FINANCIAL REPORT FOR THE SIX MONTHS ENDED JUNE 30, 2023
THE BANK OF N.T. BUTTERFIELD \& SON LIMITED

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The Bank of N.T. Butterfield \& Son Limited
Consolidated Balance Sheets (unaudited) (In thousands of US dollars, except share and per share data)

|  | As at |  |
| :---: | :---: | :---: |
|  | June 30, 2023 | December 31, 2022 |
| Assets |  |  |
| Cash and demand deposits with banks - Non-interest bearing | 93,495 | 93,032 |
| Demand deposits with banks - Interest bearing | 172,684 | 258,239 |
| Cash equivalents - Interest bearing | 1,528,675 | 1,749,516 |
| Cash and cash equivalents | 1,794,854 | 2,100,787 |
| Securities purchased under agreements to resell | 59,693 | 59,871 |
| Short-term investments | 669,714 | 884,478 |
| Investment in securities |  |  |
| Equity securities at fair value | - | 236 |
| Available-for-sale at fair value (amortized cost: \$2,156,855 (2022: \$2,209,078)) | 1,949,560 | 1,988,865 |
| Held-to-maturity (fair value: \$3,077,037 (2022: \$3,197,508)) | 3,596,889 | 3,738,080 |
| Total investment in securities | 5,546,449 | 5,727,181 |
| Loans |  |  |
| Loans | 5,029,487 | 5,121,391 |
| Allowance for credit losses | $(26,008)$ | $(24,961)$ |
| Loans, net of allowance for credit losses | 5,003,479 | 5,096,430 |
| Premises, equipment and computer software, net | 152,919 | 146,141 |
| Goodwill | 23,948 | 22,892 |
| Other intangible assets, net | 50,051 | 51,478 |
| Equity method investments | 7,293 | 12,484 |
| Other real estate owned, net | 1,165 | 800 |
| Accrued interest and other assets | 199,966 | 203,520 |
| Total assets | 13,509,531 | 14,306,062 |
| Liabilities |  |  |
| Deposits |  |  |
| Non-interest bearing | 2,838,416 | 3,039,701 |
| Interest bearing | 9,353,636 | 9,951,375 |
| Total deposits | 12,192,052 | 12,991,076 |
| Employee benefit plans | 92,567 | 92,018 |
| Accrued interest and other liabilities | 176,262 | 185,864 |
| Total other liabilities | 268,829 | 277,882 |
| Long-term debt | 98,372 | 172,289 |
| Total liabilities | 12,559,253 | 13,441,247 |
| Commitments, contingencies and guarantees (Note 10) |  |  |
| Shareholders' equity |  |  |
| Common share capital (BMD 0.01 par; authorized voting ordinary shares 2,000,000,000 and non-voting ordinary shares $6,000,000,000$ ) issued and outstanding: $49,757,131(2022: 50,277,466)$ | 498 | 503 |
| Additional paid-in capital | 1,024,846 | 1,032,632 |
| Retained earnings (Accumulated deficit) | 300,375 | 229,732 |
| Less: treasury common shares, at cost: 619,212 (2022: 619,212) | $(17,651)$ | $(20,600)$ |
| Accumulated other comprehensive income (loss) | $(357,790)$ | $(377,452)$ |
| Total shareholders' equity | 950,278 | 864,815 |
| Total liabilities and shareholders' equity | 13,509,531 | 14,306,062 |

The accompanying notes are an integral part of these consolidated financial statements.

|  | Three months ended |  | Six months ended |  |
| :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Non-interest income |  |  |  |  |
| Asset management | 8,228 | 7,410 | 16,166 | 14,881 |
| Banking | 12,553 | 12,919 | 26,153 | 25,596 |
| Foreign exchange revenue | 11,283 | 12,044 | 21,995 | 24,477 |
| Trust | 14,257 | 13,266 | 27,095 | 26,004 |
| Custody and other administration services | 3,327 | 3,338 | 6,663 | 6,928 |
| Other non-interest income | 502 | 2,834 | 2,263 | 3,845 |
| Total non-interest income | 50,150 | 51,811 | 100,335 | 101,731 |
| Interest income |  |  |  |  |
| Interest and fees on loans | 79,785 | 56,542 | 157,273 | 110,598 |
| Investments (none of the investment securities are intrinsically tax-exempt) |  |  |  |  |
| Available-for-sale | 8,758 | 9,637 | 17,666 | 21,505 |
| Held-to-maturity | 20,172 | 19,340 | 41,093 | 34,903 |
| Cash and cash equivalents, securities purchased under agreements to resell and short-term investments | 25,203 | 4,219 | 52,341 | 5,256 |
| Total interest income | 133,918 | 89,738 | 268,373 | 172,262 |
| Interest expense |  |  |  |  |
| Deposits | 38,489 | 5,368 | 73,185 | 9,625 |
| Long-term debt | 2,949 | 2,401 | 5,349 | 4,801 |
| Securities sold under agreement to repurchase | 5 | - | 9 | - |
| Total interest expense | 41,443 | 7,769 | 78,543 | 14,426 |
| Net interest income before provision for credit losses | 92,475 | 81,969 | 189,830 | 157,836 |
| Provision for credit (losses) recoveries | $(1,527)$ | (690) | $(2,198)$ | 10 |
| Net interest income after provision for credit losses | 90,948 | 81,279 | 187,632 | 157,846 |
| Net gains (losses) on equity securities | (7) | 42 | 43 | (14) |
| Net realized gains (losses) on available-for-sale investments | (3) | - | (11) | - |
| Net gains (losses) on other real estate owned | (30) | 65 | 29 | 39 |
| Net other gains (losses) | 4,006 | (29) | 4,015 | 856 |
| Total other gains (losses) | 3,966 | 78 | 4,076 | 881 |
| Total net revenue | 145,064 | 133,168 | 292,043 | 260,458 |
| Non-interest expense |  |  |  |  |
| Salaries and other employee benefits | 41,192 | 41,336 | 83,523 | 81,419 |
| Technology and communications | 14,895 | 14,012 | 28,824 | 28,116 |
| Professional and outside services | 4,760 | 5,426 | 9,793 | 10,484 |
| Property | 7,502 | 7,576 | 14,938 | 15,491 |
| Indirect taxes | 5,296 | 5,468 | 11,043 | 11,407 |
| Non-service employee benefits expense | 1,397 | 940 | 2,795 | 1,865 |
| Marketing | 1,695 | 1,610 | 3,198 | 3,091 |
| Amortization of intangible assets | 1,436 | 1,405 | 2,854 | 2,884 |
| Other expenses | 5,375 | 5,211 | 10,686 | 10,191 |
| Total non-interest expense | 83,548 | 82,984 | 167,654 | 164,948 |
| Net income before income taxes | 61,516 | 50,184 | 124,389 | 95,510 |
| Income tax benefit (expense) | (516) | $(1,055)$ | $(1,185)$ | $(2,030)$ |
| Net income | 61,000 | 49,129 | 123,204 | 93,480 |
|  |  |  |  |  |
| Earnings per common share |  |  |  |  |
| Basic earnings per share | 1.23 | 0.99 | 2.48 | 1.89 |
| Diluted earnings per share | 1.22 | 0.99 | 2.47 | 1.88 |

The accompanying notes are an integral part of these consolidated financial statements.

|  | Three months ended |  | Six months ended |  |
| :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Net income | 61,000 | 49,129 | 123,204 | 93,480 |
| Other comprehensive income (loss), net of taxes |  |  |  |  |
| Unrealized net gains (losses) on translation of net investment in foreign operations | 400 | $(3,084)$ | 356 | $(4,083)$ |
| Net changes on investments transferred to held-to-maturity | 2,604 | $(51,148)$ | 4,631 | $(96,940)$ |
| Unrealized net gains (losses) on available-for-sale investments | $(15,758)$ | $(18,404)$ | 14,058 | $(130,109)$ |
| Employee benefit plans adjustments | 299 | 1,748 | 617 | 2,609 |
| Other comprehensive income (loss), net of taxes | $(12,455)$ | $(70,888)$ | 19,662 | $(228,523)$ |
| Total comprehensive income (loss) | 48,545 | $(21,759)$ | 142,866 | $(135,043)$ |

The accompanying notes are an integral part of these consolidated financial statements.

|  | Three months ended |  |  |  | Six months ended |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2023 |  | June 30, 2022 |  | June 30, 2023 |  | June 30, 2022 |  |
|  | Number of shares | In thousands of US dollars | Number of shares | In thousands of US dollars | Number of shares | In thousands of US dollars | Number of shares | In thousands of US dollars |
| Common share capital issued and outstanding |  |  |  |  |  |  |  |  |
| Balance at beginning of period | 50,447,997 | 504 | 50,211,963 | 502 | 50,277,466 | 503 | 49,911,351 | 499 |
| Retirement of shares | $(723,066)$ | (7) | - | - | $(867,995)$ | (9) | $(102,000)$ | (1) |
| Issuance of common shares | 32,200 | 1 | 36,927 | - | 347,660 | 4 | 439,539 | 4 |
| Balance at end of period | 49,757,131 | 498 | 50,248,890 | 502 | 49,757,131 | 498 | 50,248,890 | 502 |

## Additional paid-in capital

| Balance at beginning of period | $1,035,074$ | $1,018,876$ | $1,032,632$ |
| :--- | ---: | ---: | ---: | ---: |
| Share-based compensation | 5,013 | 3,626 | 9,486 |
| Share-based settlements | 512 | 595 | 535 |
| Retirement of shares | $(15,752)$ | - | $(17,803)$ |
| Issuance of common shares, net of <br> underwriting discounts and commissions | $(1)$ | - | $(4,946$ |
| Balance at end of period | $1,024,846$ | $1,023,097$ | $(4)$ |


| Retained earnings (Accumulated deficit) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Balance at beginning of period |  | 267,169 |  | 125,573 |  | 229,732 |  | 104,329 |
| Net Income for the period |  | 61,000 |  | 49,129 |  | 123,204 |  | 93,480 |
| Common share cash dividends declared and paid, $\$ 0.44$ and $\$ 0.88$ per share (2022: $\$ 0.44$ and $\$ 0.88$ per share) |  | $(21,849)$ |  | $(21,822)$ |  | $(43,824)$ |  | $(43,655)$ |
| Retirement of shares |  | $(5,945)$ |  | - |  | $(8,737)$ |  | $(1,274)$ |
| Balance at end of period |  | 300,375 |  | 152,880 |  | 300,375 |  | 152,880 |
| Treasury common shares |  |  |  |  |  |  |  |  |
| Balance at beginning of period | 619,212 | $(20,511)$ | 619,212 | $(20,600)$ | 619,212 | $(20,600)$ | 619,212 | $(20,058)$ |
| Purchase of treasury common shares | 723,066 | $(18,844)$ | - | - | 867,995 | $(23,600)$ | 102,000 | $(3,897)$ |
| Retirement of shares | $(723,066)$ | 21,704 | - | - | $(867,995)$ | 26,549 | $(102,000)$ | 3,355 |
| Balance at end of period | 619,212 | $(17,651)$ | 619,212 | $(20,600)$ | 619,212 | $(17,651)$ | 619,212 | $(20,600)$ |

Accumulated other comprehensive income
(loss)

| Balance at beginning of period | $(345,335)$ | $(282,552)$ | $(377,452)$ |
| :--- | ---: | ---: | ---: |
| Other comprehensive income (loss), net of <br> taxes | $(12,455)$ | $(70,888)$ | 19,662 |
| Balance at end of period | $(357,790)$ | $(353,440)$ | $(357,790)$ |
| Total shareholders' equity | 950,278 | 802,439 | 950,278 |

The accompanying notes are an integral part of these consolidated financial statements.

|  | Six months ended |  |
| :---: | :---: | :---: |
|  | June 30, 2023 | June 30, 2022 |
| Cash flows from operating activities |  |  |
| Net income | 123,204 | 93,480 |
| Adjustments to reconcile net income to operating cash flows |  |  |
| Depreciation and amortization | 17,762 | 21,386 |
| Provision for credit losses (recoveries) | 2,198 | (10) |
| Share-based payments and settlements | 10,021 | 7,541 |
| Net change in equity securities at fair value | 236 | 14 |
| Net realized (gains) losses on available-for-sale investments | 11 | - |
| Net (gains) losses on other real estate owned | (29) | (39) |
| (Increase) decrease in carrying value of equity method investments | 10 | 222 |
| Dividends received from equity method investments | 5,181 | 79 |
| Net other non-cash movements | 1,089 | - |
| Changes in operating assets and liabilities |  |  |
| (Increase) decrease in accrued interest receivable and other assets | 8,333 | $(13,233)$ |
| Increase (decrease) in employee benefit plans, accrued interest payable and other liabilities | $(14,075)$ | $(6,844)$ |
| Cash provided by (used in) operating activities | 153,941 | 102,596 |
| Cash flows from investing activities |  |  |
| (Increase) decrease in securities purchased under agreements to resell | 178 | $(168,594)$ |
| Shor-term investments other than restricted cash: proceeds from maturities and sales | 1,247,780 | 1,545,871 |
| Short-term investments other than restricted cash: purchases | $(989,492)$ | $(1,683,417)$ |
| Available-for-sale investments: proceeds from sale | 4,539 | - |
| Available-for-sale investments: proceeds from maturities and pay downs | 58,948 | 153,230 |
| Available-for-sale investments: purchases | - | $(34,443)$ |
| Held-to-maturity investments: proceeds from maturities and pay downs | 139,589 | 227,850 |
| Held-to-maturity investments: purchases | - | $(343,107)$ |
| Net (increase) decrease in loans | 193,174 | $(111,142)$ |
| Additions to premises, equipment and computer software | $(14,993)$ | $(13,226)$ |
| Proceeds from sale of other real estate owned | - | 730 |
| Cash provided by (used in) investing activities | 639,723 | $(426,248)$ |
| Cash flows from financing activities |  |  |
| Net increase (decrease) in deposits | $(972,869)$ | $(364,716)$ |
| Repayment of long-term debt | $(75,000)$ | - |
| Common shares repurchased | $(23,600)$ | $(3,897)$ |
| Cash dividends paid on common shares | $(43,824)$ | $(43,655)$ |
| Cash provided by (used in) financing activities | $(1,115,293)$ | $(412,268)$ |
| Net effect of exchange rates on cash, cash equivalents and restricted cash | 24,159 | $(97,582)$ |
| Net increase (decrease) in cash, cash equivalents and restricted cash | $(297,470)$ | $(833,502)$ |
| Cash, cash equivalents and restricted cash: beginning of period | 2,116,546 | 2,203,497 |
| Cash, cash equivalents and restricted cash: end of period | 1,819,076 | 1,369,995 |
| Components of cash, cash equivalents and restricted cash at end of period |  |  |
| Cash and cash equivalents | 1,794,854 | 1,339,503 |
| Restricted cash included in short-term investments on the consolidated balance sheets | 24,222 | 30,492 |
| Total cash, cash equivalents and restricted cash at end of period | 1,819,076 | 1,369,995 |


| Supplemental disclosure of non-cash items |  |
| :--- | :--- |
| Transfer to (out of) other real estate owned | 336 |
| Transfer of available-for-sale investments to held-to-maturity investments | - |
| nnitial recognition of right-of-use assets and operating lease liabilities | - |

The accompanying notes are an integral part of these consolidated financial statements.

