

## INDEX TO FINANCIAL STATEMENTS

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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	
		December 31, 2018
Assets		101.100
Cash and demand deposits with banks - Non-interest bearing	195,858	124,182
Demand deposits with banks - Interest bearing	564,075	487,588
Cash equivalents - Interest bearing	1,251,047	1,442,113
Cash due from banks	2,010,980	2,053,883
Securities purchased under agreement to resell	166,333	27,341
Short-term investments	163,310	52,336
Investment in securities		
Trading	7,152	6,495
Available-for-sale	2,268,871	2,182,749
Held-to-maturity (fair value: \$2,280,541 (2018: \$2,036,214))	2,248,228	2,066,120
Total investment in securities	4,524,251	4,255,364
Loans		
Loans	4,023,783	4,068,991
Allowance for credit losses	(24,053)	(25,102
Loans, net of allowance for credit losses	3,999,730	4,043,889
Premises, equipment and computer software	154,862	158,060
Accrued interest	29,967	20,870
Goodwill	23,916	23,991
Intangible assets	48,239	50,751
Equity method investments	14,324	14,660
Other real estate owned	4,687	5,346
Other assets	88,370	66,687
Total assets	11,228,969	10,773,178
Liabilities Customer deposits Bermuda		
Non-interest bearing	1,538,582	1,378,539
Interest bearing	3,043,078	3,117,063
Non-Bermuda		
Non-interest bearing	742,137	732,957
Interest bearing	4,493,718	4,189,860
Total customer deposits	9,817,515	9,418,419
Bank deposits		
Bermuda	11,959	8,100
Non-Bermuda	22,777	25,722
Total deposits	9,852,251	9,452,241
Employee benefit plans	117,407	117,203
Accrued interest	7,211	5,072
Other liabilities	180,008	172,997
Total other liabilities	304,626	295,272
Long-term debt	143,411	143,322
Total liabilities	10,300,288	9,890,835
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: 54,606,982 (2018: 55,359,218)	546	554
Additional paid-in capital	1,140,393	1,171,435
Accumulated deficit	(48,855)	(92,676
Less: treasury common shares, at cost: 1,619,212 (2018: 1,254,212)	(60,324)	(48,443
Accumulated other comprehensive loss	(103,079)	(148,527
Total shareholders' equity	928,681	882,343
Total liabilities and shareholders' equity	11,228,969	10,773,178

# The Bank of N.T. Butterfield & Son Limited Consolidated Statements of Operations (unaudited)

(In thousands of US dollars, except per share data)

	Three months ended		Six months e	ended	
	June 30, 2019	June 30, 2018	June 30, 2019	June 30, 2018	
Non-interest income					
Asset management	6,853	6,188	13,591	12,567	
Banking	12,070	10,769	23,221	21,629	
Foreign exchange revenue	8,369	8,265	17,129	16,459	
Trust	12,964	13,248	25,571	24,102	
Custody and other administration services	3,066	2,412	5,747	4,637	
Other non-interest income	917	1,057	2,360	2,306	
Total non-interest income	44,239	41,939	87,619	81,700	
Interest income					
Interest and fees on loans	56,727	53,722	113,454	104,272	
Investments (none of the investment securities are intrinsically tax-exempt)					
Available-for-sale	15,113	18,077	30,569	35,395	
Held-to-maturity	17,285	12,947	34,323	24,257	
Deposits with banks	8,247	7,947	18,177	12,960	
Total interest income	97,372	92,693	196,523	176,884	
Interest expense					
Deposits	10,228	3,583	19,383	6,525	
Long-term debt	1,988	1,705	4,006	3,050	
Securities sold under repurchase agreements	_	9		18	
Total interest expense	12,216	5,297	23,389	9,593	
Net interest income before provision for credit losses	85,156	87,396	173,134	167,291	
Provision for credit recoveries (losses)	924	524	963	2,466	
Net interest income after provision for credit losses	86,080	87,920	174,097	169,757	
Net trading gains (losses)	209	34	656	(37)	
Net realized gains (losses) on available-for-sale investments	_	44	972	894	
Net gains (losses) on other real estate owned	_	79	128	(260)	
Net other gains (losses)	(16)	(1,734)	188	(1,821)	
Total other gains (losses)	193	(1,577)	1,944	(1,224	
Total net revenue	130,512	128,282	263,660	250,233	
Non-interest expense	•	•			
Salaries and other employee benefits	50,769	39,560	92,231	75,210	
Technology and communications	15,189	15,054	29,799	29,799	
Professional and outside services	6,199	5,133	11,799	14,817	
Property	5,732	5,303	11,109	10,428	
Indirect taxes	5,321	4,964	10,543	9,912	
Non-service employee benefits expense	1,332	1,325	2,660	2,638	
Marketing	1,661	1,436	3,335	2,378	
Amortization of intangible assets	1,165	1,322	2,503	2,393	
Other expenses	4,332	4,134	8,636	8,058	
Total non-interest expense	91,700	78,231	172,615	155,633	
Net income before income taxes	38,812	50,051	91,045	94,600	
Income tax expense	(170)	(339)	(296)	(691)	
Net income	38,642	49,712	90,749	93,909	
Earnings per common share					
Basic earnings per share	0.73	0.90	1.70	1.71	
Diluted earnings per share	0.72	0.89	1.68	1.68	
Zuada daningo por oriaro	0.72	0.00	1100	1.0	

# The Bank of N.T. Butterfield & Son Limited Consolidated Statements of Comprehensive Income (unaudited)

(In thousands of US dollars)

	Three months	Three months ended Six months		
	June 30, 2019	June 30, 2018	June 30, 2019	June 30, 2018
	`	·		
Net income	38,642	49,712	90,749	93,909
Other comprehensive income (loss), net of taxes				
Net change in unrealized gains and losses on translation of net investment in foreign operations	(1,077)	(2,206)	(263)	(1,022)
Accretion of net unrealized (gains) losses on held-to-maturity investments transferred from available-for-sale investments	19	2	26	24
Net change in unrealized gains and losses on available-for-sale investments	22,785	(5,740)	44,069	(34,461)
Employee benefit plans adjustments	1,112	370	1,616	1,072
Other comprehensive income (loss), net of taxes	22,839	(7,574)	45,448	(34,387)
Total comprehensive income	61,481	42,138	136,197	59,522

# The Bank of N.T. Butterfield & Son Limited Consolidated Statements of Changes in Shareholders' Equity (unaudited)

Six months ended

Three months ended

June 30, 2019 June 30, 2018 June 30, 2019 June 30, 2018 Number of shares In thousands of US dollars In thousands of US dollars Number of In thousands of Number of In thousands of Number of shares US dollars US dollars shares shares Common share capital issued and outstanding Balance at beginning of period 54,936,833 549 55,146,840 551 55,359,218 **554** 54,692,630 547 Retirement of shares (340,000)(3) (1,120,000)(11)Issuance of common shares 10,149 25,455 367,764 479,665 5 Balance at end of period 54,606,982 546 55,172,295 54,606,982 546 55,172,295 552 552 Additional paid-in capital Balance at beginning of period 1,146,182 1,160,441 1,171,435 1,155,542 Share-based compensation 6,638 2,739 10,548 5,276 Share-based settlements 240 270 240 918 (41,837)Retirement of common shares (12,669)Issuance of common shares, net of underwriting discounts and commissions 223 7 1,937 Balance at end of period 1,140,393 1,163,673 1,140,393 1,163,673 Accumulated deficit Balance at beginning of period (64, 187)(180,900)(92,676)(204, 156)Net income for period 38,642 49,712 90,749 93,909 Common share cash dividends declared and paid, \$0.44 and \$0.88 per share (2018: \$0.38 and \$0.76 per share) (23,310)(20.960)(46.928)(41,901)(152,148) Balance at end of period (48,855)(152, 148)(48,855)Treasury common shares Balance at beginning of period 1,619,212 (60,444)1,254,212 (48,443)Purchase of treasury common shares 340,000 (12,552)1,485,000 (53,729)Retirement of shares (340,000)12,672 41,848 (1,120,000)\_ Balance at end of period 1,619,212 (60, 324)1,619,212 (60,324)Accumulated other comprehensive income (loss) Balance at beginning of period (125,918)(155,865)(148, 527)(129,052)(7,574)Other comprehensive income (loss), net of taxes 22,839 45,448 (34,387)Balance at end of period (103,079)(163,439)(103,079)(163,439)Total shareholders' equity 928,681 848,638 928,681 848,638

# The Bank of N.T. Butterfield & Son Limited Consolidated Statements of Cash Flows (unaudited)

(In thousands of US dollars)

	Six months en	ded
	June 30, 2019	June 30, 2018
Cash flows from operating activities		
Net income	90,749	93,909
Adjustments to reconcile net income to operating cash flows		
Depreciation and amortization	22,628	24,769
Provision for credit (recovery) losses	(963)	(2,466
Share-based payments and settlements	10,789	6,194
Net realized (gains) losses on available-for-sale investments	(972)	(894
Net (gains) losses on other real estate owned	(128)	260
(Increase) decrease in carrying value of equity method investments	(124)	(49
Dividends received from equity method investments	460	48
Changes in operating assets and liabilities		
(Increase) decrease in accrued interest receivable	(8,668)	(3,066
(Increase) decrease in other assets	(21,827)	(23,907
Increase (decrease) in accrued interest payable	2,190	97
Increase (decrease) in employee benefit plans and other liabilities	8,273	49,517
Cash provided by (used in) operating activities	102,407	144,412
Cash flows from investing activities		
(Increase) decrease in securities purchased under agreement to resell	(138,992)	89,979
Short-term investments other than restricted cash: purchases	(286,339)	(57,448
Short-term investments other than restricted cash: proceeds from maturities and sales	178,549	221,813
Net change in trading investments	(656)	37
Available-for-sale investments: proceeds from sale	972	345,400
Available-for-sale investments: proceeds from maturities and pay downs	151,065	310,103
Available-for-sale investments: purchases	(199,372)	(242,087
Held-to-maturity investments: proceeds from maturities and pay downs	109,084	69,863
Held-to-maturity investments: purchases	(292,708)	(600,295
Net (increase) decrease in loans	40,295	(228,118
Additions to premises, equipment and computer software	(9,650)	(7,662
Proceeds from sale of other real estate owned	787	266
Net cash disbursed for business acquisitions	_	(20,800
Cash provided by (used in) investing activities	(446,965)	(118,949
Cash flows from financing activities		
Net increase (decrease) in demand and term deposit liabilities	413,522	203,656
Issuance of subordinated capital, net of underwritting fees	_	73,233
Repayment of long-term debt	_	(47,000
Common shares repurchased	(53,729)	(,
Proceeds from stock option exercises	10	1,941
Cash dividends paid on common shares	(46,928)	(41,901
Cash provided by (used in) financing activities	312,875	189,929
Net effect of exchange rates on cash, cash equivalent and restricted cash	(7,894)	(447
Net increase (decrease) in cash, cash equivalent and restricted cash	(39,577)	214,945
Cash, cash equivalent and restricted cash: beginning of period	2,070,120	1,557,733
Cash, cash equivalent and restricted cash: end of period	2,030,543	1,772,678
Components of cash, cash equivalent and restricted cash at end of period	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 === ^^-
Cash due from banks	2,010,980	1,755,905
Restricted cash included in short-term investments on the consolidated balance sheets	19,563	16,773
Total cash, cash equivalent and restricted cash at end of period	2,030,543	1,772,678

(In thousands of US dollars, unless otherwise stated)

#### 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.

On September 16, 2016, the Bank's common shares began to trade on the New York Stock Exchange under the symbol "NTB". On September 21, 2016, the Bank completed its offering of 5,957,447 common shares, at \$23.50 per share. The proceeds, net of the underwriting discounts and commissions, were \$131.6 million.

### 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 ("US GAAP") for interim financial information and should be read in conjunction with the Bank's audited financial statements for the year ended December 31, 2018.

In the opinion of Management, these unaudited interim consolidated financial statements reflect all adjustments (consisting principally 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 US GAAP requires Management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. While Management believes that the amounts included in the unaudited interim consolidated financial statements reflect its best estimates and assumptions, actual results could differ from those estimates. The Bank's principal estimates include:

- Allowance for credit losses
- · Fair value and impairment of financial instruments
- · Impairment of long-lived assets
- · Impairment of goodwill
- · Employee benefit plans
- · Share-based payments

### Leases

In the normal course of operation, the Bank enters into leasing agreements either as the lessee or the lessor. Starting on January 1, 2019 (the adoption date of the new lease accounting guidance ASU 2016-02 Leases (Topic 842)), the Bank recognizes a right-of-use asset and a lease liability for operating leases and for finance leases. Lease liabilities are measured as the present value of future lease payments, including term renewals that are reasonably certain to occur, discounted using the Bank's incremental borrowing interest rate. Right-of-use assets are measured as the carrying amount of the related lease liabilities adjusted for: prepaid or accrued lease payments, unamortized lease incentive received, unamortized initial direct costs and any impairment of the right-of-use asset.

On January 1, 2019 the Bank elected the practical expedient: 1) not to reassess whether any expired or existing contracts are or contain leases; 2) not to reassess the lease classification for any expired or existing leases and 3) not to reassess initial direct costs for any existing leases.

The Bank also elected the practical expedient not to separate lease components from non-lease components for all classes of underlying assets.

The Bank also elected the practical expedient not to recognize a right-of-use asset and a lease liability for leases with a term at inception of 12 months or less, including renewal options that are reasonably certain to be exercised (referred to as "short term leases").

