UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

(Mark	One)			
×	QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF	THE SECURITIES EX	CHANGE ACT OF 1	934
		iod ended June 30, 2022 OR	2	
	TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF	THE SECURITIES EX	CHANGE ACT OF 1	934
	For the transition period from Commission file	n to number 001-07436		
	HSBC 1	USA Inc.		
	(Exact name of registrant	as specified in its char	rter)	
	Maryland		13-27648	367
	(State of incorporation)	((I.R.S. Employer Ide	ntification No.)
	452 Fifth Avenue, New York, New York		10018	
	(Address of principal executive offices)		(Zip Cod	le)
	Registrant's telephone number, i	• .	,	
	Securities registered pursua	nt to Section 12(b) of the	e Act:	
	Title of Each Class	Trading Symbol(s)	Name of Each Ex	change on Which Registered
	000,000 Zero Coupon Callable Accreting Notes due January 15, 2043	HBA/43	New Yo	ork Stock Exchange
\$50,0	000,000 Zero Coupon Callable Accreting Notes due January 29, 2043	HBA/43A	New Yo	ork Stock Exchange
during	ndicate by check mark whether the registrant (1) has filed all reports required the preceding 12 months (or for such shorter period that the registrant was tements for the past 90 days. Yes ☑ No □	•	· /	Č
	ndicate by check mark whether the registrant has submitted electronicallytion S-T during the preceding 12 months (or for such shorter period that			
emergi	ndicate by check mark whether the registrant is a large accelerated filer, ng growth company. See the definitions of "large accelerated filer," "accelerated filer," accelerated filer, "accelerated filer, "accelerate			
Larg	te accelerated filer \square Accelerated filer \square Non-accelerated	filer 🗷 Smaller rep	orting company	Emerging growth company \Box
	f an emerging growth company, indicate by check mark if the registrant sed financial accounting standards provided pursuant to Section 13(a) of		e extended transition p	eriod for complying with any new
	ndicate by check mark whether the registrant is a shell company (as defined as of July 29, 2022, there were 714 shares of the registrant's common sto		. ,	

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PART I

Item 1. Financial Statements

CONSOLIDATED STATEMENT OF INCOME (UNAUDITED)