Note 1: Nature of business
The Bank of N.T. Butterfield \& Son Limited ("Butterfield", the "Bank" or the "Company") is incorporated under the laws of Bermuda and has a banking license under the Banks and Deposit Companies Act, 1999 ("the Act"). Butterfield is regulated by the Bermuda Monetary Authority ("BMA"), which operates in accordance with Basel principles.

Butterfield is a full service bank and wealth manager headquartered in Hamilton, Bermuda. The Bank operates its business through three geographic segments: Bermuda, the Cayman Islands, and the Channel Islands and the United Kingdom ("UK"), where its principal banking operations are located and where it offers specialized financial services. Butterfield offers banking services, comprised of retail and corporate banking, and wealth management, which consists of trust, private banking, and asset management. In the Bermuda and Cayman Islands segments, Butterfield offers both banking and wealth management. In the Channel Islands and the UK segment, the Bank offers wealth management and residential property lending. Butterfield also has operations in the jurisdictions of The Bahamas, Canada, Mauritius, Singapore and Switzerland, which are included in our Other segment.

The Bank's common shares trade on the New York Stock Exchange under the symbol "NTB" and on the Bermuda Stock Exchange ("BSX") under the symbol "NTB.BH".

## Note 2: Significant accounting policies

The accompanying unaudited interim consolidated financial statements of the Bank have been prepared in accordance with accounting principles generally accepted in the United States of America ("GAAP") for interim financial information and should be read in conjunction with the Bank's audited financial statements for the year ended December 31, 2022.

In the opinion of Management, these unaudited interim consolidated financial statements reflect all adjustments (consisting primarily of normal recurring accruals) considered necessary for a fair statement of the Bank's financial position and results of operations as at the end of and for the periods presented. The Bank's results for interim periods are not necessarily indicative of results for the full year.

The preparation of financial statements in conformity with GAAP requires Management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the unaudited consolidated financial statements and the reported amounts of revenues and expenses during the reporting period, and actual results could differ from those estimates. Management believes that the most critical accounting policies upon which the financial condition depends and which involve the most complex or subjective decisions or assessments, are as follows:

- Allowance for credit losses
- Fair value of financial instruments
- Impairment of goodwill
- Employee benefit plans
- Share-based compensation


## New Accounting Standards

## Troubled Debt Restructurings and Vintage Disclosures

Beginning January 1, 2023, the Bank adopted Accounting Standards Update ("ASU") 2022-02, Financial Instruments - Credit Losses (Topic 326), Troubled Debt Restructurings and Vintage Disclosures. This ASU eliminates the accounting guidance for troubled debt restructurings ("TDRs") by creditors that have adopted the CECL model while enhancing disclosure requirements for loan refinancings and restructurings made with borrowers experiencing financial difficulty. In addition, this ASU also requires disclosure of current period gross charge-offs by year of origination. The Bank has elected to adopt these amendments on a prospective basis.

Accordingly, from the date of adoption, the Bank will evaluate whether a modified loan represents a new loan or a continuation of an existing loan. If the effective yield on the restructured loan is at least equal to the effective yield for comparable loans with similar collection risks and the modifications to the original loan are more than minor, the Bank will derecognize the existing loan and recognize the restructured loan as a new loan. If a loan restructuring does not meet these conditions, the Bank will account for the modification as a continuation of the existing loan. See Note 6: Loans for the new required disclosures.

New Accounting Pronouncements
There were no accounting developments issued during the six months ended June 30, 2023 or accounting standards pending adoption which impacted the Bank.

Note 3: Cash and cash equivalents

|  | December 31, 2022 |
| :--- | :---: |
| Non-interest bearing | June 30, 2023 |
| Cash and demand deposits with banks | 93,495 |
| Interest bearing ${ }^{1}$ | $\mathbf{9 3 , 0 3 2}$ |
| Demand deposits with banks | 172,684 |
| Cash equivalents | $1,528,675$ |
| Sub-total - Interest bearing | $1,701,359$ |
| Total cash and cash equivalents | $1,749,516$ |

${ }^{1}$ Interest bearing cash and cash equivalents includes certain demand deposits with banks as at June 30, 2023 in the amount of $\$ 113.6$ million (December 31, 2022: $\$ 157.2$ million) that are earning interest at a negligible rate.

Note 4: Short-term investments

|  | June 30, 2023 | December 31, 2022 |
| :---: | :---: | :---: |
| Unrestricted |  |  |
| Maturing within three months | 358,510 | 390,540 |
| Maturing between three to six months | 268,527 | 421,734 |
| Maturing between six to twelve months | 18,455 | 56,445 |
| Total unrestricted short-term investments | 645,492 | 868,719 |
| Affected by drawing restrictions related to minimum reserve and derivative margin requirements |  |  |
| Interest earning demand and term deposits | 24,222 | 15,759 |
| Total restricted short-term investments | 24,222 | 15,759 |
|  |  |  |
| Total short-term investments | 669,714 | 884,478 |

Note 5: Investment in securities
Amortized Cost, Carrying Amount and Fair Value
On the consolidated balance sheets, equity securities and available-for-sale ("AFS") investments are carried at fair value and held-to-maturity ("HTM") investments are carried at amortized cost.

|  | June 30, 2023 |  |  |  | December 31, 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Amortized cost | Gross unrealized gains | $\begin{array}{r} \text { Gross } \\ \text { unrealized } \\ \text { losses } \end{array}$ | Fair value | $\begin{array}{r} \text { Amortized } \\ \text { cost } \\ \hline \end{array}$ | Gross unrealized gains | $\begin{array}{r} \text { Gross } \\ \text { unrealized } \\ \text { losses } \end{array}$ | Fair value |
| Equity securities |  |  |  |  |  |  |  |  |
| Mutual funds | - | - | - | - | 724 | - | (488) | 236 |
| Total equity securities | - | - | - | - | 724 | - | (488) | 236 |
| Available-for-sale |  |  |  |  |  |  |  |  |
| US government and federal agencies | 1,859,515 | - | $(193,579)$ | 1,665,936 | 1,919,285 | 14 | $(206,523)$ | 1,712,776 |
| Non-US governments debt securities | 275,845 | - | $(11,451)$ | 264,394 | 262,892 | - | $(11,429)$ | 251,463 |
| Asset-backed securities - Student loans | 1,090 | - | (3) | 1,087 | 5,640 | - | (14) | 5,626 |
| Residential mortgage-backed securities | 20,405 | - | $(2,262)$ | 18,143 | 21,261 | - | $(2,261)$ | 19,000 |
| Total available-for-sale | 2,156,855 | - | $(207,295)$ | 1,949,560 | 2,209,078 | 14 | $(220,227)$ | 1,988,865 |
| Held-to-maturity ${ }^{1}$ |  |  |  |  |  |  |  |  |
| US government and federal agencies | 3,596,889 | - | $(519,852)$ | 3,077,037 | 3,738,080 | - | $(540,572)$ | 3,197,508 |
| Total held-to-maturity | 3,596,889 | - | $(519,852)$ | 3,077,037 | 3,738,080 | - | $(540,572)$ | 3,197,508 |

${ }^{1}$ For the six months ended June 30, 2023, and the six months ended June 30, 2022, impairments recognized in other comprehensive loss for HTM investments were nil.
Investments with Unrealized Loss Positions
The Bank does not believe that the AFS debt securities that were in an unrealized loss position as of June 30, 2023, comprising 165 securities representing $100 \%$ of the AFS portfolios' carrying value (December 31, 2022: 163 and $99.8 \%$ ), represent credit losses. Total gross unrealized AFS losses were $10.6 \%$ of the fair value of the affected securities (December 31, 2022: 11.1\%).

The Bank's HTM debt securities are comprised of US government and federal agencies securities and have a zero credit loss assumption under the CECL model. HTM debt securities that were in an unrealized loss position as of June 30, 2023, were comprised of 219 securities representing 100.0\% of the HTM portfolios' carrying value (December 31, 2022: 220 and 100.0\%). Total gross unrealized HTM losses were 16.9\% of the fair value of affected securities (December 31, 2022: 16.9\%).

Management does not intend to sell and it is likely that management will not be required to sell the securities prior to the anticipated recovery of the cost of these securities. Unrealized losses were attributable primarily to changes in market interest rates, relative to when the investment securities were purchased, and not due to a decrease in the credit quality of the investment securities. The issuers continue to make timely principal and interest payments on the securities. The following describes the processes for identifying credit impairment in security types with the most significant unrealized losses as shown in the preceding tables.

Management believes that all the US government and federal agencies securities do not have any credit losses, given the explicit and implicit guarantees provided by the US federal government.

Management believes that all the Non-US governments debt securities do not have any credit losses, given the explicit guarantee provided by the issuing government.
Investments in Asset-backed securities - Student loans are composed of securities collateralized by Federal Family Education Loan Program loans ("FFELP loans"). FFELP loans benefit from a US federal government guarantee of at least $97 \%$ of defaulted principal and accrued interest, with additional credit support provided in the form of overcollateralization, subordination and excess spread, which collectively total in excess of $100 \%$. Accordingly, the vast majority of FFELP loan-backed securities are not exposed to traditional consumer credit risk.

Investments in Residential mortgage-backed securities relates to 13 securities (December 31, 2022: 13) which are rated AAA and possess similar significant credit enhancement as described above. No credit losses were recognized on these securities as the weighted average credit support and the weighted average loan-to-value ratios range from $15.6 \%-49.0 \%$ and $46.5 \%-55.2 \%$, respectively. Current credit support is significantly greater than any delinquencies experienced on the underlying mortgages.

In the following tables, debt securities with unrealized losses that are not deemed to be credit impaired and for which an allowance for credit losses has not been recorded are categorized as being in a loss position for "less than 12 months" or " 12 months or more" based on the point in time that the fair value most recently declined below the amortized cost basis.

| June 30, 2023 | Less than 12 months |  | 12 months or more |  | Total fair value | Total gross unrealized losses |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fair value | Gross unrealized losses | Fair value | Gross unrealized losses |  |  |
| Available-for-sale securities with unrealized losses |  |  |  |  |  |  |
| US government and federal agencies | 91,678 | $(2,693)$ | 1,574,257 | $(190,886)$ | 1,665,935 | $(193,579)$ |
| Non-US governments debt securities | - | - | 264,394 | $(11,451)$ | 264,394 | $(11,451)$ |
| Asset-backed securities - Student loans | - | - | 1,087 | (3) | 1,087 | (3) |
| Residential mortgage-backed securities | - | - | 18,144 | $(2,262)$ | 18,144 | $(2,262)$ |
| Total available-for-sale securities with unrealized losses | 91,678 | $(2,693)$ | 1,857,882 | $(204,602)$ | 1,949,560 | $(207,295)$ |
|  |  |  |  |  |  |  |
| Held-to-maturity securities with unrealized losses |  |  |  |  |  |  |
| US government and federal agencies | 609,326 | $(46,392)$ | 2,467,711 | $(473,460)$ | 3,077,037 | $(519,852)$ |


|  | Less than 12 months |  | 12 months or more |  | Total fair value | Total gross unrealized losses |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| December 31, 2022 | Fair value | $\begin{array}{r} \text { Gross } \\ \text { unrealized } \\ \text { losses } \end{array}$ | Fair value | Gross unrealized losses |  |  |
| Available-for-sale securities with unrealized losses |  |  |  |  |  |  |
| US government and federal agencies | 713,462 | $(68,016)$ | 995,154 | $(138,507)$ | 1,708,616 | $(206,523)$ |
| Non-US governments debt securities | - | - | 251,463 | $(11,429)$ | 251,463 | $(11,429)$ |
| Asset-backed securities - Student loans | - | - | 5,626 | (14) | 5,626 | (14) |
| Residential mortgage-backed securities | 14,474 | $(1,618)$ | 4,526 | (643) | 19,000 | $(2,261)$ |
| Total available-for-sale securities with unrealized losses | 727,936 | $(69,634)$ | 1,256,769 | $(150,593)$ | 1,984,705 | $(220,227)$ |
|  |  |  |  |  |  |  |
| Held-to-maturity securities with unrealized losses |  |  |  |  |  |  |
| US government and federal agencies | 1,462,005 | $(142,228)$ | 1,735,504 | $(398,344)$ | 3,197,509 | $(540,572)$ |

Investment Maturities
The following table presents the remaining term to contractual maturity of the Bank's securities. The actual maturities may differ as certain securities offer prepayment options to the borrowers.

| Remaining term to maturity |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June 30, 2023 | Within 3 months | 3 to 12 months | 1 to 5 years | 5 to 10 years | Over 10 years | No specific or single maturity | Carrying amount |
| Available-for-sale |  |  |  |  |  |  |  |
| US government and federal agencies | 148,770 | 58,583 | 639,075 | - | - | 819,508 | 1,665,936 |
| Non-US governments debt securities | - | 176,491 | 87,903 | - | - | - | 264,394 |
| Asset-backed securities - Student loans | - | - | - | - | - | 1,087 | 1,087 |
| Residential mortgage-backed securities | - | - | - | - | - | 18,143 | 18,143 |
| Total available-for-sale | 148,770 | 235,074 | 726,978 | - | - | 838,738 | 1,949,560 |
|  |  |  |  |  |  |  |  |
| Held-to-maturity |  |  |  |  |  |  |  |
| US government and federal agencies | - | - | - | - | - | 3,596,889 | 3,596,889 |

Pledged Investments
The Bank pledges certain US government and federal agencies investment securities to further secure the Bank's issued customer deposit products. The secured party does not have the right to sell or repledge the collateral.

|  | June 30, 2023 |  | December 31, 2022 |  |
| :---: | :---: | :---: | :---: | :---: |
| Pledged Investments | Amortized cost | Fair value | Amortized cost | Fair value |
| Held-to-maturity | 40,295 | 33,991 | 32,938 | 24,991 |

Sale Proceeds and Realized Gains and Losses of AFS Securities

|  | Six months ended |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2023 |  |  |  | June 30, 2022 |  |  |  |
|  | $\begin{array}{r} \text { Sale } \\ \text { proceeds } \end{array}$ | $\begin{gathered} \text { Gross } \\ \text { realized } \\ \text { gains } \end{gathered}$ | $\begin{gathered} \text { Gross } \\ \text { realized } \\ \text { (losses) } \end{gathered}$ | Transfers to HTM | $\begin{array}{r} \text { Sale } \\ \text { proceeds } \end{array}$ | $\begin{array}{r} \text { Gross } \\ \text { realized } \\ \text { gains } \end{array}$ | $\begin{array}{r} \text { Gross } \\ \text { realized } \\ \text { (losses) } \end{array}$ | Transfers to HTM |
| Asset-backed securities - Student loans | 4,539 | - | (11) | - | - | - | - | - |
| US government and federal agencies | - | - | - | - | - | - | - | 998,157 |
| Total | 4,539 | - | (11) | - | - | - | - | 998,157 |

${ }^{1}$ During the six months ended June 30, 2022, certain investments were transferred out of the AFS categorization and into HTM. The transfers were recorded at fair value of the securities on the date of transfer. The related net unrealized losses of $\$ 99.1$ million that were recorded in AOCIL will be accreted over the remaining life of the transferred investments using the effective interest rate method.