## **New Accounting Pronouncements**

The following accounting developments were issued during the six months ended June 30, 2019 or are accounting standards pending adoption:

In June 2016, the FASB published Accounting Standards Update No. 2016-13 Financial Instruments – Credit Losses. The amendments in this update provide a new impairment model, known as the current expected credit loss model that is based on expected losses rather than incurred losses. The amendments in this update are also intended to reduce the complexity and reduce the number of impairment models entities use to account for debt instruments. For public business entities that meet the GAAP definition of an SEC filer, the effective date for this update for fiscal years beginning after December 15, 2019, including interim periods within those fiscal years. The Bank is evaluating ASU No. 2016-13 and has initiated a working group with multiple members from applicable departments to evaluate the requirements of the new standard, planning for loss modeling requirements consistent with lifetime expected loss estimates, and assessing the impact it will have on current processes. The extent of the impact upon adoption will likely depend on the characteristics of the Bank's loan portfolio and economic conditions at that date, as well as forecasted conditions thereafter.

In April 2019, the FASB published Accounting Standards Update No. 2019-04 Codification Improvements to Topic 326, Financial Instruments—Credit Losses, Topic 815, Derivatives and Hedging, and Topic 825, Financial Instruments. The amendments in this update clarify, correct and improve various aspects of the guidance in the following ASU's related to financial instruments: ASU 2016-01 Financial Instruments—Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Liabilities, ASU 2016-13, Financial Instruments—Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments, and ASU 2017-12, Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities. The amendments in this ASU relating to ASU 2016-01 are effective for fiscal years beginning after December 15, 2019, including interim periods within those fiscal years, early adoption is permitted and it should be applied on a modified-retrospective transition basis. The amendments in this ASU relating to ASU 2016-13 are effective as noted in ASU 2017-12. The Bank is assessing the impact of the adoption of this guidance but does not expect it to be material.

(In thousands of US dollars, unless otherwise stated)

In May 2019, the FASB published Accounting Standards Update No. 2019-05 Financial Instruments - Credit Losses (Topic 326) - Targeted Transition Relief. The amendments in this update provide targeted transition relief that is an option for, and will be available to, all reporting entities within the scope of Topic 326. It provides entities with an option to irrevocably elect the fair value option in Subtopic 825-10, applied on an instrument-by-instrument basis for eligible instruments, that are within the scope of Subtopic 326-20 upon adoption of Topic 326. The fair value option election does not apply to held-to-maturity debt securities. The effective date and transition methodology for the amendments in this update are the same as in ASU 2016-13. The Bank is assessing the impact of the adoption of this guidance but does not expect it to be material.

In March 2019, the FASB published Accounting Standards Update No. 2019-01 Leases (Topic 842) - Codification Improvements. The amendments in this update provide clarification on three issues relating to ASU 2016-02 Leases (Topic 842): 1) determining the fair value of the underlying asset by lessors that are not manufactures or dealers; 2) presentation on the statement of cash flows - sales-type and direct financing leases for all lessors that are depository and lending entities within the scope of Topic 942; and 3) transition disclosures related to Topic 250, Accounting Changes and Error Corrections. The transition and effective date provisions for this update apply to Issue 1 and Issue 2 and are effective for fiscal years beginning after December 15, 2019, and interim periods within those fiscal years, for public business entities. Issue 3 amendments are to the original transition requirements in Topic 842 to clarify that the transition disclosures for Topic 250, paragraphs 250-10-50-1(b)(2) and paragraph 250-10-50-3 are excluded from interim disclosure requirements for Topic 842. The Bank does not anticipate this ASU to have an impact on the Bank.

Note 3: Cash due from banks

		June 30, 2019			December 31, 2018			
	Bermuda	Non-Bermuda	Total	Bermuda	Non-Bermuda	Total		
Non-interest bearing								
Cash and demand deposits with banks	27,045	168,813	195,858	21,677	102,505	124,182		
Interest bearing <sup>1</sup>								
Demand deposits with banks	422,359	141,716	564,075	335,841	151,747	487,588		
Cash equivalents	273,911	977,136	1,251,047	364,714	1,077,399	1,442,113		
Sub-total - Interest bearing	696,270	1,118,852	1,815,122	700,555	1,229,146	1,929,701		
Total cash due from banks	723,315	1,287,665	2,010,980	722,232	1,331,651	2,053,883		

<sup>1</sup> Interest bearing cash due from banks includes certain demand deposits with banks as at June 30, 2019 in the amount of \$232.0 million (December 31, 2018: \$204.2 million) that are earning interest at a negligible rate.

## Note 4: Short-term investments

	June 30, 2019			D		
-	Bermuda	Non-Bermuda	Total	Bermuda	Non-Bermuda	Total
Unrestricted						
Maturing within three months	_	63,424	63,424	_	25,459	25,459
Maturing between three to six months	_	75,432	75,432	_	9,641	9,641
Maturing between six to twelve months	_	4,891	4,891	_	_	_
Total unrestricted short-term investments	_	143,747	143,747	_	35,100	35,100
Affected by drawing restrictions related to minimum reserve and derivative	e margin requ	irements				
Non-interest earning demand deposits	_	7,292	7,292	_	2,401	2,401
Interest earning demand and term deposits	10,963	1,308	12,271	13,836	999	14,835
Total restricted short-term investments	10,963	8,600	19,563	13,836	3,400	17,236
Total short-term investments	10,963	152,347	163,310	13,836	38,500	52,336

(In thousands of US dollars, unless otherwise stated)

#### Note 5: Investment in securities

### **Amortized Cost, Carrying Amount and Fair Value**

On the consolidated balance sheets, trading and available-for-sale ("AFS") investments are carried at fair value and held-to-maturity ("HTM") investments are carried at amortized cost.

		June 30, 2019			December 31, 2018			
	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value
Trading								
Mutual funds	5,724	1,861	(433)	7,152	5,724	1,176	(405)	6,495
Total trading	5,724	1,861	(433)	7,152	5,724	1,176	(405)	6,495
Available-for-sale								
US government and federal agencies	1,888,766	12,102	(11,117)	1,889,751	1,820,808	3,355	(37,656)	1,786,507
Non-US governments debt securities	25,781	16	(518)	25,279	25,804	19	(398)	25,425
Corporate debt securities	64,929	40	(208)	64,761	80,177	_	(1,464)	78,713
Asset-backed securities - Student loans	13,290	_	(532)	12,758	13,290	_	(664)	12,626
Commercial mortgage-backed securities	125,157	1,110	(248)	126,019	125,806	6	(2,603)	123,209
Residential mortgage-backed securities	150,507	476	(680)	150,303	160,492	_	(4,223)	156,269
Total available-for-sale	2,268,430	13,744	(13,303)	2,268,871	2,226,377	3,380	(47,008)	2,182,749
Held-to-maturity <sup>1</sup>								
US government and federal agencies	2,248,228	34,393	(2,080)	2,280,541	2,066,120	5,012	(34,918)	2,036,214
Total held-to-maturity	2,248,228	34,393	(2,080)	2,280,541	2,066,120	5,012	(34,918)	2,036,214

<sup>&</sup>lt;sup>1</sup> For the six months ended June 30, 2019 and the year ended December 31, 2018, non-credit impairments recognized in accumulated other comprehensive loss ("AOCL") for HTM investments were nil.

## **Investments with Unrealized Loss Positions**

The Bank does not believe that the AFS and HTM investment securities that were in an unrealized loss position as of June 30, 2019 (and December 31, 2018), which were composed of 99 securities representing 34% of the AFS and HTM portfolios' fair value (December 31, 2018: 198 and 75%, respectively), represent an other-than-temporary impairment ("OTTI"). Total gross unrealized losses were 1.0% of the fair value of affected securities (December 31, 2018: 2.6%) and were attributable primarily to changes in market interest rates, relative to when the investment securities were purchased, and not due to the credit quality of the investment 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 quarantee provided by the issuing government.

The unrealized losses in Corporate debt securities relate primarily to four debt securities that are all of investment grade with ratings of A. Management believes that the value of these securities will recover and the current unrealized loss positions are a result of interest rate movements.

Investments in **Asset-backed securities - Student loans** are composed primarily 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 over-collateralization, 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 **Commercial mortgage-backed securities** relate to three senior securities rated AAA or AA+ that possess significant subordination, a form of credit enhancement expressed hereafter as the percentage of pool losses that can occur before the senior securities held by the Bank will incur its first dollar of principal loss. No credit losses were recognized as for one of these securities, the weighted average credit support is 26% and and the weighted average loan-to-value ratios ("LTV") is 46%. In respect of the two remaining securities, one is fully defeased with the other having an LTV of less than 30%.

Investments in **Residential mortgage-backed securities** relate to nine securities which are rated AAA or AA+ 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 LTV ratios range from 6% - 21% and 55% - 64%, respectively. Current credit support is significantly greater than any delinquencies experienced on the underlying mortgages.

(In thousands of US dollars, unless otherwise stated)

In the following tables, debt securities with unrealized losses that are not deemed to be OTTI 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.

Less than 12 months		12 months	or more		
Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Total fair value	Total gross unrealized losses
292,612	(1,435)	864,842	(9,682)	1,157,454	(11,117)
_	_	22,246	(518)	22,246	(518)
_	_	49,703	(208)	49,703	(208)
-	_	12,758	(532)	12,758	(532)
795	(2)	20,482	(246)	21,277	(248)
_	_	83,673	(680)	83,673	(680)
293,407	(1,437)	1,053,704	(11,866)	1,347,111	(13,303)
_	_	198,818	(2,080)	198,818	(2,080)
Less than 1	an 12 months or more		or more		
	0				
Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Total fair value	Total gross unrealized losses
	unrealized		unrealized		unrealized
	unrealized		unrealized		unrealized
value	unrealized losses	value	unrealized losses	fair value	unreălized losses
value	unrealized losses	value 1,027,638	unrealized losses (36,070)	fair value 1,399,921	unrealized losses (37,656)
372,283 —	unrealized losses (1,586)	1,027,638 22,360	unrealized losses (36,070) (398)	1,399,921 22,360	(37,656) (398)
372,283 —	unrealized losses (1,586)	1,027,638 22,360 63,799	unrealized losses (36,070) (398) (1,350)	1,399,921 22,360 78,713	(37,656) (398) (1,464)
372,283 — 14,914 —	unrealized losses (1,586)	1,027,638 22,360 63,799 12,626	(36,070) (398) (1,350) (664)	1,399,921 22,360 78,713 12,626	(37,656) (398) (1,464) (664)
372,283 — 14,914 — 812	(1,586) — (114) — —	1,027,638 22,360 63,799 12,626 117,379	(36,070) (398) (1,350) (664) (2,603)	1,399,921 22,360 78,713 12,626 118,191	(37,656) (398) (1,464) (664) (2,603)
372,283 — 14,914 — 812 49,804	(1,586) — (114) — (1,313)	1,027,638 22,360 63,799 12,626 117,379 106,465	(36,070) (398) (1,350) (664) (2,603) (2,910)	1,399,921 22,360 78,713 12,626 118,191 156,269	(37,656) (398) (1,464) (664) (2,603) (4,223)
	Fair value  292,612  — — 795 — 293,407	Fair value Gross unrealized losses  292,612 (1,435)   795 (2)   293,407 (1,437)  Less than 12 months	Fair value         Gross unrealized losses         Fair value           292,612         (1,435)         864,842           —         —         22,246           —         —         49,703           —         —         12,758           795         (2)         20,482           —         —         83,673           293,407         (1,437)         1,053,704           —         —         198,818	Fair value         Gross unrealized losses         Fair value         Gross unrealized losses           292,612         (1,435)         864,842         (9,682)           —         —         22,246         (518)           —         —         49,703         (208)           —         —         12,758         (532)           795         (2)         20,482         (246)           —         —         83,673         (680)           293,407         (1,437)         1,053,704         (11,866)	Fair value         Gross unrealized losses         Fair value         Gross unrealized losses         Total fair value           292,612         (1,435)         864,842         (9,682)         1,157,454           —         —         22,246         (518)         22,246           —         —         49,703         (208)         49,703           —         —         12,758         (532)         12,758           795         (2)         20,482         (246)         21,277           —         —         83,673         (680)         83,673           293,407         (1,437)         1,053,704         (11,866)         1,347,111           —         —         198,818         (2,080)         198,818

(In thousands of US dollars, unless otherwise stated)

## **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, 2019	Within 3 months	3 to 12 months	1 to 5 years	5 to 10 years	No specific or single maturity	Carrying amount	
Trading				'			
Mutual funds	_	_	_	_	7,152	7,152	
Available-for-sale							
US government and federal agencies	_	_	34,889	_	1,854,862	1,889,751	
Non-US governments debt securities	_	3,033	22,246	_	_	25,279	
Corporate debt securities	_	15,059	49,702	_	_	64,761	
Asset-backed securities - Student loans	_	_	_	_	12,758	12,758	
Commercial mortgage-backed securities	_	_	_	_	126,019	126,019	
Residential mortgage-backed securities	_	_	_	_	150,303	150,303	
Total available-for-sale	-	18,092	106,837	-	2,143,942	2,268,871	
Held-to-maturity							
US government and federal agencies	_	_	_	_	2,248,228	2,248,228	
Total investments	_	18,092	106,837	_	4,399,322	4,524,251	
Total by currency							
US dollars	_	18,092	106,837	_	4,399,030	4,523,959	
Other	_	_	_	_	292	292	
Total investments	_	18,092	106,837	_	4,399,322	4,524,251	

## **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, 2019		December 31, 2018	
Pledged Investments	Amortized cost	Fair value	Amortized cost	Fair value
Available-for-sale	34,978	35,483	42,531	42,400
Held-to-maturity	61,900	62,818	70,818	69,030

Sale Proceeds and Realized Gains and Losses of AFS Securities	Six months ended			Six months ended			
	June 30, 2019			J	une 30, 2018		
	Sale proceeds	Gross realized gains	Gross realized (losses)	Sale proceeds	Gross realized gains	Gross realized (losses)	
US government and federal agencies	_	_	_	320,470	767	(826)	
Corporate debt securities	_	_	_	24,975	_	(87)	
Pass-through note	972	972	_	1,040	1,040	_	
Total	972	972		346,485	1,807	(913)	

### **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.

(In thousands of US dollars, unless otherwise stated)

## Note 6: Loans

The "Bermuda" and "Non-Bermuda" classifications purpose is to reflect management segment reporting as described in Note 12: Segmented information.

