common shares or total shareholder return ("TSR"), where the amount of erroneously awarded Incentive-Based Compensation is not subject to mathematical recalculation directly from the information in a Restatement, the recoverable amount shall be based on a reasonable estimate of the effect of the Restatement on the share price or TSR upon which the Incentive-Based Compensation was received. In such event, RBC shall maintain documentation of the determination of that reasonable estimate and provide such documentation to the NYSE.

#### V. EXCEPTIONS

RBC shall recover erroneously awarded Incentive-Based Compensation in compliance with this Policy except to the extent that the conditions set out below are met and the Human Resources Committee of RBC's Board of Directors (the "Committee") has made a determination that recovery would be impracticable:

- **A.** *Direct Expense Exceeds Recoverable Amount.* The direct expense paid to a third party to assist in enforcing this Policy would exceed the amount to be recovered; provided, however, that before concluding it would be impracticable to recover any amount of erroneously awarded Incentive-Based Compensation based on the anticipated expense of enforcement, RBC shall make a reasonable attempt to recover such erroneously awarded Incentive-Based Compensation, document such reasonable attempt(s) to recover, and provide that documentation to the NYSE.
- **B.** Violation of Home Country Law. Recovery would violate applicable Canadian federal or provincial law ("Canadian law") where that law was adopted prior to November 28, 2022; provided, however, that before concluding it would be impracticable to recover any amount of erroneously awarded Incentive-Based Compensation based on violation of Canadian law, RBC shall obtain an opinion of Canadian counsel, acceptable to the NYSE, that recovery would result in such a violation, and shall provide such opinion to NYSE.
- C. Recovery from Certain Tax-Qualified Retirement Plans. Recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of RBC, to fail to meet the requirements of 26 U.S.C. 401(a)(13) or 26 U.S.C. 411(a) and regulations thereunder.

#### VI. PROHIBITION AGAINST INDEMNIFICATION

RBC shall not indemnify any Executive Officer or former Executive Officer against the loss of erroneously awarded Incentive-Based Compensation.

#### VII. DISCLOSURE

RBC shall file all disclosures with respect to recoveries under this Policy in accordance with the requirements of all applicable Canadian and U.S. Federal securities laws, including the disclosure required to be included in applicable Securities and Exchange Commission ("SEC") filings.

#### VIII. DEFINITIONS

Unless the context otherwise requires, the following definitions apply for purposes of this Policy:

"Executive Officer" means RBC's president, principal financial officer, principal accounting officer (or if there is no such accounting officer, the controller), any vice-president of RBC in charge of a principal business unit, division, or function (such as sales, administration, or finance), any other officer who performs a policy-making function, or any other person who performs similar policymaking functions for RBC. Executive officers of RBC's subsidiaries are deemed Executive Officers of RBC if they perform such policy making functions for RBC. Policy-making function is not intended to include policymaking functions that are not significant. Identification of an Executive Officer for purposes of this Policy will include at a minimum executive officers identified pursuant to 17 CFR 229.401(b).

"<u>Financial Reporting Measures</u>" means any of the following: (i) measures that are determined and presented in accordance with the accounting principles used in preparing RBC's financial statements, and any measures that are derived wholly or in part from such measures, (ii) stock price and (iii) TSR. A Financial Reporting Measure need not be presented within RBC's financial statements or included in a filing with the SEC.

"<u>Incentive-Based Compensation</u>" means any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure.

#### IX. APPROVAL AUTHORITY; REVIEW SCHEDULE.

This Policy is reviewed for approval by the Committee, following review by the Compensation Risk Management Oversight Committee and Group Risk Committee, every three years and reviewed by the Compensation Sub-Group annually. This Policy should be reviewed more frequently if required by changes to applicable laws or regulations or to ensure the effectiveness of this Policy and RBC's adherence to best practices. This Policy was last approved by the Committee on October 18, 2023.

#### X. NON-SUBSTANTIVE CHANGES

Non-substantive changes to this Policy will be approved by the SVP, Compensation and Benefits.

#### XI. EFFECTIVENESS; OTHER RECOUPMENT RIGHTS

This Policy shall be effective as of October 18, 2023. Any right of recoupment under this Policy is in addition to, and not in lieu of, any other remedies or rights of recoupment that may be available to RBC and its subsidiaries and affiliates under applicable law or pursuant to the terms of any similar policy or similar provision in any employment agreement, equity award agreement or similar agreement.

#### XII. MONITORING FOR EFFECTIVENESS AND/OR REPORTING REQUIREMENTS

Human Resources, Financial & Regulatory Reporting and the Accounting Policy Group, and Law Group are responsible for monitoring and interpreting the application of this Policy.

#### XIII. OWNERSHIP / RESPONSBILITY FOR THIS POLICY

This document is the responsibility of Human Resources, Compensation and Benefits.