Taxability of Interest Income
None of the investments' interest income have received a specific preferential income tax treatment in any of the jurisdictions in which the Bank owns investments.
Note 6: Loans
The principal means of securing residential mortgages, personal, credit card and business loans are entitlements over assets and guarantees. Mortgage loans are generally repayable over periods of up to thirty years and personal and business loans are generally repayable over terms not exceeding five years. Government loans are repayable over a variety of terms which are individually negotiated. Amounts owing on credit cards are revolving and typically a minimum amount is due within 30 days from billing. The credit card portfolio is managed as a single portfolio and includes consumer and business cards. The effective yield on total loans as at June 30,2023 is $6.34 \%$ (December 31, 2022: $5.91 \%$ ). The interest receivable on total loans as at June 30,2023 is $\$ 9.9$ million (December $31,2022: \$ 16.6$ million). The interest receivable is included in Accrued interest and other assets on the consolidated balance sheets and is excluded from all loan amounts disclosed in this note.

Loans' Credit Quality
The four credit quality classifications set out in the following tables are defined below and describe the credit quality of the Bank's lending portfolio. These classifications each encompass a range of more granular internal credit rating grades. Loans' internal credit ratings are assigned by the Bank's customer relationship managers as well as members of the Bank's jurisdictional and Group Credit Committees. The borrowers' financial condition is documented at loan origination and maintained periodically thereafter at a frequency which can be up to monthly for certain loans. The loans' performing status, as well as current economic trends, are continuously monitored. The Bank's jurisdictional and Group Credit Committees meet on a monthly basis. The Bank also has a Group Provisions and Impairments Committee which is responsible for approving significant provisions and other impairment charges.

A pass loan shall mean a loan that is expected to be repaid as agreed. A loan is classified as pass where the Bank is not expected to face repayment difficulties because the present and projected cash flows are sufficient to repay the debt and the repayment schedule as established by the agreement is being followed. Loans in this category are reviewed by the Bank's management on at least an annual basis.

A special mention loan shall mean a loan under close monitoring by the Bank's management on at least a quarterly basis. Loans in this category are currently still performing, but are potentially weak and present an undue credit risk exposure, but not to the point of justifying a classification of substandard.

A substandard loan shall mean a loan whose evident unreliability makes repayment doubfful and there is a threat of loss to the Bank unless the unreliability is averted. Loans in this category are under close monitoring by the Bank's management on at least a quarterly basis.

A non-accrual loan shall mean either management is of the opinion full payment of principal or interest is in doubt or that the principal or interest is 90 days past due unless it is a residential mortgage loan which is well secured and collection efforts are reasonably expected to result in amounts due. Loans in this category are under close monitoring by the Bank's management on at least a quarterly basis.

The amortized cost of loans by credit quality classifications and allowance for expected credit losses by class of loans is as follows:

| June 30, 2023 | Pass | Special mention | Substandard | Non-accrual | Total amortized cost | Allowance for expected credit losses | Total net loans |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commercial loans |  |  |  |  |  |  |  |
| Government | 276,433 | - | - | - | 276,433 | $(1,011)$ | 275,422 |
| Commercial and industrial | 273,622 | - | 887 | 18,424 | 292,933 | $(10,354)$ | 282,579 |
| Commercial overdrafts | 106,820 | - | - | 377 | 107,197 | (442) | 106,755 |
| Total commercial loans | 656,875 | - | 887 | 18,801 | 676,563 | $(11,807)$ | 664,756 |
|  |  |  |  |  |  |  |  |
| Commercial real estate loans |  |  |  |  |  |  |  |
| Commercial mortgage | 593,367 | 732 | 2,656 | 3,116 | 599,871 | $(1,518)$ | 598,353 |
| Construction | 6,240 | - | - | - | 6,240 | - | 6,240 |
| Total commercial real estate loans | 599,607 | 732 | 2,656 | 3,116 | 606,111 | $(1,518)$ | 604,593 |
|  |  |  |  |  |  |  |  |
| Consumer loans |  |  |  |  |  |  |  |
| Automobile financing | 19,364 | - | - | 120 | 19,484 | (78) | 19,406 |
| Credit card | 74,942 | - | 304 | - | 75,246 | $(1,961)$ | 73,285 |
| Overdrafts | 44,644 | - | - | 14 | 44,658 | (372) | 44,286 |
| Other consumer ${ }^{1}$ | 45,373 | - | 1,676 | 707 | 47,756 | (875) | 46,881 |
| Total consumer loans | 184,323 | - | 1,980 | 841 | 187,144 | $(3,286)$ | 183,858 |
|  |  |  |  |  |  |  |  |
| Residential mortgage loans | 3,361,636 | 38,000 | 124,695 | 35,338 | 3,559,669 | $(9,397)$ | 3,550,272 |
|  |  |  |  |  |  |  |  |
| Total | 4,802,441 | 38,732 | 130,218 | 58,096 | 5,029,487 | $(26,008)$ | 5,003,479 |

${ }^{1}$ Other consumer loans' amortized cost includes $\$ 8$ million of cash and portfolio secured lending and $\$ 32$ million of lending secured by buildings in construction or other collateral.

| December 31, 2022 | Pass | Special mention | Substandard | Non-accrual | Total amortized cost | Allowance for expected credit losses | Total net loans |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commercial loans |  |  |  |  |  |  |  |
| Government | 281,518 | - | - | - | 281,518 | $(1,368)$ | 280,150 |
| Commercial and industrial | 298,137 | - | 796 | 18,461 | 317,394 | $(10,359)$ | 307,035 |
| Commercial overdrafts | 123,874 | - | 632 | 45 | 124,551 | (416) | 124,135 |
| Total commercial loans | 703,529 | - | 1,428 | 18,506 | 723,463 | $(12,143)$ | 711,320 |
|  |  |  |  |  |  |  |  |
| Commercial real estate loans |  |  |  |  |  |  |  |
| Commercial mortgage | 613,090 | 2,082 | 1,503 | 3,182 | 619,857 | (884) | 618,973 |
| Construction | 7,474 | - | - | - | 7,474 | - | 7,474 |
| Total commercial real estate loans | 620,564 | 2,082 | 1,503 | 3,182 | 627,331 | (884) | 626,447 |
|  |  |  |  |  |  |  |  |
| Consumer loans |  |  |  |  |  |  |  |
| Automobile financing | 20,673 | - | - | 161 | 20,834 | (93) | 20,741 |
| Credit card | 77,419 | - | 295 | - | 77,714 | $(1,043)$ | 76,671 |
| Overdrafts | 44,414 | - | - | 6 | 44,420 | (355) | 44,065 |
| Other consumer ${ }^{1}$ | 56,699 | - | - | 801 | 57,500 | $(1,205)$ | 56,295 |
| Total consumer loans | 199,205 | - | 295 | 968 | 200,468 | $(2,696)$ | 197,772 |
|  |  |  |  |  |  |  |  |
| Residential mortgage loans | 3,419,186 | 8,132 | 102,413 | 40,398 | 3,570,129 | $(9,238)$ | 3,560,891 |
|  |  |  |  |  |  |  |  |
| Total | 4,942,484 | 10,214 | 105,639 | 63,054 | 5,121,391 | $(24,961)$ | 5,096,430 |

[^0]Based on the most recent analysis performed, the amortized cost of loans by year of origination and credit quality classification is as follows:

| June 30,2023 | Pass | Special <br> mention | Substandard | Non-accrual | Total <br> amortized <br> cost |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Loans by origination year | 251,363 | - | - | - | 251,363 |
| 2023 | 929,349 | - | - | 567 | 929,916 |
| 2022 | 611,501 | 3,094 | - | 3 | 614,598 |
| 2021 | 435,067 | 534 | 2,644 | - | 438,245 |
| 2020 | 651,238 | - | 6,205 | 3,128 | 660,571 |
| 2019 | $1,681,724$ | 34,854 | 121,067 | 54,005 | $\mathbf{1 , 8 9 1 , 6 5 0}$ |
| Prior | 242,199 | 250 | 302 | 393 | 243,144 |
| Overdrafts and credit cards | $4,802,441$ | 38,732 | 130,218 | 58,096 | $5,029,487$ |
| Total amortized cost |  |  |  |  |  |


| December 31, 2022 | Pass | Special <br> mention | Substandard | Non-accrualTotal <br> amortized <br> cost |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Loans by origination year | 971,776 |  |  |  |  |
| 2022 | 646,436 | - | - | 4 | 971,780 |
| 2021 | 485,944 | - | - | 20 | 646,456 |
| 2020 | 680,939 | - | 208 | 23 | 486,617 |
| 2019 | 393,623 | - | 12,133 | 1,355 | 407,111 |
| 2018 | $1,499,410$ | 9,767 | 91,795 | 58,483 | $1,659,455$ |
| Prior | 264,356 | 305 | 926 | 51 | 265,638 |
| Overdrafts and credit cards | $4,942,484$ | 10,214 | 105,639 | 63,054 | $5,121,391$ |
| Total amortized cost |  |  |  |  |  |

Age Analysis of Past Due Loans (Including Non-Accrual Loans)
The following tables summarize the past due status of the loans. The aging of past due amounts are determined based on the contractual delinquency status of payments under the loan and this aging may be affected by the timing of the last business day at period end. Loans less than 30 days past due are included in current loans.

| June 30, 2023 | $\begin{array}{r} 30-59 \\ \text { days } \end{array}$ | $\begin{array}{r} 60-89 \\ \text { days } \\ \hline \end{array}$ | More than 90 days | Total past due loans | Total current | $\begin{array}{r} \text { Total } \\ \text { amortized } \\ \text { cost } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commercial loans |  |  |  |  |  |  |
| Government | - | - | - | - | 276,433 | 276,433 |
| Commercial and industrial | 550 | 2 | 18,424 | 18,976 | 273,957 | 292,933 |
| Commercial overdrafts | - | - | 377 | 377 | 106,820 | 107,197 |
| Total commercial loans | 550 | 2 | 18,801 | 19,353 | 657,210 | 676,563 |
|  |  |  |  |  |  |  |
| Commercial real estate loans |  |  |  |  |  |  |
| Commercial mortgage | 466 | 361 | 3,116 | 3,943 | 595,928 | 599,871 |
| Construction | - | - | - | - | 6,240 | 6,240 |
| Total commercial real estate loans | 466 | 361 | 3,116 | 3,943 | 602,168 | 606,111 |
|  |  |  |  |  |  |  |
| Consumer loans |  |  |  |  |  |  |
| Automobile financing | 104 | 30 | 120 | 254 | 19,230 | 19,484 |
| Credit card | 530 | 230 | 304 | 1,064 | 74,182 | 75,246 |
| Overdrafts | - | - | 14 | 14 | 44,644 | 44,658 |
| Other consumer | 731 | 184 | 2,375 | 3,290 | 44,466 | 47,756 |
| Total consumer loans | 1,365 | 444 | 2,813 | 4,622 | 182,522 | 187,144 |
|  |  |  |  |  |  |  |
| Residential mortgage loans | 36,659 | 11,648 | 65,734 | 114,041 | 3,445,628 | 3,559,669 |
| Total amortized cost | 39,040 | 12,455 | 90,464 | 141,959 | 4,887,528 | 5,029,487 |


| December 31, 2022 | $\begin{array}{r} 30-59 \\ \text { days } \\ \hline \end{array}$ | $\begin{array}{r} 60-89 \\ \text { days } \\ \hline \end{array}$ | More than 90 days | Total past due loans | Total current | Total amortized cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commercial loans |  |  |  |  |  |  |
| Government | - | - | - | - | 281,518 | 281,518 |
| Commercial and industrial | 5 | - | 18,461 | 18,466 | 298,928 | 317,394 |
| Commercial overdrafts | - | - | 45 | 45 | 124,506 | 124,551 |
| Total commercial loans | 5 | - | 18,506 | 18,511 | 704,952 | 723,463 |
| Commercial real estate loans |  |  |  |  |  |  |
| Commercial mortgage | 363 | - | 3,181 | 3,544 | 616,313 | 619,857 |
| Construction | - | - | - | - | 7,474 | 7,474 |
| Total commercial real estate loans | 363 | - | 3,181 | 3,544 | 623,787 | 627,331 |
| Consumer loans |  |  |  |  |  |  |
| Automobile financing | 104 | 5 | 160 | 269 | 20,565 | 20,834 |
| Credit card | 423 | 231 | 295 | 949 | 76,765 | 77,714 |
| Overdrafts | - | - | 6 | 6 | 44,414 | 44,420 |
| Other consumer | 179 | 16 | 797 | 992 | 56,508 | 57,500 |
| Total consumer loans | 706 | 252 | 1,258 | 2,216 | 198,252 | 200,468 |
| Residential mortgage loans | 30,813 | 4,081 | 49,486 | 84,380 | 3,485,749 | 3,570,129 |
| Total amortized cost | 31,887 | 4,333 | 72,431 | 108,651 | 5,012,740 | 5,121,391 |

## Changes in Allowances For Credit Losses

The increase in the allowance for credit losses during the six months ended June 30, 2023 was primarily attributable to an increase in credit card provisions, changes in specific provisions on identified loans, changes in macroeconomic factors, such as GDP forecasts, and partially offset by net paydowns in the portfolio. As per the Bank's accounting policy, as disclosed in Note 2 of the December 31, 2022 Audited Consolidated Financial Statements, the Bank continuously collects and maintains attributes related to financial instruments within the scope of CECL, including current conditions, and reasonable and supportable assumptions about future economic conditions.

|  | Six months ended June 30, 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial | Commercial real estate | Consumer | Residential mortgage | Total |
| Balance at the beginning of period | 12,143 | 884 | 2,696 | 9,238 | 24,961 |
| Provision increase (decrease) | 356 | 644 | 621 | 560 | 2,181 |
| Recoveries of previous charge-offs | 67 | - | 564 | 306 | 937 |
| Charge-offs, by origination year |  |  |  |  |  |
| 2023 | - | - | - | - | - |
| 2022 | - | - | - | - | - |
| 2021 | - | - | (16) | - | (16) |
| 2020 | - | - | (20) | - | (20) |
| 2019 | - | - | - | - | - |
| Prior | (704) | (8) | (122) | (737) | $(1,571)$ |
| Overdrafts and credit cards | (62) | - | (431) | - | (493) |
| Other | 7 | (2) | (6) | 30 | 29 |
| Allowances for expected credit losses at end of period | 11,807 | 1,518 | 3,286 | 9,397 | 26,008 |


|  | Six months ended June 30, 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial | Commercial real estate | Consumer | Residential mortgage | Total |
| Balance at the beginning of period | 11,126 | 1,168 | 3,020 | 12,759 | 28,073 |
| Provision increase (decrease) | 874 | (259) | 316 | (574) | 357 |
| Recoveries of previous charge-offs | 1 | - | 617 | 187 | 805 |
| Charge-offs | (17) | - | $(1,346)$ | $(2,742)$ | $(4,105)$ |
| Other | (37) | - | (6) | (109) | (152) |
| Allowances for expected credit losses at end of period | 11,947 | 909 | 2,601 | 9,521 | 24,978 |

## Collateral-dependent loans

Management identified that the repayment of certain commercial and consumer mortgage loans is expected to be provided substantially through the operation or the sale of the collateral pledged to the Bank ("collateral-dependent loans"). The Bank believes that for the vast majority of loans identified as collateral-dependent, the sale of the collateral will be sufficient to fully reimburse the loan's carrying amount.