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, business and government loans are generally repayable over terms not exceeding five years. Amounts owing on credit cards are revolving and typically a minimum amount is due within 30 days from billing. The effective yield on total loans as at June 30, 2019 is 5.41% (December 31, 2018: 5.53%).

	June 30, 2019			December 31, 2018			
	Bermuda	Non-Bermuda	Total	Bermuda	Non-Bermuda	Total	
Commercial loans							
Government	100,812	12,298	113,110	92,994	12,670	105,664	
Commercial and industrial	295,077	137,313	432,390	291,470	222,393	513,863	
Commercial overdrafts	21,349	15,092	36,441	16,342	16,752	33,094	
Total gross commercial loans	417,238	164,703	581,941	400,806	251,815	652,621	
Less specific allowance for credit losses	(3,452)	(1,687)	(5,139)	(2,766)	(1,687)	(4,453)	
Net commercial loans	413,786	163,016	576,802	398,040	250,128	648,168	
Commercial real estate loans							
Commercial mortgage	291,869	182,958	474,827	304,519	192,456	496,975	
Construction	30,000	38,455	68,455	29,760	48,909	78,669	
Total gross commercial real estate loans	321,869	221,413	543,282	334,279	241,365	575,644	
Less specific allowance for credit losses	(515)	-	(515)	(600)	_	(600)	
Net commercial real estate loans	321,354	221,413	542,767	333,679	241,365	575,044	
Consumer loans							
Automobile financing	12,892	7,054	19,946	13,249	6,975	20,224	
Credit card	58,856	23,804	82,660	60,466	23,623	84,089	
Overdrafts	2,220	2,578	4,798	10,511	2,375	12,886	
Other consumer	32,390	34,284	66,674	28,415	35,076	63,491	
Total gross consumer loans	106,358	67,720	174,078	112,641	68,049	180,690	
Less specific allowance for credit losses	(274)	_	(274)	(274)	_	(274)	
Net consumer loans	106,084	67,720	173,804	112,367	68,049	180,416	
Residential mortgage loans	1,119,269	1,605,213	2,724,482	1,121,288	1,538,748	2,660,036	
Less specific allowance for credit losses	(9,589)	(1,219)	(10,808)	(8,575)	(1,013)	(9,588)	
Net residential mortgage loans	1,109,680	1,603,994	2,713,674	1,112,713	1,537,735	2,650,448	
Total gross loans	1,964,734	2,059,049	4,023,783	1,969,014	2,099,977	4,068,991	
Less specific allowance for credit losses	(13,830)	(2,906)	(16,736)	(12,215)	(2,700)	(14,915)	
Less general allowance for credit losses	(5,982)	(1,335)	(7,317)	(7,098)	(3,089)	(10,187)	
Net loans	1,944,922	2,054,808	3,999,730	1,949,701	2,094,188	4,043,889	

(In thousands of US dollars, unless otherwise stated)

## Age Analysis of Past Due Loans (Including Non-Accrual Loans)

The following tables summarize the past due status of the loans as at June 30, 2019 and December 31, 2018. 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, 2019	30 - 59 days	60 - 89 days	More than 90 days	Total past due loans	Total current	Total loans
Commercial loans		•	<u> </u>			
Government	_	_	3,750	3,750	109,360	113,110
Commercial and industrial	204	_	7,371	7,575	424,815	432,390
Commercial overdrafts	_	_	1	1	36,440	36,441
Total commercial loans	204	_	11,122	11,326	570,615	581,941
Commercial real estate loans						
Commercial mortgage	3,201	_	3,293	6,494	468,333	474,827
Construction	_	_	_	_	68,455	68,455
Total commercial real estate loans	3,201	_	3,293	6,494	536,788	543,282
Consumer loans						
Automobile financing	41	14	162	217	19,729	19,946
Credit card	677	376	566	1,619	81,041	82,660
Overdrafts	_	_	13	13	4,785	4,798
Other consumer	166	445	436	1,047	65,627	66,674
Total consumer loans	884	835	1,177	2,896	171,182	174,078
Residential mortgage loans	20,787	7,758	39,346	67,891	2,656,591	2,724,482
Total gross loans	25,076	8,593	54,938	88,607	3,935,176	4,023,783
December 31, 2018	30 - 59 days	60 - 89 days	More than 90 days	Total past due loans	Total current	Total loans
Commercial loans						
Government	_	_	3,750	3,750	101,914	105,664
Commercial and industrial	231	_	7,379	7,610	506,253	513,863
Commercial overdrafts	_	_	2	2	33,092	33,094
Total commercial loans	231	_	11,131	11,362	641,259	652,621
Commercial real estate loans						
Commercial mortgage	837	1,282	4,062	6,181	490,794	496,975
Construction		_	_		78,669	78,669
Total commercial real estate loans	837	1,282	4,062	6,181	569,463	575,644
Consumer loans						
Automobile financing	125	29	162	316	19,908	20,224
Credit card	351	313	126	790	83,299	84,089
Overdrafts	_	_	4	4	12,882	12,886
Other consumer	456	183	577	1,216	62,275	63,491
Total consumer loans	932	525	869	2,326	178,364	180,690
Residential mortgage loans	31,015	8,859	36,394	76,268	2,583,768	2,660,036

### Loans' Credit Quality

The four credit quality classifications set out in the following tables (which exclude purchased credit-impaired loans) 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 assigned.

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.

(In thousands of US dollars, unless otherwise stated)

A special mention loan shall mean a loan under close monitoring by the Bank's management. Loans in this category are currently protected and still performing (current with respect to interest and principal payments), 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 doubtful and there is a threat of loss to the Bank unless the unreliability is averted.

A **non-accrual** loan shall mean either management is of the opinion full payment of principal or interest is in doubt or when principal or interest is 90 days past due and for residential mortgage loans which are not well secured and in the process of collection.

June 30, 2019	Pass	Special mention	Substandard	Non-accrual	Total gross recorded investments
Commercial loans	,				
Government	109,360	_	_	3,750	113,110
Commercial and industrial	419,640	4,137	1,132	7,481	432,390
Commercial overdrafts	32,492	3,396	552	1	36,441
Total commercial loans	561,492	7,533	1,684	11,232	581,941
Commercial real estate loans					
Commercial mortgage	394,341	74,210	1,722	4,554	474,827
Construction	68,455	_	_	_	68,455
Total commercial real estate loans	462,796	74,210	1,722	4,554	543,282
Consumer loans					
Automobile financing	19,638	114	13	181	19,946
Credit card	82,094	_	566	_	82,660
Overdrafts	4,337	448	_	13	4,798
Other consumer	64,002	1,721	406	545	66,674
Total consumer loans	170,071	2,283	985	739	174,078
Residential mortgage loans	2,560,184	46,504	78,452	39,342	2,724,482
Total gross recorded loans	3,754,543	130,530	82,843	55,867	4,023,783
December 31, 2018	Pass	Special mention	Substandard	Non-accrual	Total gross recorded investments
Commercial loans					
Government	101,914	_	_	3,750	105,664
Commercial and industrial	501,241	4,097	1,146	7,379	513,863
Commercial overdrafts	29,896	2,705	491	2	33,094
Total commercial loans	633,051	6,802	1,637	11,131	652,621
Commercial real estate loans					
Commercial mortgage	444,397	45,390	3,126	4,062	496,975
Construction	78,669				78,669
Total commercial real estate loans	523,066	45,390	3,126	4,062	575,644
Consumer loans					
Automobile financing	19,927	119	16	162	20,224
Credit card	83,963	_	126	_	84,089
Overdrafts	12,650	232	_	4	12,886
Other consumer	60,766	1,869	10	846	63,491
Total consumer loans	177,306	2,220	152	1,012	180,690
Residential mortgage loans	2,501,814	47,039	78,697	32,486	2,660,036

(In thousands of US dollars, unless otherwise stated)

Evaluation of Loans For Impairment	June 30,	, 2019	December 31, 2018		
	Individually evaluated	Collectively evaluated	Individually evaluated	Collectively evaluated	
Commercial	12,183	569,758	12,096	640,525	
Commercial real estate	6,275	537,007	7,188	568,456	
Consumer	749	173,329	1,023	179,667	
Residential mortgage	107,201	2,617,281	102,127	2,557,909	
Total gross loans	126.408	3.897.375	122,434	3.946.557	

## Changes in General and Specific Allowances For Credit Losses

	Six months ended June 30, 2019							
	Commercial	Commercial real estate	Consumer	Residential mortgage	Total			
Allowances at beginning of period	6,913	4,092	802	13,295	25,102			
Provision taken (released)	(535)	(389)	433	(472)	(963)			
Recoveries	19	2	630	276	927			
Charge-offs	(14)	_	(984)	(30)	(1,028)			
Other	_	1	_	14	15			
Allowances at end of period	6,383	3,706	881	13,083	24,053			
Allowances at end of period: individually evaluated for impairment	5,139	515	274	10,808	16,736			
Allowances at end of period: collectively evaluated for impairment	1,244	3,191	607	2,275	7,317			

		Six months ended June 30, 2018							
	Commercial	Commercial real estate	Consumer	Residential mortgage	Total				
Allowances at beginning of period	6,309	10,360	888	17,910	35,467				
Provision taken (released)	1,637	(2,377)	208	(1,934)	(2,466)				
Recoveries	4	27	292	79	402				
Charge-offs	_	_	(437)	(1,466)	(1,903)				
Other	(6)	(2)	_	(14)	(22)				
Allowances at end of period	7,944	8,008	951	14,575	31,478				
Allowances at end of period: individually evaluated for impairment	4,521	600	274	8,210	13,605				
Allowances at end of period: collectively evaluated for impairment	3,423	7,408	677	6,365	17,873				

(In thousands of US dollars, unless otherwise stated)

Non-Performing Loans (excluding purchased credit-impaired loans)		June 30, 2019		December 31, 2018			
	Non-accrual	Past due more than 90 days and accruing	Total non- performing loans	Non-accrual	Past due more than 90 days and accruing	Total non- performing loans	
Commercial loans							
Government	3,750	_	3,750	3,750	_	3,750	
Commercial and industrial	7,481	_	7,481	7,379	_	7,379	
Commercial overdrafts	1	_	1	2	_	2	
Total commercial loans	11,232	<u>—</u>	11,232	11,131	_	11,131	
Commercial real estate loans							
Commercial mortgage	4,554	_	4,554	4,062	_	4,062	
Consumer loans							
Automobile financing	181	_	181	162	_	162	
Credit card	_	566	566	_	126	126	
Overdrafts	13	_	13	4	_	4	
Other consumer	545	132	677	846	_	846	
Total consumer loans	739	698	1,437	1,012	126	1,138	
Residential mortgage loans	39,342	4,309	43,651	32,486	6,332	38,818	
Total non-performing loans	55,867	5,007	60,874	48,691	6,458	55,149	

## Impaired Loans (excluding purchased credit-impaired loans)

A loan is considered to be impaired when, based on current information and events, the Bank determines that it will not be able to collect all amounts due according to the original loan contract, including scheduled interest payments. Impaired loans include all non-accrual loans and all loans modified in a troubled debt restructuring ("TDR") even if full collectability is expected following the restructuring. During the six months ended June 30, 2019, the amount of gross interest income that would have been recorded had impaired loans been current was \$1.8 million (June 30, 2018: \$1.1 million).

	Impaired lo	oans with an allow	ance	Gross	Total impaired loans			
June 30, 2019	Gross recorded investment	Specific allowance	Net loans	recorded investment of impaired loans without an allowance	Gross recorded investment	Specific allowance	Net loans	
Commercial loans								
Government	3,750	(1,688)	2,062	_	3,750	(1,688)	2,062	
Commercial and industrial	7,367	(3,451)	3,916	1,065	8,432	(3,451)	4,981	
Commercial overdrafts	_	_	_	1	1	_	1	
Total commercial loans	11,117	(5,139)	5,978	1,066	12,183	(5,139)	7,044	
Commercial real estate loans								
Commercial mortgage	1,042	(515)	527	5,234	6,276	(515)	5,761	
Consumer loans								
Automobile financing	127	(75)	52	54	181	(75)	106	
Overdrafts	_	_	_	13	13	_	13	
Other consumer	199	(199)	_	346	545	(199)	346	
Total consumer loans	326	(274)	52	413	739	(274)	465	
Residential mortgage loans	51,531	(10,612)	40,919	52,890	104,421	(10,612)	93,809	
Total impaired loans	64,016	(16,540)	47,476	59,603	123,619	(16,540)	107,079	

Specific allowance excludes \$0.2 million recognized relating to purchased credit-impaired loans.