Non-Performing Loans
During the six months ended June 30, 2023, no interest was recognized on non-accrual loans. Non-performing loans at June 30, 2023 include PCD loans, which have all been on non-accrual status since their acquisition. No credit deteriorated loans were purchased during the period

|  | June 30, 2023 |  |  |  | December 31, 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Non-accrual loans with an allowance | Non-accrual loans without an allowance | Past <br> due more than 90 days and accruing | Total nonperforming loans | Non-accrual loans with an allowance | Non-accrual loans without an allowance | Past <br> due more than 90 days and accruing | Total nonperforming loans |
| Commercial loans |  |  |  |  |  |  |  |  |
| Commercial and industrial | 18,122 | 302 | - | 18,424 | 18,159 | 302 | - | 18,461 |
| Commercial overdrafts | - | 377 | - | 377 | - | 45 | - | 45 |
| Total commercial loans | 18,122 | 679 | - | 18,801 | 18,159 | 347 | - | 18,506 |
|  |  |  |  |  |  |  |  |  |
| Commercial real estate loans |  |  |  |  |  |  |  |  |
| Commercial mortgage | 1,469 | 1,647 | - | 3,116 | 1,494 | 1,688 | - | 3,182 |
| Total commercial real estate loans | 1,469 | 1,647 | - | 3,116 | 1,494 | 1,688 | - | 3,182 |
|  |  |  |  |  |  |  |  |  |
| Consumer loans |  |  |  |  |  |  |  |  |
| Automobile financing | 117 | 3 | - | 120 | 141 | 20 | - | 161 |
| Credit card | - | - | 304 | 304 | - | - | 295 | 295 |
| Overdrafts | - | 14 | - | 14 | - | 6 | - | 6 |
| Other consumer | 551 | 156 | 1,676 | 2,383 | 649 | 152 | - | 801 |
| Total consumer loans | 668 | 173 | 1,980 | 2,821 | 790 | 178 | 295 | 1,263 |
|  |  |  |  |  |  |  |  |  |
| Residential mortgage loans | 21,367 | 13,971 | 35,093 | 70,431 | 20,621 | 19,777 | 10,964 | 51,362 |
| Total non-performing loans | 41,626 | 16,470 | 37,073 | 95,169 | 41,064 | 21,990 | 11,259 | 74,313 |

Loan Modifications Made to Borrowers Experiencing Financial Difficulty (from January 1, 2023)
The following table summarizes the amortized cost basis of loan modifications made to borrowers experiencing financial difficulty during the six-month period ended June 30 , 2023.

| June 30, 2023 | Amortized cost basis |  |  | In \% of the class of loans | Weighted average financial effects |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Significant payment delay | Term extension | Interest rate reduction |  | Months of payment delay | Months of term extension | Interest rate reduction |
| Residential mortgage loans |  | 2,478 | 4,557 | 0.2 \% |  | 34 | 3.4 \% |

Age analysis of modified loans
As at June 30, 2023, except for $\$ 0.3$ million of residential mortgages for which a reduction in interest rate was granted and which are 30 to 59 days past due, all loans to borrowers experiencing financial difficulty for which a concession was granted in the preceding 6 month period are current.

Modified loans that subsequently defaulted
As at June 30, 2023, no loans to borrowers experiencing financial difficulty for which a concession was granted in the preceding 6 month period had a payment default.

Loans modified in a TDR (Prior to January 1, 2023)
As at December 31, 2022, the Bank had no loans that were modified in a TDR during the preceding 12 months that subsequently defaulted.

|  | December 31, 2022 |  |
| :--- | ---: | ---: |
| TDRs (prior to January 1, 2023) Outstanding | Accrual | Non-accrual |
| Commercial loans | 796 | - |
| Commercial real estate loans | 1,503 | 2,357 |
| Residential mortgage loans | 59,175 | 10,342 |
| Total TDRs outstanding | 61,474 | 12,699 |

Note 7: Credit risk concentrations
Concentrations of credit risk in the lending and off-balance sheet credit-related arrangements portfolios arise when a number of customers are engaged in similar business activities, are in the same geographic region, or when they have similar economic features that would cause their ability to meet contractual obligations to be similarly affected by changes in economic conditions. The Bank regularly monitors various segments of its credit risk portfolio to assess potential concentrations of risks and to obtain collateral when deemed necessary. In the Bank's commercial portfolio, risk concentrations are evaluated primarily by industry and by geographic region of loan origination. In the consumer portfolio, concentrations are evaluated primarily by products. Credit exposures include loans, guarantees and acceptances, letters of credit and commitments for undrawn lines of credit. Unconditionally cancellable credit cards and overdraft lines of credit are excluded from the tables below.

The following table summarizes the credit exposure of the Bank by geographic region. The exposure amounts disclosed below do not include accrued interest and are gross of allowances for credit losses and gross of collateral held.

| Geographic region | June 30, 2023 |  |  |  | December 31, 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cash due from banks, resell agreements and short-term investments | Loans | Off-balance sheet | Total credit exposure | Cash due from banks, resell agreements and short-term investments | Loans | Off-balance sheet | Total credit exposure |
| Belgium | 2,792 | - | - | 2,792 | 2,641 | - | - | 2,641 |
| Bermuda | 42,090 | 1,826,698 | 233,887 | 2,102,675 | 40,671 | 1,920,467 | 243,904 | 2,205,042 |
| Canada | 577,507 | - | - | 577,507 | 1,216,876 | - | - | 1,216,876 |
| Cayman | 32,526 | 1,202,234 | 208,014 | 1,442,774 | 36,609 | 1,236,373 | 233,599 | 1,506,581 |
| Germany | 3,808 | - | - | 3,808 | 20,422 | - | - | 20,422 |
| Guernsey | 2 | 644,163 | 216,294 | 860,459 | 1 | 674,562 | 199,714 | 874,277 |
| Ireland | 21,622 | - | - | 21,622 | 26,597 | - | - | 26,597 |
| Japan | 16,845 | - | - | 16,845 | 13,071 | - | - | 13,071 |
| Jersey | - | 172,802 | 15,120 | 187,922 | - | 150,769 | 35,042 | 185,811 |
| Norway | 363,271 | - | - | 363,271 | 99,777 | - | - | 99,777 |
| Switzerland | 1,401 | - | - | 1,401 | 2,748 | - | - | 2,748 |
| The Bahamas | 1,602 | 6,419 | - | 8,021 | 1,521 | 7,510 | - | 9,031 |
| United Kingdom | 473,743 | 1,177,171 | 69,529 | 1,720,443 | 715,750 | 1,131,710 | 108,406 | 1,955,866 |
| United States | 982,818 | - | - | 982,818 | 865,671 | - | - | 865,671 |
| Other | 4,234 | - | - | 4,234 | 2,781 | - | - | 2,781 |
| Total gross exposure | 2,524,261 | 5,029,487 | 742,844 | 8,296,592 | 3,045,136 | 5,121,391 | 820,665 | 8,987,192 |

Note 8: Deposits

By Maturity

| June 30, 2023 | Demand |  | Total demand deposits | Term |  |  |  | Totaltermdeposits | Total deposits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Non-interest bearing | Interest bearing |  | Within 3 months | 3 to 6 months | 6 to 12 months | After 12 months |  |  |
| Demand or less than \$100k ${ }^{1}$ | 2,838,416 | 6,029,833 | 8,868,249 | 40,082 | 10,322 | 16,802 | 11,565 | 78,771 | 8,947,020 |
| Term - \$100k or more | N/A | N/A | - | 2,277,348 | 296,292 | 590,854 | 80,538 | 3,245,032 | 3,245,032 |
| Total deposits | 2,838,416 | 6,029,833 | 8,868,249 | 2,317,430 | 306,614 | 607,656 | 92,103 | 3,323,803 | 12,192,052 |


|  | Demand |  | Total demand deposits | Term |  |  |  | $\begin{array}{r} \text { Total } \\ \text { term } \\ \text { deposits } \end{array}$ | Total deposits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| December 31, 2022 | Non-interest bearing | Interest bearing |  | Within 3 months | 3 to 6 months | 6 to 12 months | After 12 months |  |  |
| Demand or less than \$100k ${ }^{1}$ | 3,039,701 | 6,844,127 | 9,883,828 | 32,764 | 9,814 | 12,848 | 11,391 | 66,817 | 9,950,645 |
| Term - \$100k or more | N/A | N/A | - | 2,093,464 | 447,471 | 423,737 | 75,759 | 3,040,431 | 3,040,431 |
| Total deposits | 3,039,701 | 6,844,127 | 9,883,828 | 2,126,228 | 457,285 | 436,585 | 87,150 | 3,107,248 | 12,991,076 |

${ }^{1}$ The weighted-average interest rate on interest-bearing demand deposits as at June 30, 2023 is $0.67 \%$ (December 31, 2022: 0.47\%).

| By Type and Segment | June 30, 2023 |  |  | December 31, 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Payable on demand | Payable on a fixed date | Total | Payable on demand | Payable on a fixed date | Total |
| Bermuda | 3,795,231 | 771,666 | 4,566,897 | 3,813,274 | 674,895 | 4,488,169 |
| Cayman | 3,269,403 | 773,159 | 4,042,562 | 3,641,646 | 651,168 | 4,292,814 |
| Channel Islands and the UK | 1,803,615 | 1,778,978 | 3,582,593 | 2,428,908 | 1,781,185 | 4,210,093 |
| Total deposits | 8,868,249 | 3,323,803 | 12,192,052 | 9,883,828 | 3,107,248 | 12,991,076 |

## Note 9: Employee benefit plans

The Bank maintains trusteed pension plans including non-contributory defined benefit plans and a number of defined contribution plans, and provides post-retirement medical benefits to its qualifying retirees. The defined benefit provisions under the pension plans are generally based upon years of service and average salary during the relevant years of employment. The defined benefit and post-retirement medical plans are not open to new participants and are non-contributory and the funding required is provided by the Bank, based upon the advice of independent actuaries. The defined benefit pension plans are in the Bermuda, Guernsey and UK jurisdictions, and the defined benefit postretirement medical plan is in Bermuda. The Bank has a residual obligation on top of its defined contribution plan in Mauritius.

The Bank included an estimate of the 2023 Bank contribution and estimated benefit payments for the next ten years under the pension and post-retirement plans in its audited financial statements for the year-ended December 31, 2022. During the six months ended June 30, 2023, there have been no material revisions to these estimates.

|  | Three months ended |  |  | Six months ended |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | Line item in the consolidated statements <br> of operations | June 30, 2023 | June 30,2022 | June 30,2023 | June 30, 2022 |
| Defined benefit pension expense (income) |  |  |  |  |  |
| Interest cost | Non-service employee benefits expense | 1,346 | 759 | 2,678 | 1,539 |
| Expected return on plan assets | Non-service employee benefits expense | $(1,534)$ | $(1,665)$ | $(3,052)$ | $(3,374)$ |
| Amortization of net actuarial (gains) losses | Non-service employee benefits expense | 572 | 555 | 1,142 | 1,114 |
| Amortization of prior service (credit) cost | Non-service employee benefits expense | 20 | 20 | 39 | 44 |
| Settlement (gain) loss | Net other gains (losses) | - | 28 | - | $(820)$ |
| Total defined benefit pension expense (income) |  | 404 | $(303)$ | 807 | $(1,497)$ |

Post-retirement medical benefit expense (income)

| Service cost | Salaries and other employee benefits | 19 | 32 | 65 |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| Interest cost | Non-service employee benefits expense | 1,196 | 779 | 2,393 | 1,558 |
| Amortization of net actuarial (gains) losses | Non-service employee benefits expense | 131 | 361 | 262 | 722 |
| Amortization of prior service (credit) cost | Non-service employee benefits expense | $(334)$ | 131 | $(667)$ |  |
| Total post-retirement medical benefit expense (income) | 1,012 | 262 |  |  |  |

The components of defined benefit pension expense (income) and post-retirement benefit expense (income) other than the service cost component are included in the line item non-service employee benefits expense in the consolidated statements of income.

Note 10: Credit related arrangements, repurchase agreements and commitments
Commitments
The Bank enters into contractual commitments to extend credit, normally with fixed expiration dates or termination clauses, at specified rates and for specific purposes. Substantially all of the Bank's commitments to extend credit are contingent upon customers maintaining specific credit standards at the time of loan funding. Management assesses the credit risk associated with certain commitments to extend credit in determining the level of the allowance for expected credit losses.

The Bank has a facility with one of its custodians, whereby the Bank may offer up to US $\$ 200$ million of standby letters of credit to its customers on a fully secured basis. Under the standard terms of the facility, the custodian has the right to set-off against securities held of $110 \%$ of the utilized facility. At June 30, 2023, \$121.0 million (December 31, 2022: $\$ 121.3$ million) of standby letters of credit were issued under this facility.

| Outstanding unfunded commitments to extend credit | June 30, 2023 | December 31, 2022 |
| :--- | ---: | ---: |
| Commitments to extend credit | 564,324 |  |
| Documentary and commercial letters of credit | 2,331 |  |
| Total unfunded commitments to extend credit | 1,540 |  |
| Allowance for credit losses | 490,042 |  |

## Credit-Related Arrangements

Standby letters of credit and letters of guarantee are issued at the request of a Bank customer in order to secure the customer's payment or performance obligations to a third party. These guarantees represent an irrevocable obligation of the Bank to pay the third party beneficiary upon presentation of the guarantee and satisfaction of the documentary requirements stipulated therein, without investigation as to the validity of the beneficiary's claim against the customer. Generally, the term of the standby letters of credit does not exceed one year, while the term of the letters of guarantee does not exceed four years. The types and amounts of collateral security held by the Bank for these standby letters of credit and letters of guarantee are generally represented by deposits with the Bank or a charge over assets held in mutual funds.

The Bank considers the fees collected in connection with the issuance of standby letters of credit and letters of guarantee to be representative of the fair value of its obligation undertaken in issuing the guarantee. In accordance with applicable accounting standards related to guarantees, the Bank defers fees collected in connection with the issuance of standby letters of credit and letters of guarantee. The fees are then recognized in income proportionately over the life of the credit agreements. The following table presents the outstanding financial guarantees. Collateral is shown at estimated market value less selling cost. Where the collateral is cash, it is shown gross including accrued income.

|  | June 30, 2023 |  |  | December 31, 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Outstanding financial guarantees | Gross | Collateral | Net | Gross | Collateral | Net |
| Standby letters of credit | 249,303 | 242,153 | 7,150 | 250,543 | 243,393 | 7,150 |
| Letters of guarantee | 3,499 | 3,463 | 36 | 3,467 | 3,431 | 36 |
| Total | 252,802 | 245,616 | 7,186 | 254,010 | 246,824 | 7,186 |

## Repurchase agreements

The Bank utilizes repurchase agreements and resell agreements (reverse repurchase agreements) to manage liquidity. The risks of these transactions include changes in the fair value of the securities posted or received as collateral and other credit related events. The Bank manages these risks by ensuring that the collateral involved is appropriate and by monitoring the value of the securities posted or received as collateral on a daily basis.

As at June 30, 2023, the Bank had 5 open positions (December 31, 2022: 2) in resell agreements with a remaining maturity of less than 30 days involving pools of mortgages issued by US federal agencies. The amortized cost of these resell agreements is $\$ 59.7$ million (December 31, 2022: $\$ 59.9$ million) and is included in securities purchased under agreements to resell on the consolidated balance sheets. As at June 30, 2023, there were no positions (December 31, 2022: no positions) which were offset on the consolidated balance sheets to arrive at the carrying value, and there was no collateral amount which was available to offset against the future settlement amount.

## Legal Proceedings

There are actions and legal proceedings pending against the Bank and its subsidiaries which arose in the normal course of its business. Management, after reviewing all actions and proceedings pending against or involving the Bank and its subsidiaries, considers that the resolution of these matters would in the aggregate not be material to the consolidated financial position of the Bank, except as noted in the following paragraph.

As publicly announced, in November 2013, the US Attorney's Office for the Southern District of New York applied for and secured the issuance of so-called John Doe Summonses to six US financial institutions with which the Bank had correspondent bank relationships in connection with a US cross border tax investigation. On August 3, 2021, the Bank announced it had reached a resolution with the United States Department of Justice concerning this inquiry. The resolution is in the form of a non-prosecution agreement with a three-year term. The Bank paid $\$ 5.6$ million in respect of Forfeiture and Tax Restitution Amounts which is consistent with that previously provisioned for.

## Note 11: Leases

The Bank enters into operating lease agreements either as the lessee or the lessor, mostly for office and parking spaces as well as for small office equipment. The terms of the existing leases, including renewal options that are reasonably certain to be exercised, extend up to the year 2035. Certain lease payments will be adjusted during the related lease's term based on movements in the relevant consumer price index.

|  | Three months ended |  | Six months ended |  |
| :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Lease costs |  |  |  |  |
| Operating lease costs | 1,918 | 1,939 | 3,797 | 3,977 |
| Short-term lease costs | 640 | 576 | 1,222 | 924 |
| Sublease income | (186) | (306) | (558) | (647) |
| Total net lease cost | 2,372 | 2,209 | 4,461 | 4,254 |
| Operating lease income | 246 | 247 | 512 | 502 |
|  |  |  |  |  |
| Other information for the period |  |  |  |  |
| Right-of-use assets related to new operating lease liabilities | - | - | - | 138 |
| Operating cash flows from operating leases | 1,973 | 1,982 | 3,903 | 3,981 |


| Other information at end of period | June 30, 2023 | December 31, 2022 |
| :--- | ---: | ---: | ---: |
| Operating leases right-of-use assets (included in other assets on the balance sheets) | 33,404 | 33,641 |
| Operating lease liabilities (included in other liabilities on the balance sheets) | 32,639 | 32,965 |
| Weighted average remaining lease term for operating leases (in years) | 8.96 | 9.24 |
| Weighted average discount rate for operating leases | $5.40 \%$ | $5.40 \%$ |

The following table summarizes the maturity analysis of the Bank's commitments for long-term leases as at December 31, 2022:

| Year ending December 31 | Operating Leases |
| :--- | ---: |
| 2023 | 7,129 |
| 2024 | 6,457 |
| 2025 | 4,133 |
| 2026 | 3,357 |
| 2027 | 3,152 |
| 2028 \& thereafter | 17,735 |
| Total commitments | 41,963 |
| Less: effect of discounting cash flows to their present value | $(8,998)$ |
| Operating lease liabilities | 32,965 |

## Note 12: Segmented information

The Bank is managed by the Chairman \& Chief Executive Officer ("CEO") on a geographic basis. The Bank presents four reportable segments, three geographical and one other: Bermuda, Cayman, Channel Islands and the UK, and Other. The Other segment is composed of several operating segments that have been aggregated in accordance with GAAP. Each reportable segment has a managing director who reports to the Chairman \& CEO. The Chairman and CEO and the segment managing director have final authority over resource allocation decisions and performance assessment.

The geographic segments reflect this management structure and the manner in which financial information is currently evaluated by the Chairman \& CEO. Segment results are determined based on the Bank's management reporting system, which assigns balance sheet and income statement items to each of the geographic segments. The process is designed around the Bank's organizational and management structure and, accordingly, the results derived are not necessarily comparable with similar information published by other financial institutions. A description of each reportable segment and table of financial results is presented below.

Accounting policies of the reportable segments are the same as those described in Note 2 of the Bank's audited financial statements for the year ended December 31, 2022. Transactions between segments are accounted for on an accrual basis and are all eliminated upon consolidation. The Bank generally does not allocate assets, revenues and expenses among its business segments, with the exception of certain corporate overhead expenses and loan participation revenue and expenses. Loan participation revenue and expenses are allocated pro-rata based upon the percentage of the total loan funded by each jurisdiction participating in the loan.

The Bermuda segment provides a comprehensive range of retail, commercial and private banking services. Retail services are offered to individuals and small to medium-sized businesses through three branch locations and through internet banking, mobile banking, automated teller machines ("ATMs") and debit cards. Retail services include deposit services, consumer and mortgage lending, credit cards and personal insurance products. Commercial banking includes commercial lending and mortgages, cash management, payroll services, remote banking and letters of credit. Treasury services include money market and foreign exchange activities. Bermuda's wealth management offering consists of Butterfield Asset Management Limited, which provides investment management, advisory and brokerage services and Butterfield Trust (Bermuda) Limited, which provides trust, estate, company management and custody services. Bermuda is also the location of the Bank's head offices and accordingly, retains the unallocated corporate overhead expenses.

The Cayman segment provides a comprehensive range of retail, commercial and private banking services. Retail services are offered to individuals and small to medium-sized businesses through three branch locations and through internet banking, mobile banking, ATMs and debit cards. Retail services include deposit services, consumer and mortgage lending, credit cards and property/auto insurance. Commercial banking includes commercial lending and mortgages, cash management, payroll services, remote banking and letters of credit. Treasury services include money market and foreign exchange activities. Cayman's wealth management offering comprises investment management, advisory and brokerage services and Butterfield Trust (Cayman) Limited, which provides trust, estate and company management.

The Channel Islands and the UK segment includes the jurisdictions of Guernsey and Jersey (Channel Islands), and the UK. In the Channel Islands, a broad range of services are provided to private clients and financial intermediaries including mortgage lending, private banking and treasury services, internet banking, wealth management and fiduciary services. The jurisdiction also offers mortgage lending to the retail market. The UK jurisdiction provides mortgage services for high-value residential properties.

The Other segment includes the jurisdictions of The Bahamas, Canada, Mauritius, Singapore and Switzerland. These operating segments individually and collectively do not meet the quantitative threshold for segmented reporting and are therefore aggregated as non-reportable operating segments.

| Total Assets by Segment | June 30, 2023 |
| :--- | ---: |
| Dermuda | $5,268,967$ |
| Cayman | $4,339,888$ |
| Channel Islands and the UK | $4,405,365$ |
| Other | $4,566,144$ |
| Total assets before inter-segment eliminations | $4,626,183$ |
| Less: inter-segment eliminations | 35,874 |
| Total | 42,753 |


| Three months ended June 30, 2023 | Net interest income |  | Provision for credit (losses) recoveries | Non-interest income | ```Net revenue before gains and losses``` | Gains and losses | Total net revenue | Total expenses | Net income |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Customer | Intersegment |  |  |  |  |  |  |  |
| Bermuda | 45,978 | (660) | $(1,877)$ | 21,392 | 64,833 | 3,967 | 68,800 | 46,452 | 22,348 |
| Cayman | 33,261 | 1,402 | 171 | 15,444 | 50,278 | 2 | 50,280 | 15,559 | 34,721 |
| Channel Islands and the UK | 13,225 | (742) | 179 | 9,476 | 22,138 | (3) | 22,135 | 18,880 | 3,255 |
| Other | 11 | - | - | 8,578 | 8,589 | - | 8,589 | 7,913 | 676 |
| Total before eliminations | 92,475 | - | $(1,527)$ | 54,890 | 145,838 | 3,966 | 149,804 | 88,804 | 61,000 |
| Inter-segment eliminations | - | - | - | $(4,740)$ | $(4,740)$ | - | $(4,740)$ | $(4,740)$ | - |
| Total | 92,475 | - | $(1,527)$ | 50,150 | 141,098 | 3,966 | 145,064 | 84,064 | 61,000 |


| Three months ended June 30, 2022 | Net interest income |  | Provision for credit (losses) recoveries | Non-interest income | Net revenue before gains and losses | Gains and losses | Total net revenue | Total expenses | Net income |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Customer | Intersegment |  |  |  |  |  |  |  |
| Bermuda | 38,909 | (725) | 348 | 21,293 | 59,825 | 107 | 59,932 | 47,531 | 12,401 |
| Cayman | 25,712 | 441 | (921) | 17,063 | 42,295 | - | 42,295 | 15,301 | 26,994 |
| Channel Islands and the UK | 17,345 | 284 | (117) | 10,428 | 27,940 | (29) | 27,911 | 18,655 | 9,256 |
| Other | 3 | - | - | 7,463 | 7,466 | - | 7,466 | 6,988 | 478 |
| Total before eliminations | 81,969 | - | (690) | 56,247 | 137,526 | 78 | 137,604 | 88,475 | 49,129 |
| Inter-segment eliminations | - | - | - | $(4,436)$ | $(4,436)$ | - | $(4,436)$ | $(4,436)$ | - |
| Total | 81,969 | - | (690) | 51,811 | 133,090 | 78 | 133,168 | 84,039 | 49,129 |


| Six months ended June 30, 2023 | Net interest income |  | $\begin{array}{r} \text { Provision for } \\ \text { credit } \\ \text { (losses) } \\ \text { recoveries } \\ \hline \end{array}$ | Non-interest income | Net revenue before gains and losses | Gains and losses | Total net revenue | Total expenses | Net income |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Customer | Intersegment |  |  |  |  |  |  |  |
| Bermuda | 93,847 | $(1,881)$ | $(2,502)$ | 43,239 | 132,703 | 4,079 | 136,782 | 94,185 | 42,597 |
| Cayman | 67,862 | 2,811 | 206 | 32,295 | 103,174 | (1) | 103,173 | 30,908 | 72,265 |
| Channel Islands and the UK | 28,100 | (930) | 98 | 17,994 | 45,262 | (2) | 45,260 | 37,992 | 7,268 |
| Other | 21 | - | - | 16,211 | 16,232 | - | 16,232 | 15,158 | 1,074 |
| Total before eliminations | 189,830 | - | $(2,198)$ | 109,739 | 297,371 | 4,076 | 301,447 | 178,243 | 123,204 |
| Inter-segment eliminations | - | - | - | $(9,404)$ | $(9,404)$ | - | $(9,404)$ | $(9,404)$ | - |
| Total | 189,830 | - | $(2,198)$ | 100,335 | 287,967 | 4,076 | 292,043 | 168,839 | 123,204 |


| Six months ended June 30, 2022 | Net interest income |  | Provision for credit (losses) recoveries | Non-interest income | Net revenue before gains and losses | Gains and losses | Total net revenue | Total expenses | Net income |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Customer | Intersegment |  |  |  |  |  |  |  |
| Bermuda | 75,305 | $(1,237)$ | 892 | 42,317 | 117,277 | 24 | 117,301 | 93,874 | 23,427 |
| Cayman | 48,515 | 779 | (693) | 32,415 | 81,016 | - | 81,016 | 30,277 | 50,739 |
| Channel Islands and the UK | 34,013 | 458 | (189) | 21,267 | 55,549 | 857 | 56,406 | 37,806 | 18,600 |
| Other | 3 | - | - | 14,334 | 14,337 | - | 14,337 | 13,623 | 714 |
| Total before eliminations | 157,836 | - | 10 | 110,333 | 268,179 | 881 | 269,060 | 175,580 | 93,480 |
| Inter-segment eliminations | - | - | - | $(8,602)$ | $(8,602)$ | - | $(8,602)$ | $(8,602)$ | - |
| Total | 157,836 | - | 10 | 101,731 | 259,577 | 881 | 260,458 | 166,978 | 93,480 |

Note 13: Derivative instruments and risk management

The Bank uses derivatives for risk management purposes and to meet the needs of its customers. The Bank's derivative contracts principally involve over-the-counter ("OTC") transactions that are negotiated privately between the Bank and the counterparty to the contract and include interest rate contracts and foreign exchange contracts.