(In thousands of US dollars, unless otherwise stated)

	Impaired Ic	oans with an allowa	nce	Gross	Total impaired loans			
December 31, 2018	Gross recorded investment	Specific allowance	Net loans	recorded investment of impaired loans without an allowance	Gross recorded investment	Specific allowance	Net loans	
Commercial loans								
Government	3,750	(1,687)	2,063	_	3,750	(1,687)	2,063	
Commercial and industrial	7,379	(2,766)	4,613	965	8,344	(2,766)	5,578	
Commercial overdrafts	_	_	_	2	2	_	2	
Total commercial loans	11,129	(4,453)	6,676	967	12,096	(4,453)	7,643	
Commercial real estate loans								
Commercial mortgage	1,081	(600)	481	6,108	7,189	(600)	6,589	
Consumer loans								
Automobile financing	130	(75)	55	32	162	(75)	87	
Overdrafts	_	_	_	4	4	_	4	
Other consumer	199	(199)	_	647	846	(199)	647	
Total consumer loans	329	(274)	55	683	1,012	(274)	738	
Residential mortgage loans	49,431	(9,422)	40,009	49,571	99,002	(9,422)	89,580	
Total impaired loans	61,970	(14,749)	47,221	57,329	119,299	(14,749)	104,550	

Specific allowance excludes \$0.2 million recognized relating to purchased credit-impaired loans.

## Average Impaired Loan Balances and Related Recognized Interest Income

	June 30,	2019	December 31, 2018		
	Average gross recorded investment	Interest income recognized¹	Average gross recorded investment	Interest income recognized <sup>1</sup>	
Commercial loans					
Government	3,750	_	3,750	_	
Commercial and industrial	8,388	36	8,415	68	
Commercial overdrafts	2	_	2	_	
Total commercial loans	12,140	36	12,167	68	
Commercial real estate loans					
Commercial mortgage	6,733	122	7,539	287	
Consumer loans					
Automobile financing	172	_	194	_	
Overdrafts	9	_	4	_	
Other consumer	696	_	665	_	
Total consumer loans	877	_	863	_	
Residential mortgage loans	101,712	2,311	97,378	4,568	
Total impaired loans	121,462	2,469	117,947	4,923	

<sup>&</sup>lt;sup>1</sup> All interest income recognized on impaired loans relate to loans previously modified in a TDR.

## Loans Modified in a TDR

As at June 30, 2019, the Bank had no loans that were modified in a TDR during the preceding 12 months that subsequently defaulted (i.e. 90 days or more past due following a modification). As at December 31, 2018, the Bank had two loans which were formerly residential mortgages that were modified in a TDR during the preceding 12 months that subsequently defaulted with a combined recorded investment of \$0.8 million.

(In thousands of US dollars, unless otherwise stated)

## TDRs entered into during the period

For the six months ended June 30, 2019, the Bank did not enter into any new TDRs.

	Six months ended June 30, 2018				
	Number of contracts	Pre- modification recorded investment	Modification: interest capitalization	Post- modification recorded investment	
Residential mortgage loans	13	5,729	528	6,257	
Total loans modified in a TDR	13	5,729	528	6,257	

	June 30	), 2019	December 31, 2018	
TDRs outstanding	Accrual	Non-accrual	Accrual	Non-accrual
Commercial loans	951		965	_
Commercial real estate loans	1,722	2,594	3,127	1,336
Residential mortgage loans	65,079	9,378	66,516	8,154
Total TDRs outstanding	67,752	11,972	70,608	9,490

### **Purchased Credit-Impaired Loans**

Advances and increases in cash flows expected to be collected

Increase (reduction) resulting from changes in allowances for credit losses

Reduction resulting from repayments

Balance at end of period

The Bank acquired certain credit-impaired loans as part of the November 7, 2014 acquisition of substantially all retail loans of HSBC Bank (Cayman) Limited. The accretable difference (or "accretable yield") represents the excess of a loan's cash flows expected to be collected over the loan's carrying amount.

	:	Six months ended June 30, 2019			
	Contractual principal	Non-accretable difference	Accretable difference	Carrying amount	
Balance at beginning of period	4,531	(901)	(661)	2,969	
Advances and increases in cash flows expected to be collected	60	(8)	8	60	
Reduction resulting from repayments	(571)	96	165	(310)	
Increase (reduction) resulting from changes in allowances for credit losses	_	(30)	_	(30)	
Reduction resulting from charge-offs	(96)	_	_	(96)	
Balance at end of period	3,924	(843)	(488)	2,593	
		Year ended Decen	nber 31, 2018		
	Contractual principal	Non-accretable difference	Accretable difference	Carrying amount	
Balance at beginning of period	6,001	(1,239)	(711)	4,051	

25

(1,495)

4,531

42

191

105

(901)

(42)

92

(661)

25

(1,212)

105

2,969

(In thousands of US dollars, unless otherwise stated)

### 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 tables summarize the credit exposure of the Bank by business sector and by geographic region. The on-balance sheet exposure amounts disclosed are net of specific allowances and the off-balance sheet exposure amounts disclosed are gross of collateral held.

	June 30, 2019			December 31, 2018		
Business sector	Loans	Off-balance sheet	Total credit exposure	Loans	Off-balance sheet	Total credit exposure
Banks and financial services	653,789	369,110	1,022,899	611,404	415,124	1,026,528
Commercial and merchandising	208,471	171,174	379,645	316,349	182,440	498,789
Governments	112,614	7,259	119,873	104,857	_	104,857
Individuals	2,356,707	127,631	2,484,338	2,339,854	89,931	2,429,785
Primary industry and manufacturing	121,248	870	122,118	120,088	1,003	121,091
Real estate	374,282	724	375,006	395,086	1,547	396,633
Hospitality industry	174,102	1,182	175,284	160,680	3,497	164,177
Transport and communication	5,834	75	5,909	5,758	75	5,833
Sub-total	4,007,047	678,025	4,685,072	4,054,076	693,617	4,747,693
General allowance	(7,317)	_	(7,317)	(10,187)	_	(10,187)
Total	3,999,730	678,025	4,677,755	4,043,889	693,617	4,737,506

	June 30, 2019				December 31, 2018			
Geographic region	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
Australia	232,978	_	_	232,978	145,675	_	_	145,675
Belgium	2,357	_	_	2,357	3,007	_	_	3,007
Bermuda	26,927	2,128,162	297,423	2,452,512	36,827	2,133,859	333,845	2,504,531
Canada	577,871	_	_	577,871	759,437	_	_	759,437
Cayman	20,778	729,334	202,812	952,924	18,138	730,418	222,189	970,745
Guernsey	1	265,152	38,771	303,924	6	290,578	22,619	313,203
Japan	17,451	_	_	17,451	14,271	-	_	14,271
Jersey	_	12,687	11,843	24,530	_	9,083	449	9,532
New Zealand	9,516	_	_	9,516	1,082	_	_	1,082
Norway	8,252	_	_	8,252	8,750	_	_	8,750
Saint Lucia	_	29,550	_	29,550	-	90,000	_	90,000
Switzerland	8,566	_	_	8,566	6,637	_	_	6,637
The Bahamas	1,672	13,665	_	15,337	1,534	14,367	_	15,901
United Kingdom	618,965	826,434	127,176	1,572,575	725,634	783,708	114,515	1,623,857
United States	812,557	_	_	812,557	411,248	_	_	411,248
Other	2,732	2,063	_	4,795	1,314	2,063	_	3,377
Sub-total	2,340,623	4,007,047	678,025	7,025,695	2,133,560	4,054,076	693,617	6,881,253
General allowance	_	(7,317)	_	(7,317)	_	(10,187)	_	(10,187)
Total	2,340,623	3,999,730	678,025	7,018,378	2,133,560	4,043,889	693,617	6,871,066

(In thousands of US dollars, unless otherwise stated)

Note 8: Customer deposits and deposits from banks

## By Maturity

Бу масипсу	Dema	nd		Term					
June 30, 2019	Non-interest bearing	Interest bearing	Total demand deposits	Within 3 months	3 to 6 months	6 to 12 months	After 12 months	Total term deposits	Total deposits
Customers									
Bermuda									
Demand or less than \$100k1	1,538,582	1,989,898	3,528,480	10,771	4,617	9,356	14,992	39,736	3,568,216
Term - \$100k or more	N/A	N/A	_	761,945	112,454	87,709	51,336	1,013,444	1,013,444
Total Bermuda	1,538,582	1,989,898	3,528,480	772,716	117,071	97,065	66,328	1,053,180	4,581,660
Non-Bermuda									
Demand or less than \$100k1	742,137	3,176,214	3,918,351	19,741	5,342	5,558	791	31,432	3,949,783
Term and \$100k or more	N/A	N/A	_	833,737	132,465	311,086	8,784	1,286,072	1,286,072
Total non-Bermuda	742,137	3,176,214	3,918,351	853,478	137,807	316,644	9,575	1,317,504	5,235,855
Total customer deposits	2,280,719	5,166,112	7,446,831	1,626,194	254,878	413,709	75,903	2,370,684	9,817,515
Banks									
Bermuda									
Demand or less than \$100k	11,959	_	11,959	_	_	_	_	_	11,959
Non-Bermuda									
Demand or less than \$100k	_	18,665	18,665	_	_	_	_	_	18,665
Term and \$100k or more	N/A	N/A	_	4,112		_	_	4,112	4,112
Total non-Bermuda	_	18,665	18,665	4,112	-	_	_	4,112	22,777
Total bank deposits	11,959	18,665	30,624	4,112	_	_	_	4,112	34,736
Total deposits	2,292,678	5,184,777	7,477,455	1,630,306	254,878	413,709	75,903	2,374,796	9,852,251
	Dema	nd			Term	,			
	Dema	- IIu	Total		161111			Total	
	Non interest	latere et	demand	Within 3	3 to 6	6 to 12	After 12	term	Total
December 31, 2018	Non-interest bearing	Interest bearing		months	months	months	months		
December 31, 2018	bearing	bearing	deposits	months		months	months	deposits	deposits
Customers				months		months	months		
Customers Bermuda	bearing	bearing	deposits		months			deposits	deposits
Customers  Bermuda  Demand or less than \$100k <sup>1</sup>	1,378,539	bearing 2,158,971		12,387	4,306	8,049	14,644	deposits 39,386	3,576,896
Customers Bermuda	bearing	bearing	deposits		months			deposits	deposits
Customers  Bermuda  Demand or less than \$100k¹  Term - \$100k or more  Total Bermuda	1,378,539 N/A	2,158,971 N/A	3,537,510	12,387 598,528	4,306 92,427	8,049 184,337	14,644 43,414	39,386 918,706	3,576,896 918,706
Customers  Bermuda  Demand or less than \$100k¹  Term - \$100k or more	1,378,539 N/A	2,158,971 N/A	3,537,510 — 3,537,510	12,387 598,528	4,306 92,427 96,733	8,049 184,337	14,644 43,414	39,386 918,706 958,092	3,576,896 918,706 4,495,602
Customers Bermuda Demand or less than \$100k¹ Term - \$100k or more Total Bermuda Non-Bermuda	1,378,539 N/A 1,378,539	2,158,971 N/A 2,158,971	3,537,510	12,387 598,528 610,915	4,306 92,427	8,049 184,337 192,386	14,644 43,414 58,058	39,386 918,706	3,576,896 918,706
Customers Bermuda Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda Demand or less than \$100k¹	1,378,539 N/A 1,378,539 732,957	2,158,971 N/A 2,158,971 3,179,376	3,537,510 — 3,537,510	12,387 598,528 610,915	4,306 92,427 96,733 5,386	8,049 184,337 192,386 4,705	14,644 43,414 58,058	39,386 918,706 958,092	3,576,896 918,706 4,495,602 3,941,645
Customers  Bermuda  Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda  Demand or less than \$100k¹ Term and \$100k or more	1,378,539 N/A 1,378,539 732,957 N/A	2,158,971 N/A 2,158,971 3,179,376 N/A	3,537,510 — 3,537,510 3,912,333 —	12,387 598,528 610,915 18,714 608,390	4,306 92,427 96,733 5,386 126,022	8,049 184,337 192,386 4,705 235,278	14,644 43,414 58,058 507 11,482	39,386 918,706 958,092 29,312 981,172	3,576,896 918,706 4,495,602 3,941,645 981,172
Customers Bermuda  Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda  Demand or less than \$100k¹ Term and \$100k or more  Total non-Bermuda	1,378,539 N/A 1,378,539 732,957 N/A 732,957	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376	3,537,510 — 3,537,510 3,912,333 — 3,912,333	12,387 598,528 610,915 18,714 608,390 627,104	4,306 92,427 96,733 5,386 126,022 131,408	8,049 184,337 192,386 4,705 235,278 239,983	14,644 43,414 58,058 507 11,482 11,989	39,386 918,706 958,092 29,312 981,172 1,010,484	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817
Customers Bermuda  Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda  Demand or less than \$100k¹ Term and \$100k or more  Total non-Bermuda  Total customer deposits	1,378,539 N/A 1,378,539 732,957 N/A 732,957	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376	3,537,510 — 3,537,510 3,912,333 — 3,912,333	12,387 598,528 610,915 18,714 608,390 627,104	4,306 92,427 96,733 5,386 126,022 131,408	8,049 184,337 192,386 4,705 235,278 239,983	14,644 43,414 58,058 507 11,482 11,989	39,386 918,706 958,092 29,312 981,172 1,010,484	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817
Customers Bermuda  Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda  Demand or less than \$100k¹ Term and \$100k or more  Total non-Bermuda  Total customer deposits  Banks	1,378,539 N/A 1,378,539 732,957 N/A 732,957	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376	3,537,510 — 3,537,510 3,912,333 — 3,912,333	12,387 598,528 610,915 18,714 608,390 627,104	4,306 92,427 96,733 5,386 126,022 131,408	8,049 184,337 192,386 4,705 235,278 239,983	14,644 43,414 58,058 507 11,482 11,989	39,386 918,706 958,092 29,312 981,172 1,010,484	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817
Customers Bermuda Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda Demand or less than \$100k¹ Term and \$100k or more  Total non-Bermuda  Total customer deposits  Banks Bermuda	1,378,539 N/A 1,378,539 732,957 N/A 732,957 2,111,496	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376	3,537,510 — 3,537,510 3,912,333 — 3,912,333 7,449,843	12,387 598,528 610,915 18,714 608,390 627,104	4,306 92,427 96,733 5,386 126,022 131,408	8,049 184,337 192,386 4,705 235,278 239,983	14,644 43,414 58,058 507 11,482 11,989	39,386 918,706 958,092 29,312 981,172 1,010,484	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817 9,418,419
Customers Bermuda  Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda  Demand or less than \$100k¹ Term and \$100k or more  Total non-Bermuda  Total customer deposits  Banks  Bermuda  Demand or less than \$100k	1,378,539 N/A 1,378,539 732,957 N/A 732,957 2,111,496	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376	3,537,510 — 3,537,510 3,912,333 — 3,912,333 7,449,843	12,387 598,528 610,915 18,714 608,390 627,104	4,306 92,427 96,733 5,386 126,022 131,408	8,049 184,337 192,386 4,705 235,278 239,983	14,644 43,414 58,058 507 11,482 11,989	39,386 918,706 958,092 29,312 981,172 1,010,484	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817 9,418,419
Customers Bermuda  Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda  Non-Bermuda  Demand or less than \$100k¹ Term and \$100k or more  Total non-Bermuda  Total customer deposits  Banks  Bermuda  Demand or less than \$100k  Non-Bermuda	1,378,539 N/A 1,378,539 732,957 N/A 732,957 2,111,496	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376 5,338,347	3,537,510 — 3,537,510 3,912,333 — 3,912,333 7,449,843	12,387 598,528 610,915 18,714 608,390 627,104	4,306 92,427 96,733 5,386 126,022 131,408	8,049 184,337 192,386 4,705 235,278 239,983 432,369	14,644 43,414 58,058 507 11,482 11,989	39,386 918,706 958,092 29,312 981,172 1,010,484	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817 9,418,419
Customers Bermuda Demand or less than \$100k¹ Term - \$100k or more Total Bermuda Non-Bermuda Demand or less than \$100k¹ Term and \$100k or more Total non-Bermuda Total customer deposits Banks Bermuda Demand or less than \$100k Non-Bermuda Demand or less than \$100k	1,378,539 N/A 1,378,539 732,957 N/A 732,957 2,111,496	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376 5,338,347	3,537,510 — 3,537,510 3,912,333 — 3,912,333 7,449,843	12,387 598,528 610,915 18,714 608,390 627,104 1,238,019	4,306 92,427 96,733 5,386 126,022 131,408 228,141	8,049 184,337 192,386 4,705 235,278 239,983 432,369	14,644 43,414 58,058 507 11,482 11,989 70,047	39,386 918,706 958,092 29,312 981,172 1,010,484 1,968,576	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817 9,418,419 8,100
Customers Bermuda Demand or less than \$100k¹ Term - \$100k or more Total Bermuda Non-Bermuda Demand or less than \$100k¹ Term and \$100k or more Total non-Bermuda Total customer deposits Banks Bermuda Demand or less than \$100k Non-Bermuda Demand or less than \$100k Term and \$100k or more	1,378,539 N/A 1,378,539 732,957 N/A 732,957 2,111,496  8,100 — N/A	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376 5,338,347  — 18,965 N/A	3,537,510  3,537,510  3,912,333  3,912,333  7,449,843  8,100  18,965  —	12,387 598,528 610,915 18,714 608,390 627,104 1,238,019 — — 6,656	## ## ## ## ## ## ## ## ## ## ## ## ##	8,049 184,337 192,386 4,705 235,278 239,983 432,369	14,644 43,414 58,058 507 11,482 11,989 70,047	39,386 918,706 958,092 29,312 981,172 1,010,484 1,968,576	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817 9,418,419 8,100 18,965 6,757
Customers Bermuda Demand or less than \$100k¹ Term - \$100k or more  Total Bermuda Non-Bermuda Demand or less than \$100k¹ Term and \$100k or more  Total non-Bermuda  Total customer deposits  Banks Bermuda Demand or less than \$100k Non-Bermuda Demand or less than \$100k Term and \$100k or more  Total non-Bermuda	1,378,539 N/A 1,378,539 732,957 N/A 732,957 2,111,496  8,100  N/A	2,158,971 N/A 2,158,971 3,179,376 N/A 3,179,376 5,338,347  — 18,965 N/A 18,965	3,537,510  3,537,510  3,912,333  3,912,333  7,449,843  8,100  18,965  18,965	12,387 598,528 610,915 18,714 608,390 627,104 1,238,019 — — 6,656 6,656	## ## ## ## ## ## ## ## ## ## ## ## ##	8,049 184,337 192,386 4,705 235,278 239,983 432,369 ————————————————————————————————————	14,644 43,414 58,058 507 11,482 11,989 70,047	39,386 918,706 958,092  29,312 981,172 1,010,484 1,968,576  — 6,757 6,757	3,576,896 918,706 4,495,602 3,941,645 981,172 4,922,817 9,418,419 8,100 18,965 6,757 25,722