The Bank may pursue opportunities to reduce its exposure to credit losses on derivatives by entering into International Swaps and Derivatives Association master agreements ("ISDAs"). Depending on the nature of the derivative transaction, bilateral collateral arrangements may be used as well. When the Bank is engaged in more than one outstanding derivative transaction with the same counterparty, and also has a legally enforceable master netting agreement with that counterparty, the net marked-to-market exposure represents the netting of the positive and negative exposures with that counterparty. When there is a net negative exposure, the Bank regards its credit exposure to the counterparty as being zero. The net marked-to-market position with a particular counterparty represents a reasonable measure of credit risk when there is a legally enforceable master netting agreement between the Bank and that counterparty.

Certain of these agreements contain credit risk-related contingent features in which the counterparty has the option to accelerate cash settlement of the Bank's net derivative liabilities with the counterparty in the event the Bank's credit rating falls below specified levels or the liabilities reach certain levels.

All derivative financial instruments, whether designated as hedges or not, are recorded on the consolidated balance sheets at fair value within other assets or other liabilities. These amounts include the effect of netting. The accounting for changes in the fair value of a derivative in the consolidated statements of operations depends on whether the contract has been designated as a hedge and qualifies for hedge accounting.

Notional Amounts
The notional amounts are not recorded as assets or liabilities on the consolidated balance sheets as they represent the face amount of the contract to which a rate or price is applied to determine the amount of cash flows to be exchanged. Notional amounts represent the volume of outstanding transactions and do not represent the potential gain or loss associated with market risk or credit risk of such instruments. Credit risk is limited to the positive fair value of the derivative instrument, which is significantly less than the notional amount.

## Fair Value

Derivative instruments, in the absence of any compensating up-front cash payments, generally have no market value at inception. They obtain value, positive or negative, as relevant interest rates, exchange rates, equity or commodity prices or indices change. The potential for derivatives to increase or decrease in value as a result of the foregoing factors is generally referred to as market risk. Market risk is managed within clearly defined parameters as prescribed by senior management of the Bank. The fair value is defined as the profit or loss associated with replacing the derivative contracts at prevailing market prices.

## Risk Management Derivatives

The Bank enters into interest derivative contracts as part of its overall interest rate risk management strategy to minimize significant unplanned fluctuations in earnings that are caused by interest rate volatility. The Bank's goal is to manage interest rate sensitivity by modifying the repricing or maturity characteristics of certain consolidated balance sheet assets and liabilities so that movements in interest rates do not adversely affect the net interest margin. Derivative instruments that are used as part of the Bank's risk management strategy include interest rate swap contracts that have indices related to the pricing of specific consolidated balance sheet assets and liabilities. Interest rate swaps generally involve the exchange of fixed and variable-rate interest payments between two parties, based on a common notional principal amount and maturity date. The Bank uses foreign currency derivative instruments to hedge its exposure to foreign currency risk. Certain hedging relationships are formally designated and qualify for hedge accounting as fair value or net investment hedges. Risk management derivatives comprise fair value hedges, net investment hedges and derivatives not formally designated as hedges as described below.

Fair value hedges include designated currency swaps that are used to minimize the Bank's exposure to variability in the amortized cost of AFS investments due to movements in foreign exchange rates. The foreign exchange movement on the unrealized gain or loss on the AFS investments is not considered to be part of the hedging relationship and continues to be recognized in AOCIL.The effective portion of changes in the amortized cost of the hedged items attributable to foreign exchange rates is recognized in current year earnings consistent with the related change in fair value of the hedging instrument. For fair value hedges, hedging effectiveness of the hedged item and the hedging instrument are assessed and managed at inception and on an ongoing basis using a partial-term method.

Net investment hedges include designated currency swaps and qualifying non-derivative instruments and are used to minimize the Bank's exposure to variability in the foreign currency translation of net investments in foreign operations. The effective portion of changes in the fair value of the hedging instrument is recognized in AOCIL consistent with the related translation gains and losses of the hedged net investment. For net investment hedges, all critical terms of the hedged item and the hedging instrument are matched at inception and on an ongoing basis to minimize the risk of hedge ineffectiveness.

For derivatives designated as net investment hedges, the Bank follows the method based on changes in spot exchange rates. Accordingly:

- The change in the fair value of the derivative instrument that is reported in AOCIL (i.e., the effective portion) is determined by the changes in spot exchange rates.
- The change in the fair value of the derivative instrument attributable to changes in the difference between the forward rate and spot rate are excluded from the measure of the hedge ineffectiveness and that difference is reported directly in the consolidated statements of operations under foreign exchange revenue.
Amounts recorded in AOCIL are reclassified to earnings only upon the sale or substantial liquidation of an investment in a foreign subsidiary.
For foreign-currency-denominated debt instruments that are designated as hedges of net investments in foreign operations, the translation gain or loss that is recorded in AOCIL is based on the spot exchange rate between the reporting currency of the Bank and the functional currency of the respective subsidiary. See Note 20: Accumulated other comprehensive income (loss) for details on the amount recognized into AOCIL during the current period from translation gain or loss.

Derivatives not formally designated as hedges are entered into to manage the foreign exchange risk of the Bank's exposure. Changes in the fair value of derivative instruments not formally designated as hedges are recognized in foreign exchange revenue.

## Client service derivatives

The Bank enters into foreign exchange contracts primarily to meet the foreign exchange needs of its customers. Foreign exchange contracts are agreements to exchange specific amounts of currencies at a future date at a specified rate of exchange. Changes in the fair value of client services derivative instruments are recognized in foreign exchange revenue.

The following table shows the aggregate notional amounts of derivative contracts outstanding listed by type and respective gross positive or negative fair values and classified by those used for risk management (sub-classified as hedging and those that do not qualify for hedge accounting), client services and credit derivatives. The fair value of derivatives is recorded in the consolidated balance sheets in other assets and other liabilities. Gross positive fair values are recorded in other assets and gross negative fair values are recorded in other liabilities, subject to netting when master netting agreements are in place.


In addition to the above, as at June 30, 2023 foreign denominated deposits of $£ 279.6$ million (December 31, 2022: $£ 235.5$ million) and CHF 0.4 million (December 31, 2022: CHF 0.4 million) were designated as a hedge of foreign exchange risk associated with the net investment in foreign operations.

We manage derivative exposure by monitoring the credit risk associated with each counterparty using counterparty specific credit risk limits, using master netting arrangements where appropriate and obtaining collateral. The Bank elected to offset in the consolidated balance sheets certain gross derivative assets and liabilities subject to netting agreements.

The Bank also elected not to offset certain derivative assets or liabilities and all collateral received or paid that the Bank or the counterparties could legally offset in the event of default. In the tables below, these positions are deducted from the net fair value presented in the consolidated balance sheets in order to present the net exposures. The
collateral values presented in the following table are limited to the related net derivative asset or liability balance and, accordingly, do not include excess collateral received or paid.

|  | Gross fair value recognized | Less: offset applied under master netting agreements | Net fair value presented in the consolidated balance sheets | Less: positions not offset in the consolidated balance sheets |  | Net exposures |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June 30, 2023 |  |  |  | Gross fair value of derivatives | Cash collateral received / paid |  |
| Derivative assets |  |  |  |  |  |  |
| Spot and forward foreign exchange and currency swaps | 9,007 | $(6,605)$ | 2,402 | - | - | 2,402 |
|  |  |  |  |  |  |  |
| Derivative liabilities |  |  |  |  |  |  |
| Spot and forward foreign exchange and currency swaps | 16,498 | $(6,605)$ | 9,893 | - | $(4,048)$ | 5,845 |
| Net negative fair value |  |  | $(7,491)$ |  |  |  |


|  | Gross fair value recognized | Less: offset applied under master netting agreements | Net fair value presented in the consolidated balance sheets | Less: positions not offset in the consolidated balance sheets |  | Net exposures |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| December 31, 2022 |  |  |  | Gross fair value of derivatives | Cash collateral received / paid |  |
| Derivative assets |  |  |  |  |  |  |
| Spot and forward foreign exchange and currency swaps | 13,167 | $(6,658)$ | 6,509 | - | (9) | 6,500 |
|  |  |  |  |  |  |  |
| Derivative liabilities |  |  |  |  |  |  |
| Spot and forward foreign exchange and currency swaps | 12,912 | $(6,658)$ | 6,254 | - | (352) | 5,902 |
| Net positive fair value |  |  | 255 |  |  |  |

The following tables show the location and amount of gains (losses) recorded in either the consolidated statements of operations or consolidated statements of comprehensive income on derivative instruments outstanding.

| Derivative instrument | Consolidated statements of operations line item | Three months ended |  | Six months ended |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Spot and forward foreign exchange | Foreign exchange revenue | (88) | (122) | 38 | 16 |
| Currency swaps, not designated as hedge | Foreign exchange revenue | $(6,091)$ | 17,418 | $(8,434)$ | 6,273 |
| Currency swaps - fair value hedges | Foreign exchange revenue | 69 | 520 | 967 | $(4,086)$ |
| Total net gains (losses) recognized in net income |  | $(6,110)$ | 17,816 | $(7,429)$ | 2,203 |
|  |  | Three months ended |  | Six months ended |  |
| Derivative instrument | Consolidated statements of comprehensive income line item | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Currency swaps - net investment hedge | Unrealized net gains (losses) on translation of net investment in foreign operations | (828) | $(1,538)$ | (317) | (847) |
| Total net gains (losses) recognized in comprehensive income |  | (828) | $(1,538)$ | (317) | (847) |

Note 14: Fair value measurements

The following table presents the financial assets and liabilities that are measured at fair value on a recurring basis. Management classifies these items based on the type of inputs used in their respective fair value determination as described in Note 2 of the Bank's audited financial statements for the year ended December 31, 2022.

Management reviews the price of each security monthly, comparing market values to expectations and to the prior month's price. Management's expectations are based upon knowledge of prevailing market conditions and developments relating to specific issuers and/or asset classes held in the investment portfolio. Where there are unusual or significant price movements, or where a certain asset class has performed out-of-line with expectations, the matter is reviewed by management.

Financial instruments in Level 1 include US and UK Government Treasury notes.
Financial instruments in Level 2 include government debt securities, mortgage-backed securities and other asset-backed securities, forward foreign exchange contracts and mutual funds not actively traded.

Financial instruments in Level 3 included asset-backed securities for which the market was relatively illiquid and for which information about actual trading prices was not readily available.

There were no transfers between Level 1 and Level 2 or Level 2 and Level 3 during the six months ended June 30, 2023. During the year ended December 31, 2022, there were no transfers between Level 1 and Level 2. There was a transfer out of Level 3 into Level 2 due to increased price observability during the year ended December $31,2022$.

|  | June 30, 2023 |  |  | December 31, 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fair value |  |  | Total carrying amount fair value | Fair value |  |  |  |
|  | Level 1 | Level 2 | Level 3 |  | Level 1 | Level 2 | Level 3 |  |
| Items that are recognized at fair value on a recurring basis: |  |  |  |  |  |  |  |  |
| Financial assets |  |  |  |  |  |  |  |  |
| Equity securities |  |  |  |  |  |  |  |  |
| Mutual funds | - | - | - | - | - | 236 | - | 236 |
| Total equity securities | - | - | - | - | - | 236 | - | 236 |
| Available-for-sale investments |  |  |  |  |  |  |  |  |
| US government and federal agencies | 846,428 | 819,508 | - | 1,665,936 | 838,938 | 873,838 | - | 1,712,776 |
| Non-US governments debt securities | 242,002 | 22,392 | - | 264,394 | 229,071 | 22,392 | - | 251,463 |
| Asset-backed securities - Student loans | - | 1,087 | - | 1,087 | - | 5,626 | - | 5,626 |
| Residential mortgage-backed securities | - | 18,143 | - | 18,143 | - | 19,000 | - | 19,000 |
| Total available-for-sale | 1,088,430 | 861,130 | - | 1,949,560 | 1,068,009 | 920,856 | - | 1,988,865 |
|  |  |  |  |  |  |  |  |  |
| Other assets - Derivatives | - | 2,402 | - | 2,402 | - | 6,509 | - | 6,509 |
|  |  |  |  |  |  |  |  |  |
| Financial liabilities |  |  |  |  |  |  |  |  |
| Other liabilities - Derivatives | - | 9,893 | - | 9,893 | - | 6,254 | - | 6,254 |

Level 3 Reconciliation
The Level 3 financial instrument, was a federal family education loan program guaranteed student loan security and was valued using a non-binding quote from an external security pricing service. During the year ended December 31, 2022, this instrument was transferred to Level 2 due to increased price observability.

The table below summarizes realized and unrealized gains and losses for Level 3 assets at the reporting date.

|  | Six months ended June 30,2023 | Year ended December 31, 2022 |
| :---: | :---: | :---: |
|  | Available-for-sale investments | Available-for-sale investments |
| Carrying amount at beginning of period | - | 13,174 |
| Proceeds from sales, paydowns and maturities | - | $(7,631)$ |
| Change in unrealized gains (losses) recognized in other comprehensive income | - | 102 |
| Realized and unrealized gains recognized in net income | - | (19) |
| Transfers in (out of) Level 3 out of (into) Level 2 - AFS | - | $(5,626)$ |
| Carrying amount at end of period | - | - |
| Cumulative gain (loss) recognized in other comprehensive income | - | (14) |

Items Other Than Those Recognized at Fair Value on a Recurring Basis:

|  | Level | June 30, 2023 |  |  | December 31, 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Carrying amount | Fair value | Appreciation / (depreciation) | Carrying amount | Fair value | Appreciation / (depreciation) |
| Financial assets |  |  |  |  |  |  |  |
| Cash and cash equivalents | Level 1 | 1,794,854 | 1,794,854 | - | 2,100,787 | 2,100,787 | - |
| Securities purchased under agreements to resell | Level 2 | 59,693 | 59,693 | - | 59,871 | 59,871 | - |
| Short-term investments | Level 1 | 669,714 | 669,714 | - | 884,478 | 884,478 | - |
| Investments held-to-maturity | Level 2 | 3,596,889 | 3,077,037 | $(519,852)$ | 3,738,080 | 3,197,508 | $(540,572)$ |
| Loans, net of allowance for credit losses | Level 2 | 5,003,479 | 4,934,377 | $(69,102)$ | 5,096,430 | 5,049,570 | $(46,860)$ |
| Other real estate owned ${ }^{1}$ | Level 2 | 1,165 | 1,165 | - | 800 | 800 | - |
|  |  |  |  |  |  |  |  |
| Financial liabilities |  |  |  |  |  |  |  |
| Term deposits | Level 2 | 3,323,803 | 3,328,070 | $(4,267)$ | 3,107,248 | 3,108,511 | $(1,263)$ |
| Long-term debt | Level 2 | 98,372 | 93,978 | 4,394 | 172,289 | 177,919 | $(5,630)$ |

[^1]Note 15: Interest rate risk
The following tables set out the assets, liabilities and shareholders' equity on the date of the earlier of contractual maturity, expected maturity or repricing date. Use of these tables to derive information about the Bank's interest rate risk position is limited by the fact that customers may choose to terminate their financial instruments at a date earlier than the contractual maturity or repricing date. Examples of this include fixed-rate mortgages, which are shown at contractual maturity but which may pre-pay earlier, and certain term deposits, which are shown at contractual maturity but which may be withdrawn before their contractual maturity subject to prepayment penalties. Investments are shown based on remaining contractual maturities. The remaining contractual principal maturities for mortgage-backed securities (primarily US government agencies) do not consider prepayments. Remaining expected maturities will differ from contractual maturities because borrowers may have the right to prepay obligations before the underlying mortgages mature.