<sup>&</sup>lt;sup>1</sup> The weighted-average interest rate on interest-bearing demand deposits as at June 30, 2019 is 0.07% (December 31, 2018: 0.13%).

(In thousands of US dollars, unless otherwise stated)

By Type and Segment		June 30, 2019			December 31, 2018			
	Payable on demand	Payable on a fixed date	Total	Payable on demand	Payable on a fixed date	Total		
Bermuda								
Customers	3,528,480	1,053,180	4,581,660	3,537,510	958,092	4,495,602		
Banks	11,959	_	11,959	8,100	_	8,100		
Cayman								
Customers	2,901,257	536,840	3,438,097	2,847,793	472,442	3,320,235		
Banks	18,665	4,112	22,777	17,564	6,757	24,321		
Channel Islands and the UK								
Customers	1,017,094	780,664	1,797,758	1,064,540	538,042	1,602,582		
Banks	_	_	_	1,401	_	1,401		
Total Customers	7,446,831	2,370,684	9,817,515	7,449,843	1,968,576	9,418,419		
Total Banks	30,624	4,112	34,736	27,065	6,757	33,822		
Total deposits	7,477,455	2,374,796	9,852,251	7,476,908	1,975,333	9,452,241		

### 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 United Kingdom jurisdictions and the defined benefit post-retirement medical plan is in Bermuda.

The Bank includes an estimate of the 2019 Bank contribution and estimated benefit payments for the next ten years under the pension and post-retirement plans in its financial statements for the year-ended December 31, 2018. During the six months ended June 30, 2019, there have been no material revisions to these estimates.

		Three months ended		Six months ended	
	Line item in the consolidated statements of operations	June 30, 2019	June 30, 2018	June 30, 2019	June 30, 2018
Defined benefit pension expense (income)					
Interest cost	Non-service employee benefits expense	1,259	1,247	2,530	2,518
Expected return on plan assets	Non-service employee benefits expense	(1,891)	(2,187)	(3,800)	(4,411)
Amortization of net actuarial (gains) losses	Non-service employee benefits expense	612	525	1,226	1,051
Amortization of prior service (credit) cost	Non-service employee benefits expense	5	_	10	_
Settlement (gain) loss	Net other gains (losses)	_	1,548	_	1,548
Total defined benefit pension expense (income)		(15)	1,133	(34)	706
Post-retirement medical benefit expense (income)					
Service cost	Salaries and other employee benefits	14	15	29	31
Interest cost	Non-service employee benefits expense	1,185	1,077	2,370	2,153
Amortization of net actuarial (gains) losses	Non-service employee benefits expense	68	653	136	1,307
Amortization of prior service (credit) cost	Non-service employee benefits expense	94	10	188	20
Total post-retirement medical benefit expense (incom-	e)	1,361	1,755	2,723	3,511

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 possible loan losses.

The Bank has a facility by 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, 2019, \$134.5 million (December 31, 2018: \$137.4 million) of standby letters of credit were issued under this facility.

(In thousands of US dollars, unless otherwise stated)

Outstanding unfunded commitments to extend credit	June 30, 2019	December 31, 2018
Commitments to extend credit	432,099	445,215
Documentary and commercial letters of credit	977	561
Total unfunded commitments to extend credit	433,076	445,776

### **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 is 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, 2019		December 31, 2018			
Outstanding financial guarantees		Gross	Collateral	Net	Gross	Collateral	Net
	Standby letters of credit	242,264	235,004	7,260	245,156	237,051	8,105
	Letters of guarantee	2,685	2,599	86	2,685	2,599	86
	Total	244,949	237,603	7,346	247,841	239,650	8,191

### 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 in the securities posted or received as collateral and other credit related events. The Bank manages these risks by ensuring that the collaterals involved are appropriate and by monitoring the value of the securities posted or received as collateral on a daily basis.

As at June 30, 2019, the Bank had 12 open positions (December 31, 2018: 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 \$166.3 million (December 31, 2018: \$27.3 million) and are included in securities purchased under agreement to resell on the consolidated balance sheets. As at June 30, 2019, there were no positions (December 31, 2018: no positions) which were offset on the balance sheet 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 paragraphs.

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. The Bank has been fully cooperating with the US authorities in their ongoing investigation. Specifically, the Bank has conducted an extensive review and account remediation exercise to determine the US tax compliance status of US person account holders. The review process and results have been shared with the US authorities.

Management believes that as of June 30, 2019, a provision of \$5.5 million (December 31, 2018: \$5.5 million), which has been recorded, is appropriate. As the investigation remains ongoing at this time, the timing and terms of the final resolution, including any fines or penalties, remain uncertain and the financial impact to the Bank could exceed the amount of the provision. In this regard, we note that the US authorities have not approved or commented on the adequacy or reasonableness of the estimate. The provision is included on the consolidated balance sheets under other liabilities.

### 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 2025.

	Three months ended	Six months ended
	June 30, 2019	June 30, 2019
Lease costs		
Operating lease costs	1,354	2,580
Variable lease costs	_	_
Short-term lease costs	216	412
Sublease (income)	(3)	(8)
Total net lease cost	1,567	2,984
Operating lease income	281	588

(In thousands of US dollars, unless otherwise stated)

	Three months ended	Six months ended
	June 30, 2019	June 30, 2019
Other information for the period		
Right-of-use assets related to new operating lease liabilities	2,305	2,643
Operating cash flows from operating leases	1,337	2,686
Other information at end of period		As at June 30, 2019
Operating leases right-of-use assets (included in other assets on the balance sheets)		21,906
Operating leases liabilities (included in other liabilities on the balance sheets)		21,255
Weighted average remaining lease term for operating leases (in years)		5.04 years
Weighted average discount rate for operating leases		5.25%

The following table summarizes the Bank's commitments for long-term leases as at December 31, 2018:

Year ending December 31	Leases
2019	5,448
2020	5,524
2021	4,696
2022	4,317
2023	3,609
2024 & thereafter	3,583
Total commitments	27,177

### Note 12: Segmented information

The Bank is managed by the CEO on a geographic basis. In 2017, the Bank presented six segments which included Bermuda, Cayman, Guernsey, Switzerland, The Bahamas and the United Kingdom. In 2018, the Bank reassessed the segment reporting as a result of acquisitions which were announced in 2017 and early 2018 and concluded on the following three geographic segments: Bermuda, Cayman, and Channel Islands and the UK. The Other segment is composed of several non-reportable operating segments that have been aggregated in accordance with US GAAP. Each region has a managing director who reports to the CEO. The CEO and the region 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 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, 2018. 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 expense. 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 full range of retail, commercial and private banking services. Retail services are offered to individuals and small to medium-sized businesses through four 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 institutions including private banking and treasury services, internet banking, wealth management and fiduciary services. 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.

(In thousands of US dollars, unless otherwise stated)

Total Assets by Segment	June 30, 2019	December 31, 2018
Bermuda	5,503,272	5,387,347
Cayman	3,825,969	3,705,468
Channel Islands and the UK	2,173,257	1,966,547
Other	34,879	30,035
Total assets before inter-segment eliminations	11,537,377	11,089,397
Less: inter-segment eliminations	(308,408)	(316,219)
Total	11,228,969	10,773,178

	Net interest income				Revenue				
Three months ended June 30, 2019	Customer	Inter- segment	Provision for credit losses	Non-interest income	before gains and losses	Gains and losses	Total net revenue	Total expenses	Net income
Bermuda	45,894	493	(890)	22,378	67,875	210	68,085	58,383	9,702
Cayman	28,829	170	320	12,621	41,940	_	41,940	15,169	26,771
Channel Islands and the UK	10,418	(663)	1,494	7,019	18,268	-	18,268	15,785	2,483
Other	15	_	_	5,371	5,386	(17)	5,369	5,683	(314)
Total before eliminations	85,156	_	924	47,389	133,469	193	133,662	95,020	38,642
Inter-segment eliminations	_	_	_	(3,150)	(3,150)	_	(3,150)	(3,150)	_
Total	85,156	_	924	44,239	130,319	193	130,512	91,870	38,642

	Net interes	t income			Revenue				
Three months ended June 30, 2018	Customer	Inter- segment	Provision for credit losses	Non-interest income	before gains and losses	Gains and losses	Total net revenue	Total expenses	Net income
Bermuda	53,050	647	997	22,124	76,818	186	77,004	47,874	29,130
Cayman	25,267	_	(738)	11,712	36,241	(80)	36,161	15,279	20,882
Channel Islands and the UK	9,073	(647)	265	7,011	15,702	(1,683)	14,019	13,362	657
Other	6	_	_	3,675	3,681	_	3,681	4,638	(957)
Total before eliminations	87,396	_	524	44,522	132,442	(1,577)	130,865	81,153	49,712
Inter-segment eliminations	_	_	_	(2,583)	(2,583)	_	(2,583)	(2,583)	_
Total	87,396	_	524	41,939	129,859	(1,577)	128,282	78,570	49,712

	Net interes	t income			Revenue				
Six months ended June 30, 2019	Customer	Inter- segment	Provision for credit losses	Non-interest income	before gains and losses	Gains and losses	Total net revenue	Total expenses	Net income
Bermuda	93,316	979	(737)	44,033	137,591	1,956	139,547	106,186	33,361
Cayman	59,380	329	293	25,683	85,685	5	85,690	29,813	55,877
Channel Islands and the UK	20,411	(1,308)	1,407	13,682	34,192	-	34,192	31,445	2,747
Other	27	_	_	10,488	10,515	(17)	10,498	11,734	(1,236)
Total before eliminations	173,134	_	963	93,886	267,983	1,944	269,927	179,178	90,749
Inter-segment eliminations	_	_	_	(6,267)	(6,267)	_	(6,267)	(6,267)	_
Total	173,134	_	963	87,619	261,716	1,944	263,660	172,911	90,749

	Net interest	income			Revenue				
Six months ended June 30, 2018	Customer	Inter- segment	Provision for credit losses	Non-interest income	before gains and losses	Gains and losses	Total net revenue	Total expenses	Net income
Bermuda	100,724	1,246	2,808	43,044	147,822	115	147,937	99,495	48,442
Cayman	48,937	1	(535)	23,179	71,582	349	71,931	29,896	42,035
Channel Islands and the UK	17,619	(1,247)	193	14,632	31,197	(1,688)	29,509	24,895	4,614
Other	11	_	_	6,647	6,658	_	6,658	7,840	(1,182)
Total before eliminations	167,291	_	2,466	87,502	257,259	(1,224)	256,035	162,126	93,909
Inter-segment eliminations	_	_	_	(5,802)	(5,802)	_	(5,802)	(5,802)	_
Total	167,291	_	2,466	81,700	251,457	(1,224)	250,233	156,324	93,909

(In thousands of US dollars, unless otherwise stated)

### 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 consist of designated interest rate swaps and are used to minimize the Bank's exposure to changes in the fair value of assets and liabilities due to movements in interest rates. The Bank previously entered into interest rate swaps to convert its fixed-rate long-term loans to floating-rate loans, and convert fixed-rate deposits to floating-rate deposits. During the year ended December 31, 2011, the Bank canceled its interest rate swaps designated as fair value hedges of loans receivable and therefore discontinued hedge accounting for these financial instruments. The fair value attributable to the hedged loans are accounted for prospectively and are being amortized to net income over the remaining life of each individual loan, which could extend to year 2029, using the effective interest method.

**Net investment hedges** includes 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 AOCL 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 AOCL (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 AOCL 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 AOCL 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 loss for details on the amount recognized into AOCL during the current period from translation gain or loss.

**Derivatives not formally designated as hedges** are entered into to manage the interest rate risk of fixed rate deposits and 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 income.

### Client service derivatives

The Bank enters into foreign exchange contracts and interest rate caps 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 income.

(In thousands of US dollars, unless otherwise stated)

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. 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.

June 30, 2019	Derivative instrument	Number of contracts	Notional amounts	Gross positive fair value	Gross negative fair value	Net fair value
Risk management derivatives						
Derivatives not formally designated as hedging instruments	Currency swaps	4	86,709	488	(137)	351
Client services derivatives	Spot and forward foreign exchange	342	2,020,061	3,808	(3,437)	371
Total derivative instruments			2,106,770	4,296	(3,574)	722
December 31, 2018	Derivative instrument	Number of contracts	Notional amounts	Gross positive fair value	Gross negative fair value	Net fair value
Risk management derivatives						
Derivatives not formally designated as hedging instruments	Currency swaps	8	238,810	269	(601)	(332)
Client services derivatives	Spot and forward foreign exchange	288	2,064,762	13,331	(12,671)	660
Total derivative instruments			2,303,572	13,600	(13,272)	328

In addition to the above, as at June 30, 2019 foreign denominated deposits of £124.5 million (December 31, 2018: £124.5 million), CHF 0.4 million (December 31, 2018: SGD 4.0 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 collaterals 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.

		Less: offset	N 461 1 =	Less: positions no consolidated ba		
June 30, 2019	applied Gross fair under master produce netting recognized agreements		Net fair value presented in the consolidated balance sheets	Gross fair value of derivatives	Cash collateral received / paid	Net exposures
Derivative assets						
Spot and forward foreign exchange and currency swaps	4,296	(550)	3,746	-	(324)	3,422
Derivative liabilities						
Spot and forward foreign exchange and currency swaps	3,574	(550)	3,024	_	_	3,024
Net positive fair value			722		_	
		Less: offset	Net fair value ■	Less: positions no consolidated ba		
December 31, 2018	Gross fair value recognized	applied under master netting agreements	presented in the consolidated balance sheets	Gross fair value of derivatives	Cash collateral received / paid	Net exposures
Derivative assets						
Spot and forward foreign exchange and currency swaps	13,600	(2,036)	11,564	_	(3,216)	8,348
Derivative liabilities						
Spot and forward foreign exchange and currency swaps	40.070	(0.000)	44.000		(4.004)	9,375
.,	13,272	(2,036)	11,236	_	(1,861)	3,373

(In thousands of US dollars, unless otherwise stated)

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.

		Three months ended		Six month	is ended
Derivative instrument	Consolidated statements of operations line item	June 30, 2019	June 30, 2018	June 30, 2019	June 30, 2018
Spot and forward foreign exchange	Foreign exchange revenue	(178)	(853)	(288)	(425)
Currency swaps, not designated as hedge	Foreign exchange revenue	(2,323)	15,092	682	17,196
Total net gains (losses) recognized in net income		(2,501)	14,239	394	16,771

### 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, 2018.

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 actively traded redeemable mutual funds.

Financial instruments in Level 2 include corporate bonds, mortgage-backed securities and other asset-backed securities, forward foreign exchange contracts and mutual funds not actively traded.

Financial instruments in Level 3 include asset-backed securities for which the market is relatively illiquid and for which information about actual trading prices is 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, 2019 and the year ended December 31, 2018.

	June 30, 2019 Fair value			Total	December 31, 2018 Fair value			Total
	Level 1	Level 2	Level 3	carrying amount / fair value	Level 1	Level 2	Level 3	carrying amount / fair value
Items that are recognized at fair value on a rec	urring basis:							
Financial assets								
Trading investments								
Mutual funds	6,860	292	_	7,152	6,176	319	_	6,495
Total trading	6,860	292	_	7,152	6,176	319	_	6,495
Available-for-sale investments								
US government and federal agencies	_	1,889,751	_	1,889,751	_	1,786,507	_	1,786,507
Non-US governments debt securities	_	25,279	_	25,279	_	25,425	_	25,425
Corporate debt securities	_	64,761	_	64,761	_	78,713	_	78,713
Asset-backed securities - Student loans	_	_	12,758	12,758	_	_	12,626	12,626
Commercial mortgage-backed securities	_	126,019	_	126,019	_	123,209	_	123,209
Residential mortgage-backed securities	_	150,303	_	150,303	_	156,269	_	156,269
Total available-for-sale	_	2,256,113	12,758	2,268,871	_	2,170,123	12,626	2,182,749
Other assets - Derivatives	_	3,746	_	3,746	_	11,564	_	11,564
Financial liabilities								
Other liabilities - Derivatives	_	3,024	_	3,024	_	11,236		11,236

### **Level 3 Reconciliation**

The Level 3, shown as Asset-backed securities - Student loans in the above table, is a federal family education loan program guaranteed student loan security and is valued using a non-binding broker quote. The fair value provided by the broker is based on the last trading price of similar securities but as the market for the security is illiquid, a Level 2 classification is not supported.

(In thousands of US dollars, unless otherwise stated)

	Six months ended June 30, 2019	Year ended December 31, 2018
	Available- for-sale investments	Available- for-sale investments
Carrying amount at beginning of period	12,626	12,493
Realized and unrealized gains (losses) recognized in other comprehensive income	132	133
Carrying amount at end of period	12,758	12,626

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

		,	June 30, 2019		De	ecember 31, 2018	3
	Level	Carrying amount	Fair value	Appreciation / (depreciation)	Carrying amount	Fair value	Appreciation / (depreciation)
Financial assets							
Cash due from banks	Level 1	2,010,980	2,010,980	_	2,053,883	2,053,883	_
Securities purchased under agreement to resell	Level 2	166,333	166,333	_	27,341	27,341	_
Short-term investments	Level 1	163,310	163,310	_	52,336	52,336	_
Investments held-to-maturity	Level 2	2,248,228	2,280,541	32,313	2,066,120	2,036,214	(29,906)
Loans, net of allowance for credit losses	Level 2	3,999,730	4,013,985	14,255	4,043,889	4,047,262	3,373
Other real estate owned <sup>1</sup>	Level 2	4,687	4,687	_	5,346	5,346	_
Financial liabilities							
Customer deposits							
Demand deposits	Level 2	7,446,831	7,446,831	_	7,449,843	7,449,843	_
Term deposits	Level 2	2,370,684	2,372,557	(1,873)	1,968,576	1,970,004	(1,428)
Deposits from banks	Level 2	34,736	34,736	_	33,822	33,822	_
Long-term debt	Level 2	143,411	148,580	(5,169)	143,322	146,261	(2,939)

<sup>&</sup>lt;sup>1</sup> The current carrying value of OREO is adjusted to fair value only when there is devaluation below carrying value.

(In thousands of US dollars, unless otherwise stated)

### Note 15: Interest rate risk

The following tables set out the assets, liabilities and shareholders' equity and off-balance sheet instruments 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.

					N	lon-interest	
(in \$ millions)	Within 3 months	3 to 6 months	6 to 12 months	1 to 5 years	After 5 years	bearing funds	Total
Assets							
Cash due from banks	1,815	_	_	_	_	196	2,011
Securities purchased under agreement to resell	166	_	_	_	_	_	166
Short-term investments	76	75	5	_	_	7	163
Investments	457	3	45	202	3,810	7	4,524
Loans	3,234	5	17	262	459	23	4,000
Other assets	_	_	_	_	_	365	365
Total assets	5,748	83	67	464	4,269	598	11,229
Liabilities and shareholders' equity							
Shareholders' equity	_	_	_	_	_	929	929
Demand deposits	5,184	_	_	_	-	2,293	7,477
Term deposits	1,630	255	414	76	_	_	2,375
Other liabilities	_	_	_	_	_	305	305
Long-term debt	70	_	_	73	_	_	143
Total liabilities and shareholders' equity	6,884	255	414	149	_	3,527	11,229
Interest rate sensitivity gap	(1,136)	(172)	(347)	315	4,269	(2,929)	_
O and the first telephone to the control of the con	(4.426)	(4 200)	(A CEE)	(4.240)	2,929		
Cumulative interest rate sensitivity gap	(1,136)	(1,308)	(1,655)	(1,340)	2,929		
					2,929		
December 31, 2018			ual maturity or re			Non-interest	
						Non-interest bearing funds	Total
December 31, 2018	Ea Within 3	rlier of contractu	ual maturity or re	pricing date	After	bearing	Total
December 31, 2018 (in \$ millions)	Ea Within 3	rlier of contractu	ual maturity or re	pricing date	After	bearing	
December 31, 2018  (in \$ millions)  Assets	Ea Within 3 months	rlier of contractu	ual maturity or re	pricing date	After	bearing funds	2,054
December 31, 2018  (in \$ millions)  Assets  Cash due from banks	Within 3 months	3 to 6 months	ual maturity or re	pricing date	After	bearing funds	2,054 27
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell	Within 3 months  1,930 27	3 to 6 months	ual maturity or re	pricing date	After 5 years	bearing funds  124	2,054 27 52
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments	Within 3 months  1,930 27 40	3 to 6 months  — — 10	6 to 12 months	1 to 5 years  — — —	After 5 years	bearing funds  124  2	2,054 27 52 4,255
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments	Uithin 3 months  1,930 27 40 488	3 to 6 months  — 10 35	6 to 12 months  — — — 8	1 to 5 years  — — — 245	After 5 years — — — — — 3,473	bearing funds  124  2 6	Total 2,054 27 52 4,255 4,044 341
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans	Uithin 3 months  1,930 27 40 488	3 to 6 months  — 10 35	6 to 12 months  — — — 8	1 to 5 years  — — — 245	After 5 years — — — — — 3,473	bearing funds  124  2 6 15	2,054 27 52 4,255 4,044
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans  Other assets	Uithin 3 months  1,930 27 40 488 3,160 —	3 to 6 months  — 10 35 278 —	6 to 12 months	1 to 5 years  — — — 245 223 —	After 5 years	bearing funds  124  — 2 6 15 341	2,054 27 52 4,255 4,044 341
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans  Other assets  Total assets	Uithin 3 months  1,930 27 40 488 3,160 —	3 to 6 months  — 10 35 278 —	6 to 12 months	1 to 5 years  — — — 245 223 —	After 5 years	bearing funds  124  — 2 6 15 341	2,054 27 52 4,255 4,044 341 10,773
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans  Other assets  Total assets  Liabilities and shareholders' equity	Uithin 3 months  1,930 27 40 488 3,160 —	3 to 6 months  — 10 35 278 —	6 to 12 months	1 to 5 years  — — — 245 223 —	After 5 years	bearing funds  124  — 2 6 15 341 488	2,054 27 52 4,255 4,044 341 10,773
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans  Other assets  Total assets  Liabilities and shareholders' equity  Shareholders' equity	Uithin 3 months  1,930 27 40 488 3,160 — 5,645	7 to 6 months	al maturity or repair to the second s	1 to 5 years	After 5 years	bearing funds  124	2,054 27 52 4,255 4,044 341 10,773
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans  Other assets  Total assets  Liabilities and shareholders' equity  Shareholders' equity  Demand deposits	### Eal  Within 3 months  1,930  27  40  488  3,160  —  5,645	3 to 6 months	al maturity or repair to the second s	1 to 5 years	After 5 years	bearing funds  124  — 2 6 15 341 488  882 2,120	2,054 27 52 4,255 4,044 341 10,773 882 7,477 1,975
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans  Other assets  Total assets  Liabilities and shareholders' equity  Shareholders' equity  Demand deposits  Term deposits	### Eal  Within 3 months  1,930  27  40  488  3,160  —  5,645	3 to 6 months	al maturity or relation for the second secon	1 to 5 years	After 5 years	bearing funds  124  — 2 6 15 341 488  882 2,120 —	2,054 27 52 4,255 4,044 341 10,773 882 7,477 1,975 296
December 31, 2018  (in \$ millions)  Assets  Cash due from banks  Securities purchased under agreement to resell  Short-term investments  Investments  Loans  Other assets  Total assets  Liabilities and shareholders' equity  Shareholders' equity  Demand deposits  Term deposits  Other liabilities	### Ea  Within 3 months  1,930  27  40  488  3,160  —  5,645  —  5,357  1,245 — —	7 to 6 months	al maturity or report of to 12 months	1 to 5 years	After 5 years	bearing funds  124  — 2 6 15 341 488  882 2,120  — 296	2,054 27 52 4,255 4,044 341
Cin \$ millions)  Assets Cash due from banks Securities purchased under agreement to resell Short-term investments Investments Loans Other assets  Total assets  Liabilities and shareholders' equity Shareholders' equity Demand deposits Term deposits Other liabilities Long-term debt	Ea  Within 3 months  1,930 27 40 488 3,160 — 5,645  — 5,357 1,245 — 70	7 to 6 months	al maturity or report of to 12 months	245 223 — 468 — 70 — 73	After 5 years	bearing funds  124	2,054 27 52 4,255 4,044 341 10,773 882 7,477 1,975 296 143