June 30, 2023
Earlier of contractual maturity or repricing date

| (in \$ millions) | Within 3 months | 3 to 6 months | 6 to 12 months | 1 to 5 years | After 5 years | Non-interest bearing funds | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assets |  |  |  |  |  |  |  |
| Cash and cash equivalents | 1,701 | - | - | - | - | 94 | 1,795 |
| Securities purchased under agreement to resell | 60 | - | - | - | - | - | 60 |
| Short-term investments | 382 | 270 | 18 | - | - | - | 670 |
| Investments | 152 | 34 | 216 | 892 | 4,252 | - | 5,546 |
| Loans | 2,643 | 52 | 172 | 1,693 | 420 | 24 | 5,004 |
| Other assets | - | - | - | - | - | 435 | 435 |
| Total assets | 4,938 | 356 | 406 | 2,585 | 4,672 | 553 | 13,510 |
|  |  |  |  |  |  |  |  |
| Liabilities and shareholders' equity |  |  |  |  |  |  |  |
| Shareholders' equity | - | - | - | - | - | 950 | 950 |
| Demand deposits | 6,030 | - | - | - | - | 2,838 | 8,868 |
| Term deposits | 2,317 | 307 | 608 | 92 | - | - | 3,324 |
| Other liabilities | - | - | - | - | - | 270 | 270 |
| Long-term debt | - | - | - | 98 | - | - | 98 |
| Total liabilities and shareholders' equity | 8,347 | 307 | 608 | 190 | - | 4,058 | 13,510 |
|  |  |  |  |  |  |  |  |
| Interest rate sensitivity gap | $(3,409)$ | 49 | (202) | 2,395 | 4,672 | $(3,505)$ | - |
| Cumulative interest rate sensitivity gap | $(3,409)$ | $(3,360)$ | $(3,562)$ | $(1,167)$ | 3,505 | - | - |

December 31, 2022
Earlier of contractual maturity or repricing date

| (in \$ millions) | Within 3 months | $\begin{array}{r} 3 \text { to } 6 \\ \text { months } \end{array}$ | $6 \text { to } 12$ months | $\begin{array}{r} 1 \text { to } 5 \\ \text { years } \\ \hline \end{array}$ | After 5 years | Non-interest bearing funds | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assets |  |  |  |  |  |  |  |
| Cash and cash equivalents | 2,008 | - | - | - | - | 93 | 2,101 |
| Securities purchased under agreement to resell | 60 | - | - | - | - | - | 60 |
| Short-term investments | 406 | 422 | 56 | - | - | - | 884 |
| Investments | 6 | 8 | 179 | 943 | 4,592 | - | 5,728 |
| Loans | 2,927 | 35 | 166 | 1,533 | 406 | 29 | 5,096 |
| Other assets | - | - | - | - | - | 437 | 437 |
| Total assets | 5,407 | 465 | 401 | 2,476 | 4,998 | 559 | 14,306 |
|  |  |  |  |  |  |  |  |
| Liabilities and shareholders' equity |  |  |  |  |  |  |  |
| Shareholders' equity | - | - | - | - | - | 865 | 865 |
| Demand deposits | 6,819 | 25 | - | - | - | 3,040 | 9,884 |
| Term deposits | 2,126 | 457 | 437 | 87 | - | - | 3,107 |
| Other liabilities | - | - | - | - | - | 278 | 278 |
| Long-term debt | - | 75 | - | 97 | - | - | 172 |
| Total liabilities and shareholders' equity | 8,945 | 557 | 437 | 184 | - | 4,183 | 14,306 |
|  |  |  |  |  |  |  |  |
| Interest rate sensitivity gap | $(3,538)$ | (92) | (36) | 2,292 | 4,998 | $(3,624)$ | - |
| Cumulative interest rate sensitivity gap | $(3,538)$ | $(3,630)$ | $(3,666)$ | $(1,374)$ | 3,624 | - | - |

## Note 16: Long-term debt

On May 24, 2018, the Bank issued US $\$ 75$ million of Subordinated Lower Tier II capital notes. The notes were issued at par and due on June 1, 2028. The issuance was by way of a registered offering with US institutional investors. The notes are listed on the BSX in the specialist debt securities category. The proceeds of the issue were used, among others, to repay the entire amount of the US $\$ 47$ million outstanding subordinated notes series 2003-B. The notes issued pay a fixed coupon of $5.25 \%$ until June 1,2023 when it became redeemable in whole at the option of the Bank. The notes were priced at a spread of $2.27 \%$ over the 10 -year US Treasury yield. The Bank incurred $\$ 1.8$ million of costs directly related to the issuance of these capital notes. These costs have been capitalized directly against the carrying value of these notes on the balance sheet and amortized over the life of the notes. These notes were redeemed at face value in June 2023.

On June 11, 2020, the Bank issued US $\$ 100$ million of Subordinated Lower Tier II capital notes. The notes were issued at par and due on June 15,2030 . The issuance was by way of a registered offering with US institutional investors. The notes are listed on the BSX in the specialist debt securities category. The proceeds of the issue were used, among others, to repay the entire amount of the US $\$ 45$ million outstanding subordinated notes series 2005-B which matured on July 2 , 2020. The notes issued pay a fixed coupon of $5.25 \%$ until June 15,2025 when they become redeemable in whole at the option of the Bank. The notes were priced at a spread of $4.43 \%$ over the 10 -year US Treasury yield. The Bank incurred $\$ 2.3$ million of costs directly related to the issuance of these capital notes. These costs have been capitalized directly against the carrying value of these notes on the balance sheet, and will be amortized over the life of the notes.

No interest was capitalized during the six months ended June 30, 2023 and the year ended December 31, 2022.
In the event the Bank would be in a position to redeem long-term debt, priority would go to the redemption of the higher interest-bearing Series, subject to availability relative to the earliest date the Series is redeemable at the Bank's option.

The following table presents the contractual maturity and interest payments for long-term debt issued by the Bank as at June 30, 2023. The interest payments are calculated until contractual maturity using the current Secured Overnight Financing Rate ("SOFR").

|  |  |  |  |  |  | Interest payments until contractual maturity |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Long-term debt | Earliest date redeemable at the Bank's option | Contractual maturity date | Interest rate until date redeemable | Interest rate from earliest date redeemable to contractual maturity | Principal Outstanding | Within 1 year | 1 to 5 years | After 5 years |
| Bermuda |  |  |  |  |  |  |  |  |
| 2020 issuance | June 15, 2025 | June 15, 2030 | 5.25 \% | 3 months US\$ SOFR + 5.060\% | 100,000 | 5,250 | 36,151 | 20,582 |
| Unamortized debt issuance costs |  |  |  |  | $(1,628)$ |  |  |  |
| Long-term debt less unamortized debt issuance costs |  |  |  |  | 98,372 |  |  |  |

## Note 17: Earnings per share

Earnings per share have been calculated using the weighted average number of common shares outstanding during the period after deduction of the shares held as treasury stock. The dilutive effect of share-based compensation plans was calculated using the treasury stock method, whereby the proceeds received from the exercise of share-based awards are assumed to be used to repurchase outstanding shares, using the average market price of the Bank's shares for the period. Numbers of shares are expressed in thousands.

During the six months ended June 30, 2023, the average number of outstanding awards of unvested common shares was 1.4 million (June 30, 2022 : 1.0 million). Only awards for which the sum of 1) the expense that will be recognized in the future (i.e., the unrecognized expense) and 2 ) its exercise price, if any, was lower than the average market price of the Bank's common shares were considered dilutive and, therefore, included in the computation of diluted earnings per share. An award's unrecognized expense is also considered to be the proceeds the employees would need to pay to purchase accelerated vesting of the awards. For the purposes of calculating dilution, such proceeds are assumed to be used by the Bank to buy back common shares at the average market price. The weighted-average number of outstanding awards, net of the assumed weightedaverage number of common shares bought back, is included in the number of diluted participating shares.

|  | Three months ended |  | Six months ended |  |
| :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Net income | 61,000 | 49,129 | 123,204 | 93,480 |
| Basic Earnings Per Share |  |  |  |  |
| Weighted average number of common shares issued | 50,139 | 50,223 | 50,238 | 50,173 |
| Weighted average number of common shares held as treasury stock | (619) | (619) | (619) | (619) |
| Weighted average number of common shares (in thousands) | 49,520 | 49,604 | 49,619 | 49,554 |
|  |  |  |  |  |
| Basic Earnings Per Share | 1.23 | 0.99 | 2.48 | 1.89 |
|  |  |  |  |  |
| Diluted Earnings Per Share |  |  |  |  |
| Weighted average number of common shares | 49,520 | 49,604 | 49,619 | 49,554 |
| Net dilution impact related to awards of unvested common shares | 370 | 168 | 360 | 252 |
| Weighted average number of diluted common shares (in thousands) | 49,890 | 49,772 | 49,979 | 49,806 |
|  |  |  |  |  |
| Diluted Earnings Per Share | 1.22 | 0.99 | 2.47 | 1.88 |

Note 18: Share-based payments
The common shares transferred to employees under all share-based payments are either taken from the Bank's common treasury shares or from newly issued shares. All sharebased payments are settled by the ultimate parent company which, pursuant to Bermuda law, is not taxed on income. There are no income tax benefits in relation to the issue of such shares as a form of compensation.

In conjunction with the 2010 capital raise, the Board of Directors approved the 2010 Omnibus Plan (the " 2010 Plan"). Under the 2010 Plan, $5 \%$ of the Bank's fully diluted common shares, equal to approximately 2.95 million shares, were initially available for grant to certain officers in the form of stock options or unvested share awards. Both types of awards are detailed below. In 2012 and 2016, the Board of Directors approved an increase to the equivalent number of shares allowed to be granted under the 2010 Plan to 5.0 million and 7.5 million shares, respectively.

In May 2020, the Board of Directors approved the 2020 Omnibus Plan (the "2020 Plan") which replaces the 2010 Plan. Under the 2020 Plan, 3.0 million shares are initially available for grant to employees in the form of stock options or unvested share awards. Both types of awards are detailed below.

Stock Option Awards

## 2010 and 2020 Plans

Under the 2010 and 2020 Plans, options are awarded to Bank employees and executive management, based on predetermined vesting conditions that entitle the holder to purchase one common share at a subscription price usually equal to the price of the most recently traded common share when granted and have a term of 10 years. The subscription price is reduced for all special dividends declared by the Bank. Stock option awards granted under the 2010 and 2020 Plans vest based on two specific types of vesting conditions i.e., time and performance conditions, as detailed below:

## Time vesting condition

$50 \%$ of each option award was granted in the form of time vested options and vested $25 \%$ on each of the second, third, fourth and fifth anniversaries of the effective grant date.

In addition to the time vesting conditions noted above, the options will generally vest immediately:

- by reason of the employee's death or disability,
- upon termination, by the Bank, of the holder's employment, unless if in relation with the holder's misconduct, or
- in limited circumstances and specifically approved by the Board, as stipulated in the holder's employment contract.

In the event of the employee's resignation, any unvested portion of the awards shall generally be forfeited and any vested portion of the options shall generally remain exercisable during the 90 -day period following the termination date or, if earlier, until the expiration date, and any vested portion of the options not exercised as of the expiration of such period shall be forfeited without any consideration therefore.

## Performance vesting condition

$50 \%$ of each option award was granted in the form of performance options and would vest (partially or fully) on a "valuation event" date (the date that any of the March 2,2010 new investors transfers at least $5 \%$ of the total number of common shares or the date that there is a change in control and any of the new investors realize a predetermined multiple of invested capital ("MOIC")). On September 21, 2016, it was determined that a valuation event occurred during which a new investor realized a MOIC of more than $200 \%$ of the original invested capital of $\$ 12.09$ per share and accordingly, all outstanding unvested performance options vested.

Changes in Outstanding Stock Option Plans
There were no stock options outstanding as at June 30, 2023 and December 31, 2022.

## Share Based Plans

Recipients of unvested share awards are entitled to the related common shares at no cost, at the time the award vests. Recipients of unvested shares may be entitled to receive additional unvested shares having a value equal to the cash dividends that would have been paid had the unvested shares been issued and vested. Such additional unvested shares granted as dividend equivalents are subject to the same vesting schedule and conditions as the underlying unvested shares.

Unvested shares subject only to the time vesting condition generally vest upon retirement, death, disability or upon termination, by the Bank, of the holder's employment unless if in connection with the holder's misconduct. Unvested shares subject to both time vesting and performance vesting conditions remain outstanding and unvested upon retirement and will vest only if the performance conditions are met. Unvested shares can also vest in limited circumstances and if specifically approved by the Board, as stipulated in the holder's employment contract. In all other circumstances, unvested shares are generally forfeited when employment ends.

The grant date weighted average fair value of unvested share awards granted in the six months ended June 30, 2023 was $\$ 32.94$ per share (December 31, 2022 : $\$ 35.05$ per share). The Bank expects to settle these awards by issuing new shares.

Employee Deferred Incentive Program ("EDIP")
Under the Bank's EDIP, shares are awarded to Bank employees and executive management based on the time vesting condition, which states that the shares will vest equally over a three-year period from the effective grant date.

## Executive Long-Term Incentive Share Program ("ELTIP")

Under the Bank's ELTIP, performance shares as well as time-vested shares were awarded to executive management. The performance shares will generally vest upon the achievement of certain performance targets in the three-year period from the effective grant date. The time-vested shares will generally vest over the three-year period from the effective grant date.