(In thousands of US dollars, unless otherwise stated)

#### Note 16: Long-term debt

On May 28, 2003, the Bank issued US \$125 million of Subordinated Lower Tier II capital notes. The notes were issued at par and in two tranches, namely US \$78 million in Series A notes due 2013 and US \$47 million in Series B notes due 2018. The issuance was by way of private placement with US institutional investors. The notes are listed on the Bermuda Stock Exchange ("BSX") in the specialist debt securities category. Part of the proceeds of the issue were used to repay the entire amount of the US \$75 million outstanding subordinated notes redeemed in July 2003. The notes issued under Series A paid a fixed coupon of 3.94% until May 27, 2008 when it was redeemed in whole by the Bank. The Series B notes paid a fixed coupon of 5.15% until May 27, 2013 when they became redeemable in whole at the Bank's option. The Series B notes were priced at a spread of 1.35% over the 10-year US Treasury yield. In May 2018, the Bank fully redeemed the 2003 issuance Series B for its nominal value of \$47 million.

On May 27, 2008, the Bank issued US \$78 million of Subordinated Lower Tier II capital notes. The notes were issued at par and in two tranches, namely US \$53 million in Series A notes due 2018 and US \$25 million in Series B notes due 2023. The issuance was by way of private placement with US institutional investors. The notes are listed on the BSX in the specialist debt securities category. The proceeds of the issue were used to repay the entire amount of the US \$78 million outstanding subordinated notes redeemed in May 2008. The notes issued under Series A paid a fixed coupon of 7.59% until May 27, 2013 when they became redeemable in whole at the option of the Bank. In May 2013, the Bank exercised its option to redeem the Series A note outstanding at face value. The Series B notes pay a fixed coupon of 8.44% until May 27, 2018 when they became redeemable in whole at the Bank's option. The Series B notes were priced at a spread of 4.51% over the 10-year US Treasury yield.

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 Bermuda Stock Exchange (BSX) in the specialist debt securities category. The proceeds of the issue were used, among other, 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 they become 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 will be amortized over the life of the notes.

No interest was capitalized during the six months ended June 30, 2019 and the year ended December 31, 2018.

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, 2019. The interest payments are calculated until contractual maturity using the current LIBOR rates.

					_		payments of payments of payments of payments	
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	,			,	,			
2005 issuance - Series B	July 2, 2015	July 2, 2020	5.11%	3 months US\$ LIBOR + 1.695%	45,000	1,836	457	_
2008 issuance - Series B	May 27, 2018	May 27, 2023	8.44%	3 months US\$ LIBOR + 4.929%	25,000	1,842	5,511	_
2018 issuance	June 1, 2023	June 1, 2028	5.25%	3 months US\$ LIBOR + 2.255%	75,000	3,938	15,300	13,922
Total					145,000	7,616	21,268	13,922
Unamortized debt issuance co	osts				(1,589)			
Long-term debt less unamor	rtized debt issuance	costs		•	143,411			

## 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 year. Numbers of shares are expressed in thousands.

During the six months ended June 30, 2019, options to purchase an average of 0.2 million (June 30, 2018: 0.4 million) common shares were outstanding. During the six months ended June 30, 2019, the average number of outstanding awards of unvested common shares was 1.0 million (June 30, 2018: 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 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 weighted-average number of common shares bought back, is included in the number of diluted participating shares.

(In thousands of US dollars, unless otherwise stated)

	Three month	ns ended	Six months ended		
	June 30, 2019	June 30, 2018	June 30, 2019	June 30, 2018	
Not income	20.642	40.740	00.740	93,909	
Net income	38,642	49,712	90,749	93,909	
Basic Earnings Per Share					
Weighted average number of common shares issued	54,686	55,159	55,025	55,023	
Weighted average number of common shares held as treasury stock	(1,619)	_	(1,635)	_	
Weighted average number of common shares (in thousands)	53,067	55,159	53,390	55,023	
Basic Earnings Per Share	0.73	0.90	1.70	1.71	
Diluted Earnings Per Share					
Weighted average number of common shares	53,067	55,159	53,390	55,023	
Net dilution impact related to options to purchase common shares	126	238	127	278	
Net dilution impact related to awards of unvested common shares	354	507	396	563	
Weighted average number of diluted common shares (in thousands)	53,547	55,904	53,913	55,864	
Diluted Earnings Per Share	0.72	0.89	1.68	1.68	

## 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 share-based 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 shares 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 respectively 5.0 million and 7.5 million shares.

## Stock Option Awards

## 1997 Stock Option Plan

Prior to the capital raise on March 2, 2010, the Bank granted stock options to employees and Directors of the Bank that entitle the holder to purchase one common share at a subscription price equal to the market price on the effective date of the grant. Generally, the options granted vest 25 percent at the end of each year for four years, however as a result of the 2010 capital raise, the options granted under the Bank's 1997 Stock Option Plan to employees became fully vested and options awarded to certain executives were surrendered.

## 2010 Plan

Under the 2010 Plan, 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 Plan 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.

(In thousands of US dollars, unless otherwise stated)

## Changes in Outstanding Stock Ontions

Changes in Outstanding Stock Options								
		hares transferable cise (thousands)	e upon	Weighted exercise		Weighted remaining		Aggregate
Six months ended June 30, 2019	1997 Stock Option Plan	2010 Stock Option Plan	Total	1997 Stock Option Plan	2010 Stock Option Plan	1997 Stock Option Plan	2010 Stock Option Plan	intrinsic value (\$ thousands)
Outstanding at beginning of period	25	189	214	64.51	11.98			
Exercised	_	(1)	(1)	_	11.50			24
Expiration at end of plan life	(25)	_	(25)	64.51	_			
Outstanding at end of period	_	188	188	_	11.98	_	1.17	4,139
Vested and exercisable at end of period	_	188	188	_	11.98	<u> </u>	1.17	
		hares transferable cise (thousands)	upon	Weighted exercise		Weighted remaining		Aggregate
Six months ended June 30, 2018	1997 Stock Option Plan	2010 Stock Option Plan	Total	1997 Stock Option Plan	2010 Stock Option Plan	1997 Stock Option Plan	2010 Stock Option Plan	intrinsic value (\$ thousands)
Outstanding at beginning of period	58	476	534	113.46	11.73			
Exercised	_	(167)	(167)	_	11.60			4,671

(33)334

334

309

309

150.95

64.51

64.51

11.79

11.79

0.70

0.70

2.04

2.04

10,480

### **Share Based Plans**

Forfeitures and cancellations

Vested and exercisable at end of period

Outstanding at end of period

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, 2019 was \$35.96 (December 31, 2018: \$39.25). The Bank expects to settle these awards by issuing new shares.

### Employee Deferred Incentive Plan ("EDIP")

Under the Bank's EDIP Plan, shares were 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 Plan ("ELTIP") - Years 2013 - 2019

The 2019 ELTIP was approved on January 14, 2019. Under the Bank's ELTIP plans for the years 2013 through 2019, 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.

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

(33)

25

25

	Six months ended			
	June 30, 2	019	June 30, 20	018
	EDIP	ELTIP	EDIP	ELTIP
Outstanding at beginning of period	234	697	244	679
Granted	162	288	125	230
Vested (fair value in 2019: \$13.0 million, 2018: \$13.0 million)	(119)	(242)	(120)	(169)
Resignations	(1)	(1)	(2)	(3)
Outstanding at end of period	276	742	247	737

## Share-based Compensation Cost Recognized in Net Income

Siv	months	hahna

	June 30, 2019			J	une 30, 2018	
	Stock option plans	EDIP and ELTIP	Total	Stock option plans	EDIP and ELTIP	Total
Cost recognized in net income		10,548	10,548	_	5,276	5,276

(In thousands of US dollars, unless otherwise stated)

### **Unrecognized Share-based Compensation Cost**

	June 3	0, 2019	December	r 31, 2018
	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	6,872	2.01	4,442	1.73
ELTIP				
Time vesting shares	573	0.61	1,746	1.03
Performance vesting shares	12,788	2.17	7,880	1.85
Total unrecognized expense	20,233		14,068	

### Note 19: Share buy-back plans

The Bank initially introduced two share buy-back programs on May 1, 2012 as a means to improve shareholder liquidity and facilitate growth in share value. Each program was approved by the Board of Directors for a period of 12 months, in accordance with the regulations of the BSX. The BSX must be advised monthly of shares purchased pursuant to each program.

From time to time the Bank's associates, insiders and insiders' associates as defined by the BSX regulations may sell shares which may result in such shares being repurchased pursuant to each program, provided no more than any such person's pro-rata share of the listed securities is repurchased. Pursuant to the BSX regulations, all repurchases made by any issuer pursuant to a securities repurchase program must be made: (1) in the open market and not by private agreement; and (2) for a price not higher than the last independent trade for a round lot of the relevant class of securities.

## Common Share Buy-Back Program

On February 15, 2018, the Board approved, with effect on April 1, 2018, the 2018 common share buy-back program, authorizing the purchase for treasury of up to 1.0 million common shares.

On December 6, 2018, the Board approved, with effect from December 10, 2018 to February 29, 2020, a common share buy-back program, authorizing the purchase for treasury of up to 2.5 million common shares.

In the six months ended June 30, 2019, the Bank canceled 1,120,000 shares which were previously held as Treasury Shares resulting from these buybacks.

	Six months ended		Year ended De	cember 31		
Common share buy-backs	June 30, 2019	2018	2017	2016	2015	Total
Acquired number of shares (to the nearest 1)	1,485,000	1,254,212	_	97,053	250,371	3,086,636
Average cost per common share	36.18	38.62	_	16.36	19.42	35.19
Total cost (in US dollars)	53,729,102	48,442,768	_	1,588,189	4,862,248	108,622,307

(In thousands of US dollars, unless otherwise stated)

Note 20: Accumulated other comprehensive loss

	Unrealized (losses) on translation of		Unreal	ized		Employee benefit	plans	_
Six months ended June 30, 2019	net investment in foreign operations	HTM investments	gains (los	ses) AFS	Pensi	Post retiremen on healthcar	it employee	Total AOCL
Balance at beginning of period	(19,866)	(796)	(43,	,630)	(64,8	92) (19,34	3) (84,235)	(148,527)
Other comprehensive income (loss), net of taxes	(263)	26	44,	,069	1,2	92 32	4 1,616	45,448
Balance at end of period	(20,129)	(770)		439	(63,6	00) (19,01	9) (82,619)	) (103,079)
	Unrealized (losses)					Employee benefit p	olans	
	on translation of net investment in		Unreal gains (los	ses)		Post	t- Subtotal -	-
Six months ended June 30, 2018	foreign operations	HTM investments	on investm	AFS ents	Pensi	retiremen ion healthcar		Total AOCL
Balance at beginning of period	(17,549)	(839)	(15,	,737)	(61,3	41) (33,58	6) (94,927)	(129,052)
Other comprehensive income (loss), net of taxes	(1,022)	24	(34,	,461)	(2	(55) 1,32	7 1,072	
Balance at end of period	(18,571)	(815)	(50,	,198)	(61,5	96) (32,25	9) (93,855)	) (163,439)
N. C.				The		0	0'	
Net Change of AOCL Components	Line item in the	consolidated		Inre	e moni	ths ended	Six month	s ended
	statements of o		ny	June 30, 2	2019	June 30, 2018	June 30, 2019	June 30, 2018
Net unrealized gains (losses) on translation of net investment in foreign operations adjustments								
Foreign currency translation adjustments	N/A			(4	,855)	(12,526)	(861)	(7,033)
Gains (loss) on net investment hedge	N/A			3	,778	10,320	598	6,011
Net change	1			(1	,077)	(2,206)	(263)	(1,022)
Held-to-maturity investment adjustments								
Amortization of net gains (losses) to net income	Interest income of	on investments			19	2	26	24
Net change					19	2	26	24
Available-for-sale investment adjustments						(=)		(0.0 -0-)
Gross unrealized gains (losses)	N/A	// \ A	F0	22	,785	(5,696)	45,041	(33,567)
Transfer of realized (gains) losses to net income	Net realized gain investments	is (losses) on A	FS		_	(44)	(972)	(894)
Net change				22	,785	(5,740)	44,069	(34,461)
Employee benefit plans adjustments								
Defined benefit pension plan								
Net actuarial gain (loss)	N/A				_	(3,236)	_	(3,236)
Net loss (gain) on settlement reclassified to net income	Net other gains (	losses)			_	1,554	_	1,554
Amortization of net actuarial (gains) losses	Non-service emp		expense		612	525	1,226	1,051
Amortization of prior service (credit) cost	Non-service emp	loyee benefits	expense		5	_	10	_
Foreign currency translation adjustments of related balance	s N/A				333	864	56	376
Net change	'				950	(293)	1,292	(255)
Post-retirement healthcare plan								
Amortization of net actuarial (gains) losses	Non-service emp	loyee benefits	expense		68	653	136	1,307
Amortization of prior service (credit) cost	Non-service emp				94	10	188	20
Net change			· · ·		162	663	324	1,327
01					.000	/7.F7.1\	45.440	(0.1.00=)
Other comprehensive income (loss), net of taxes				22	,839	(7,574)	45,448	(34,387)

(In thousands of US dollars, unless otherwise stated)

### Note 21: Capital structure

### **Authorized Capital**

On September 16, 2016, the Bank began trading on the New York Stock Exchange under the ticker symbol "NTB". The offering of 12,234,042 common shares consisted of 5,957,447 newly issued common shares sold by Butterfield and 6,276,595 common shares sold by certain selling shareholders, including 1,595,744 common shares sold by certain of the selling shareholders pursuant to the underwriters' option to purchase additional shares, which was exercised in full prior to the closing.

On July 25, 2016, the Bank's board of directors approved a consolidation of the existing common shares on the basis of a 10 to 1 ratio, subject to shareholder approval. As a result of this consolidation, effective September 6, 2016 upon shareholder approval, every 10 common shares of par value BM\$0.01 were consolidated into 1 common share of par value BM\$0.10 (the "Share Consolidation").

In addition, as of September 6, 2016, the par value of each issued common share and each authorized but unissued common share was reduced from BM\$0.10 to BM\$0.01 and the authorized share capital of the Bank was correspondingly reduced from 2,000,000,000 common shares of par value BM\$0.10 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 to 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 E0.01 each, without any payment by the Bank to the holders of the voting ordinary shares in respect thereof (the "Reduction in Par Value" and together with the Share Consolidation, the "Reverse Share Split").

Immediately following the Reduction in Par Value, the Bank repurchased any and all fractions of common shares issued and outstanding from the holders thereof. All share, share-based payments and dividend information presented in these consolidated financial statements and accompanying footnotes has been retroactively adjusted to reflect the decreased number of shares resulting from this action.

Prior to the Reverse Share Split, the Bank's total authorized share capital consisted of (i) 20 billion common shares of par value BM\$0.01, (ii) 6 billion non-voting ordinary shares of par value BM\$0.01; (iii) 110,200,001 preference shares of par value US\$0.01 and (iv) 50 million preference shares of par value £0.01.

#### **Dividends Declared**

During the six months ended June 30, 2019, the Bank paid cash dividends of \$0.88 (June 30, 2018: \$0.76) for each common share as of the related record dates.

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 BMA's letter of no objection for all dividends declared during the periods presented.

### **Regulatory Capital**

Effective January 1, 2016, the Bank's regulatory capital is determined in accordance with current Basel III guidelines as issued by the BMA. Basel III adopts Common Equity Tier 1 ("CET1") as the predominant form of regulatory capital with the CET1 ratio as a new metric. Basel III also adopts the new Leverage Ratio regime, which is calculated by dividing Tier 1 capital by an exposure measure. The Leverage Ratio Exposure Measure consists of total assets (excluding items deducted from Tier 1 capital) and certain off-balance sheet items converted into credit exposure equivalents as well as adjustments for derivatives to reflect credit risk and other risks. Prior to January 1, 2016, the Bank's regulatory capital was determined in accordance with Basel II guidelines as issued by the BMA.

The Bank is fully compliant with all regulatory capital requirements and maintains capital ratios in excess of regulatory minimums as at June 30, 2019 and December 31, 2018. The following table sets forth the Bank's capital adequacy in accordance with the Basel III framework:

	June 30, 2019		December 3	1, 2018
	Actual	Regulatory minimum	Actual	Regulatory minimum
Capital				
CET 1 capital	849,564	N/A	846,043	N/A
Tier 1 capital	849,564	N/A	846,043	N/A
Tier 2 capital	111,650	N/A	121,521	N/A
Total capital	961,214	N/A	967,564	N/A
Risk Weighted Assets	4,233,332	N/A	4,321,354	N/A
Leverage Ratio Exposure Measure	11,575,989	N/A	11,139,677	N/A
Capital Ratios (%)				
CET 1 capital	20.1%	10.0%	19.6%	9.4%
Tier 1 capital	20.1%	11.5%	19.6%	10.9%
Total capital	22.7%	16.3%	22.4%	15.6%
Leverage ratio	7.3%	5.0%	7.6%	5.0%

(In thousands of US dollars, unless otherwise stated)

#### Note 22: Business combinations

### **Deutsche Bank's Global Trust Solutions Acquisition**

On March 29, 2018, the Bank concluded the acquisition of Deutsche Bank's Global Trust Solutions ("GTS") business, excluding its US operations, for net cash payments of \$24.7 million (composed of an initial cash payment of \$30.2 million followed by a refund of \$5.5 million on May 29, 2018). The refund was received based upon the movement in the number of clients in the GTS portfolio between the time the acquisition was agreed upon and the conclusion of the acquisition, together with an adjustment based upon the net asset values of the companies transferred. Butterfield has taken over the ongoing management and administration of the GTS portfolio, comprising approximately 1,000 trust structures for some 900 private clients. Butterfield has also offered positions to all employees who are fully dedicated to GTS in the Cayman Islands, Guernsey, Switzerland, Singapore and Mauritius. The acquisition was undertaken to enhance the Bank's market presence in the global trust service market.

The Bank incurred transaction expenses related to this acquisition in the amount of \$3.8 million, of which \$1.9 million were expensed during the year ended December 31, 2018 (including \$1.0 million of legal and professional fees) and \$1.9 million were expensed during the year ended December 31, 2017 (including \$1.6 million of legal and professional fees).

For the year ended December 31, 2018, the amount of revenues and net deficit relating to the acquired GTS operations that were not inextricably merged into the Bank's operations were \$6.5 million and \$2.9 million respectively.

The assets acquired consist mainly of: customer relationships intangible assets, goodwill and accounts receivable. The liabilities assumed consist mainly of deferred revenues and accounts payable. Goodwill is made up of expected cash flows to be derived from new business and expected synergies resulting from leveraging existing support services and infrastructure within the Bank. The goodwill arising from the acquisition was allocated to reportable segments as per Note 9 in the Bank's audited financial statements for the year ended December 31, 2018.

	As at March 29, 2018
Total consideration transferred	24,680
Assets acquired	
Cash due from banks	3,958
Intangible assets (estimated useful life of 15 years)	16,932
Other assets	4,548
Total assets acquired	25,438
Liabilities acquired (included in Other liabilities on the balance sheet)	4,626
Excess purchase price (Goodwill)	3,868

Disclosure of the unaudited pro forma financial information to present a summary of the combined results of the Bank and GTS acquisition is impracticable for the year ended December 31, 2018. The disclosure is impracticable as the Bank does not have access to the complete historical revenue and expense data as it relates to GTS for the period preceding the acquisition.

## **Asset Acquisition**

On February 15, 2018, the Bank announced that it had entered into an agreement to acquire Deutsche Bank's banking and custody business in the Cayman Islands, Guernsey and Jersey. During the year ended December 31, 2018, the Bank began to onboard certain customer deposits relating to the acquisition and this activity was completed in the first half of 2019.

### ABN AMRO (Channel Islands) Limited

On April 25, 2019, the Bank announced that it entered into a agreement to acquire ABN AMRO (Channel Islands) Limited ("ABN AMRO Channel Islands"), the Channel Islands-based banking subsidiary of ABN AMRO Bank N.V. via one of its subsidiaries, Butterfield Bank (Guernsey) Limited. ABN AMRO Channel Islands offers banking, investment management and custody products to three distinct client groups, including trusts, private clients, and funds. As at December 31, 2018, ABN AMRO Channel Islands had a client base with £2.9 billion in deposits and £3.5 billion in assets under management and custody.

This agreement is part of the Bank's strategy to grow through acquisitions in offshore markets where the Bank already have scale and expertise in order to create an organization with a widened and diversified offering.

On July 15, 2019, the transaction completed and the initial aggregate purchase price of £161 million was paid in cash, subject to certain purchase price adjustments. Over the coming 12 months following the acquisition, it is expected that ABN AMRO Channel Islands' business and employees will be integrated with the existing Butterfield Guernsey operations and operate under the Butterfield name. Management is still in the process of allocating the purchase price to the various assets acquired and liabilities assumed (including intangible assets and goodwill).

(In thousands of US dollars, unless otherwise stated)

#### Note 23: 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 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 to preferential rates. As at June 30, 2019, related party director and executive loan balances were \$30.0 million (December 31, 2018: \$97.2 million). During the six months ended June 30, 2019, new issuance of loans to related parties were \$27.7 million and repayments and change in directorships were \$94.9 million (year ended December 31, 2018: \$77.3 million and \$11.0 million, respectively). All of these loans were considered performing loans as at June 30, 2019 and December 31, 2018. For the six months ended June 30, 2019, the Bank has recognized \$2.2 million (June 30, 2018: \$2.3 million) of loan interest revenue in the consolidated statement of operations relating to directors and executives, companies in which they are principal owners and/or members of the board and trusts in which they are involved.

Certain directors and executives of the Bank, companies in which they are principal owners, and trusts in which they are involved, have deposits with the Bank. As at June 30, 2019, related party director and executive deposit balances were \$17.3 million (December 31, 2018; \$17.2 million).

Certain affiliates of the Bank have loans and deposits with the Bank. The loans were made and the deposits are maintained in the ordinary course of business on normal commercial terms. At June 30, 2019, affiliates had loan balances of \$10.0 million (December 31, 2018: \$10.2 million) and deposit balances of \$0.6 million (December 31, 2018: \$0.4 million). For the six months ended June 30, 2019, the Bank has recognized \$0.9 million (June 30, 2018: \$1.0 million) of non-interest expenses and \$0.3 million (June 30, 2018: \$0.3 million) of loan interest revenue in the consolidated statement of operations relating to affiliates which the Bank holds investments in.

#### **Financial Transactions With Related Parties**

The Bank holds seed investments in several Butterfield mutual funds, which are managed by a wholly-owned subsidiary of the Bank. As at June 30, 2019, these investments have a fair value of \$6.9 million with an unrealized gain of \$1.9 million (December 31, 2018: \$6.2 million and \$1.2 million, respectively) and were included in trading investments at their fair value. As at June 30, 2019, several Butterfield mutual funds which are managed by a wholly owned subsidiary of the Bank, had loan balances of \$1.4 million (December 31, 2018: \$1.8 million) and deposit balances of \$25.9 million (December 31, 2018: \$36.7 million). During the six months ended June 30, 2019, the Bank earned \$5.2 million (June 30, 2018: \$4.6 million) in asset management revenue from funds managed by a wholly-owned subsidiary of the Bank. During the six months ended June 30, 2019, the Bank earned \$0.7 million (June 30, 2018: \$0.6 million) in custody and other administration services revenue from funds managed by a wholly-owned subsidiary of the Bank and directors and executives, companies in which they are principal owners and/or members of the board and trusts in which they are involved. During the six months ended June 30, 2019, the Bank earned \$0.5 million (June 30, 2018: \$0.5 million) in other income from other related parties.

### Note 24: Subsequent events

On July 23, 2019, the Board of Directors declared an interim dividend of \$0.44 per common share to be paid on August 16, 2019 to shareholders of record on August 5, 2019.

The ABN AMRO (Channel Islands) Limited acquisition originally announced on April 25, 2019 closed on July 15, 2019 and the initial aggregate purchase price of £161 million in cash was paid, subject to certain purchase price adjustments. Please see Note 22: Business combinations for further details.