## Employee Share Purchase Plan ("ESPP")

The Bank's ESPP was approved in July 2021 and registered in November 2021. The first offering period started in March 2022. Under the Bank's ESPP, eligible employees may elect to contribute up to $15 \%$ of their regular compensation toward the purchase of the Bank's shares at a $10 \%$ discount from market price on the closing date of each offering period. The ESPP specifies two consecutive six month offering periods per year. In the case of termination of employment or voluntary partial or full withdrawal from the plan, the related current offering period ESPP contributions are refunded to the employee and thus cannot be used to purchase shares under the ESPP. During the six months ended June 30, 2023, 12,523 shares (December 31, 2022: 10,143) were issued under the ESPP Plan.

Changes in Outstanding ELTIP and EDIP awards (in thousands of shares transferable upon vesting)

|  | Six months ended |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
|  |  | June 30, 2023 | June 30, 2022 |  |  |
|  |  | EDIP | ELTIP | EDIP | ELTIP |
| Outstanding at beginning of period | 621 | 705 | 297 | 704 |  |
| Granted | 178 | 362 | 111 | 262 |  |
| Vested (fair value in $2023: \$ 10.6$ million, 2022: $\$ 16.7$ million) | $(133)$ | $(185)$ | $(145)$ | $(278)$ |  |
| Outstanding at end of period | 666 | 882 | 263 | 688 |  |

Share-based Compensation Cost Recognized in Net Income

|  |  |  | Six months ended |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | June 30, 2023 | June 30, 2022 |
|  |  |  | $\begin{gathered} \hline \text { EDIP and } \\ \text { ELTIP } \end{gathered}$ | $\begin{gathered} \mathrm{EDIP} \text { and } \\ \mathrm{ELTIP} \end{gathered}$ |
| Cost recognized in net income |  |  | 9,285 | 7,070 |
| Unrecognized Share-based Compensation Cost |  |  |  |  |
|  | June 3 | , 2023 | December 3 | 1,2022 |
|  | Unrecognized cost | Weighted average years over which it is expected to be recognized | Unrecognized cost | Weighted average years over which it is expected to be recognized |
| EDIP | 14,575 | 2.99 | 14,234 | 3.35 |
|  |  |  |  |  |
| ELTIP |  |  |  |  |
| Performance vesting shares | 17,119 | 2.10 | 10,232 | 1.75 |
| Total unrecognized expense | 31,694 |  | 24,466 |  |

Note 19: Share repurchase programs
From time to time, the Bank may seek to repurchase and retire equity securities of the Bank, through cash purchases, privately negotiated transactions, or otherwise. Such transactions, if any, depend on prevailing market conditions, liquidity and capital requirements, contractual restrictions, and other factors.

Common Share Repurchase Program
On December 2, 2019, the Board approved a common share repurchase program, authorizing the purchase of up to 3.5 million common shares through to February $28,2021$. The program came into effect on December 20, 2019 following the completion of the previous program.

On February 10, 2021, the Board approved a common share repurchase program, authorizing the purchase of up to 2.0 million common shares through to February $28,2022$.
On February 14, 2022, the Board approved a common share repurchase program, authorizing the purchase of up to 2.0 million common shares through to February $28,2023$.
On February 13,2023 , the Board approved a new common share repurchase program, authorizing the purchase of up to 3.0 million common shares through to February 29 , 2024.

In the six months ended June 30, 2023, the Bank repurchased and retired 867,995 shares.

|  | Six months ended | Year ended December 31 |  |
| :--- | ---: | ---: | ---: | ---: |
| Common share repurchases | June 30,2023 | 2022 | 2021 |
| Acquired number of shares (to the nearest 1) | 867,995 | 102,000 | 534,828 |
| Average cost per common share | 27.19 | 38.21 | 36.93 |
| Total cost (in US dollars) | $23,599,594$ | $3,897,268$ | $19,753,336$ |

Note 20: Accumulated other comprehensive income (loss)

| Six months ended June 30, 2023 | Unrealized net gains (losses) on translation of net investment in foreign operations | Employee benefit plans adjustments |  |  |  |  | Total AOCIL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | gains (losses) <br> on HTM investments |  | Pension | Postretirement healthcare | Subtotal employee benefits plans |  |
| Balance at beginning of period | $(25,700)$ | $(91,212)$ | $(220,345)$ | $(47,905)$ | 7,710 | $(40,195)$ | $(377,452)$ |
| Other comprehensive income (loss), net of taxes | 356 | 4,631 | 14,058 | 1,022 | (405) | 617 | 19,662 |
| Balance at end of period | $(25,344)$ | $(86,581)$ | $(206,287)$ | $(46,883)$ | 7,305 | $(39,578)$ | $(357,790)$ |


| Six months ended June 30, 2022 | Unrealized net gains (losses) on translation of net investment in foreign operations | Unrealized net gains (losses) on HTM investments | Unrealized net gains (losses) on AFS investments | Employee benefit plans adjustments |  |  | Total AOCIL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Pension | Postretirement healthcare | Subtotal employee benefits plans |  |
| Balance at beginning of period | $(20,913)$ | 91 | $(21,982)$ | $(56,400)$ | $(25,713)$ | $(82,113)$ | $(124,917)$ |
| Transfer of AFS investments to HTM investments | - | $(99,143)$ | 99,143 | - | - | - |  |
| Other comprehensive income (loss), net of taxes | $(4,083)$ | 2,203 | $(229,252)$ | 1,625 | 984 | 2,609 | $(228,523)$ |
| Balance at end of period | $(24,996)$ | $(96,849)$ | $(152,091)$ | $(54,775)$ | $(24,729)$ | $(79,504)$ | $(353,440)$ |


| Net Change of AOCIL Components | Line item in the consolidated statements of operations, if any | Three months ended |  | Six months ended |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Net unrealized gains (losses) on translation of net investment in foreign operations adjustments |  |  |  |  |  |
| Foreign currency translation adjustments | N/A | 10,182 | $(25,414)$ | 17,669 | $(35,711)$ |
| Gains (losses) on net investment hedge | N/A | $(9,782)$ | 22,330 | $(17,313)$ | 31,628 |
| Net change |  | 400 | $(3,084)$ | 356 | $(4,083)$ |
| Held-to-maturity investment adjustments |  |  |  |  |  |
| Net unamortized gains (losses) transferred from AFS | N/A | - | $(52,972)$ | - | $(99,143)$ |
| Amortization of net gains (losses) to net income | Interest income on investments | 2,604 | 1,824 | 4,631 | 2,203 |
| Net change |  | 2,604 | $(51,148)$ | 4,631 | $(96,940)$ |
| Available-for-sale investment adjustments |  |  |  |  |  |
| Gross unrealized gains (losses) | N/A | $(14,562)$ | $(73,305)$ | 16,353 | $(231,608)$ |
| Net unrealized (gains) losses transferred to HTM | N/A | - | 52,972 | - | 99,143 |
| Transfer of realized (gains) losses to net income | Net realized gains (losses) on AFS investments | 3 | - | 11 | - |
| Foreign currency translation adjustments of related balances | N/A | $(1,199)$ | 1,929 | $(2,306)$ | 2,356 |
| Net change |  | $(15,758)$ | $(18,404)$ | 14,058 | $(130,109)$ |
| Employee benefit plans adjustments |  |  |  |  |  |
| Defined benefit pension plan |  |  |  |  |  |
| Net actuarial gain (loss) | N/A | - | - | - | 348 |
| Net loss (gain) on settlement reclassified to net income | Net other gains (losses) | - | 28 | - | (820) |
| Amortization of net actuarial (gains) losses | Non-service employee benefits expense | 572 | 555 | 1,142 | 1,114 |
| Amortization of prior service (credit) cost | Non-service employee benefits expense | 20 | 20 | 39 | 44 |
| Foreign currency translation adjustments of related balances balances | N/A | (90) | 653 | (159) | 939 |
| Net change |  | 502 | 1,256 | 1,022 | 1,625 |
| Post-retirement healthcare plan |  |  |  |  |  |
| Amortization of net actuarial (gains) losses | Non-service employee benefits expense | 131 | 361 | 262 | 722 |
| Amortization of prior service (credit) cost | Non-service employee benefits expense | (334) | 131 | (667) | 262 |
| Net change |  | (203) | 492 | (405) | 984 |
| Other comprehensive income (loss), net of taxes |  | $(12,455)$ | $(70,888)$ | 19,662 | $(228,523)$ |

Note 21: Capital structure

## Authorized Capital

The Bank trades on the New York Stock Exchange under the ticker symbol "NTB" and on the BSX under the symbol "NTB.BH"
The par value of each issued common share and each authorized but unissued common share is BM $\$ 0.01$ and the authorized share capital of the Bank comprises $2,000,000,000$ common shares of par value BM $\$ 0.01$ each, $6,000,000,000$ non-voting ordinary shares of par value BM $\$ 0.01$ each, $110,200,001$ preference shares of par value US $\$ 0.01$ each and $50,000,000$ preference shares of par value $£ 0.01$ each.

Dividends Declared
During the six months ended June 30,2023 , the Bank declared and paid cash dividends of $\$ 0.88$ (June 30,2022 : $\$ 0.88$ ) for each common share as of the related record date.
The Bank is required to comply with Section 54 of the Companies Act 1981 issued by the Government of Bermuda (the "Companies Act") each time a dividend is declared or paid by the Bank and also obtain a letter of no objection from the BMA pursuant to the Banks and Deposit Companies Act 1999 for any dividends declared. The Bank has complied with Section 54 and has obtained the BMA's letter of no objection for all dividends declared during the periods presented.

Regulatory Capital
The Bank's regulatory capital is determined in accordance with current Basel III guidelines as issued by the BMA. The Bank is fully compliant with all regulatory capital requirements to which it is subject, and it maintains capital ratios in excess of regulatory minimums as at June 30,2023 and December 31, 2022. The following table sets forth the Bank's capital adequacy in accordance with the Basel III framework:

|  | June 30, 2023 |  | December 31, 2022 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Actual | Regulatory minimum | Actual | Regulatory minimum |
| Capital |  |  |  |  |
| CET 1 capital | 1,052,203 | N/A | 983,342 | N/A |
| Tier 1 capital | 1,052,203 | N/A | 983,342 | N/A |
| Tier 2 capital | 109,143 | N/A | 183,640 | N/A |
| Total capital | 1,161,346 | N/A | 1,166,982 | N/A |
|  |  |  |  |  |
| Risk Weighted Assets | 4,627,552 | N/A | 4,843,370 | N/A |
|  |  |  |  |  |
| Leverage Ratio Exposure Measure | 13,899,229 | N/A | 14,774,309 | N/A |
|  |  |  |  |  |
| Capital Ratios (\%) |  |  |  |  |
| CET 1 capital | 22.7 \% | 10.0 \% | 20.3 \% | 10.0 \% |
| Tier 1 capital | 22.7 \% | 11.5 \% | 20.3 \% | $11.5 \%$ |
| Total capital | 25.1 \% | 13.5 \% | 24.1 \% | 13.5 \% |
| Leverage ratio | 7.6 \% | 5.0 \% | 6.7 \% | 5.0 \% |

## Note 22: Related party transactions

Financing Transactions
Certain directors and executives of the Bank, companies in which they are principal owners and/or members of the board, and trusts in which they are involved, have deposits with the Bank, have loans and/or are guarantors for loans with the Bank. Loans to directors were made in the ordinary course of business at normal credit terms, including interest rate and collateral requirements. Loans to executives may be eligible for preferential rates. All of these loans were considered performing loans as at June 30,2023 and December 31, 2022. Loan balances with directors and executives of the Bank, companies in which they are principal owners and/or members of the board, and trusts in which they are involved were as follows:

| Balance at December 31, 2021 | 7,375 |
| :--- | ---: |
| Net loans issued (repaid) during the year | $(5,362)$ |
| Effect of changes in the composition of related parties | 18,380 |
| Balance at December 31, 2022 | 20,393 |
| Net loans issued (repaid) during period | $(515)$ |
| Balance at June 30, 2023 | $\mathbf{1 9 , 8 7 8}$ |


| Consolidated balance sheets | June 30, 2023 | December 31, 2022 |
| :--- | ---: | ---: |
| Deposits | 96,087 |  |


|  | Six months ended |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Consolidated statement of operations | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Interest and fees on loans | 285 | 273 | 356 | 125 |
| Total non-interest expense | 80 | 78 | 126 |  |
| Other non-interest income | 37 | - | 91 | - |

Certain affiliates of the Bank have loans and deposits with the Bank which were made and are maintained in the ordinary course of business on normal commercial terms. Balances with these parties were as follows:

| Consolidated balance sheets | June 30, 2023 | December 31, 2022 |
| :--- | ---: | ---: | ---: |
| Loans | 10,009 | 10,211 |
| Deposits | 275 | 560 |


|  | Three months ended |  | Six months ended |  |
| :--- | ---: | ---: | ---: | ---: |
| Consolidated statement of operations | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Interest and fees on loans | 207 | 152 | 405 | 299 |
| Total non-interest expense | 397 | 383 | 772 | 741 |
| Other non-interest income | 61 | 58 | 121 | 117 |

## Investments

The Bank held seed investments in Butterfield mutual funds, which were managed by a wholly-owned subsidiary of the Bank. These investments were sold during the year ended December 31, 2021.

As at June 30, 2023, several Butterfield mutual funds which are managed by a wholly owned subsidiary of the Bank, had loan balances and deposit balances held with the Bank. The Bank also earned asset management revenue and custody and other administration services revenue from funds managed by a wholly-owned subsidiary of the Bank and from directors and executives, companies in which they are principal owners and/or members of the board and trusts in which they are involved, as well as other income from other related parties.

| Consolidated balance sheets |  |  | June 30, 2023 | December 31, 2022 |
| :---: | :---: | :---: | :---: | :---: |
| Loans |  |  | 992 | - |
| Deposits |  |  | 35,461 | 20,549 |
|  | Three mon | ded | Six month | s ended |
| Consolidated statement of operations | June 30, 2023 | June 30, 2022 | June 30, 2023 | June 30, 2022 |
| Asset management | 2,319 | 1,799 | 4,499 | 3,086 |
| Custody and other administration services | 296 | 193 | 559 | 310 |

Note 23: Subsequent events
On July 31, 2023, the Board of Directors declared an interim dividend of $\$ 0.44$ per common share to be paid on August 28, 2023 to shareholders of record on August $14,2023$.


[^0]:    ${ }^{1}$ Other consumer loans' amortized cost includes $\$ 9$ million of cash and portfolio secured lending and $\$ 37$ million of lending secured by buildings in construction or other collateral.

[^1]:    ${ }^{1}$ The current carrying value of OREO is adjusted to fair value only when there is devaluation below carrying value.