Interest income: Interest in		Tł	Three Months Ended June 30,			Si		hs Ended e 30,	
Interest income:		- 2	2022	2	2021	20)22	2	2021
Loans \$ 437 \$ 441 \$ 813 \$ 892 Securities 169 160 310 337 Trading securities 55 54 118 102 Short-term investments 110 17 137 33 Other 12 4 17 13 Total interest income 783 676 1,395 1,377 Interest expense: 315 69 193 150 Short-term borrowings 21 4 26 9 Short-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 232 Net interest income 89 78 157 160 Other 6 2 10 4 Total interest expense 252 253 1,009 1,50 Wet interest income after provision for credit losses 463 752 292 1,510 </th <th></th> <th></th> <th></th> <th></th> <th>(in mi</th> <th>illions)</th> <th>)</th> <th></th> <th></th>					(in mi	illions))		
Securities 169 160 310 337 Trading securities 55 54 118 102 Short-term investments 110 17 137 33 Other 12 4 17 13 Total interest income 783 676 1,395 1,377 Interest expense: 135 69 193 150 Short-term borrowings 21 4 26 9 Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 299 1,510 Other revenues: 532 523 1,009 1,054 Total come after provision for credit losses 34	Interest income:								
Trading securities 55 54 118 102 Short-term investments 110 17 137 33 Other 12 4 17 13 Total interest income 783 676 1,395 1,377 Interest expense: 135 69 193 150 Short-term borrowings 21 4 26 9 Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 292 1,510 Other revenues: 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160	Loans	\$	437	\$	441	\$	813	\$	892
Short-term investments 110 17 137 33 Other 12 4 17 137 Total interest income 783 676 1,395 1,397 Interest expense: Interest expense: Deposits 135 69 193 150 Short-term borrowings 21 4 26 9 Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 532 523 1,009 1,054 Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: 12 13 27 23 Credit card fees, net 12 13 27 23 Trust and investment management fees 34 26 60 <t< td=""><td>Securities</td><td></td><td></td><td></td><td>160</td><td></td><td>310</td><td></td><td>337</td></t<>	Securities				160		310		337
Other 12 4 17 13 Total interest income 783 676 1,395 1,377 Interest expense: Deposits 135 69 193 150 Short-term borrowings 21 4 26 9 Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: 2 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 333 336 Trading revenue 9 18 29 47 Servic	Trading securities		55		54		118		102
Total interest income 783 676 1,395 1,377 Interest expense: 135 69 193 150 Short-term borrowings 21 4 26 9 Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 <td< td=""><td>Short-term investments</td><td></td><td>110</td><td></td><td>17</td><td></td><td>137</td><td></td><td>33</td></td<>	Short-term investments		110		17		137		33
Deposits	Other				4		17		
Deposits 135 69 193 150 Short-term borrowings 21 4 26 9 Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43	Total interest income		783		676	1	,395		1,377
Short-term borrowings 21 4 26 9 Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 112 13 27 23 Tredit card fees, net 12 13 24 60 60 55	Interest expense:								
Long-term debt 89 78 157 160 Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: 2 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net - - <td>Deposits</td> <td></td> <td>135</td> <td></td> <td>69</td> <td></td> <td>193</td> <td></td> <td>150</td>	Deposits		135		69		193		150
Other 6 2 10 4 Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: 2 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on sale of branch disposal group, net - - - 111 - Other income (loss) (39) (3) (82) 68 Total other revenues 343 304 829 688	Short-term borrowings		21		4		26		9
Total interest expense 251 153 386 323 Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: Total for evenues 34 26 60 55 Credit card fees, net 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net - - 111 - Other income (loss)	Long-term debt		89		78		157		160
Net interest income 532 523 1,009 1,054 Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: Credit card fees, net 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 3 138 182 292 358 <	Other		6		2		10		4
Provision for credit losses 69 (229) 80 (456) Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: Total card fees, net 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 341 392 837 759 Support services from HSBC	Total interest expense		251		153		386		323
Net interest income after provision for credit losses 463 752 929 1,510 Other revenues: Credit card fees, net 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 343 304 829 688 Support services from HSBC affiliates 138 182 292 358 <tr< td=""><td>Net interest income</td><td></td><td>532</td><td></td><td>523</td><td>1</td><td>,009</td><td></td><td>1,054</td></tr<>	Net interest income		532		523	1	,009		1,054
Other revenues: Credit card fees, net 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 343 304 829 688 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expe	Provision for credit losses		69		(229)		80		(456)
Other revenues: 12 13 27 23 Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 343 304 829 688 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379	Net interest income after provision for credit losses		463		752		929		1,510
Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 343 304 829 688 Operating expenses: 348 182 292 358 Support services from HSBC affiliates 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110									
Trust and investment management fees 34 26 60 55 Other fees and commissions 160 171 338 336 Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 343 304 829 688 Operating expenses: 348 182 292 358 Support services from HSBC affiliates 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110	Credit card fees, net		12		13		27		23
Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense			34		26		60		55
Trading revenue 61 2 133 43 Other securities gains, net 9 18 29 47 Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense	Other fees and commissions		160		171		338		336
Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182			61		2		133		43
Servicing and other fees from HSBC affiliates 87 70 188 153 Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182	Other securities gains, net		9		18		29		47
Gain on instruments designated at fair value and related derivatives 19 7 25 25 Gain on sale of branch disposal group, net — — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182			87		70		188		153
Gain on sale of branch disposal group, net — — — 111 — Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182	· · · · · · · · · · · · · · · · · · ·		19		7		25		25
Other income (loss) (39) (3) (82) 6 Total other revenues 343 304 829 688 Operating expenses: 8 829 888 Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182			_				111		
Total other revenues 343 304 829 688 Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182			(39)		(3)		(82)		6
Operating expenses: Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182	· /		/	_					688
Salaries and employee benefits 138 182 292 358 Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182				_					
Support services from HSBC affiliates 419 392 837 759 Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182			138		182		292		358
Occupancy expense, net 13 118 30 148 Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182	1 7		419		392		837		759
Other expenses 123 110 220 219 Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182	• •		13		118		30		148
Total operating expenses 693 802 1,379 1,484 Income before income tax 113 254 379 714 Income tax expense 23 61 88 182							220		
Income before income tax 113 254 379 714 Income tax expense 23 61 88 182	1		693		802		.379		1.484
Income tax expense						_			
<u></u>					_				182
	1		90	\$	193	\$	291	\$	532

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

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME (LOSS) (UNAUDITED)

	Tł	Three Months Ended June 30,				Six Months E June 30,			
	2	2022	2021 2022			2	2021		
			(in millions)						
Net income	\$	90	\$	193	\$	291	\$	532	
Net change in unrealized gains (losses), net of tax:									
Investment securities		(574)		53	(1,617)		(578)	
Fair value option liabilities attributable to our own credit spread		51		10		80			
Derivatives designated as cash flow hedges		(62)		(9)		(214)		(21)	
Pension and post-retirement benefit plans		_		1		_		1	
Total other comprehensive income (loss)		(585)		55	(1,751)		(598)	
Comprehensive income (loss)	\$	(495)	\$	248	\$(1,460)	\$	(66)	

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

CONSOLIDATED BALANCE SHEET (UNAUDITED)

	June 30, 2022	De	cember 31, 2021
	(in millio	ns, exce data)	ept share
Assets ⁽¹⁾		uataj	
Cash and due from banks	\$ 98	1 \$	954
Interest bearing deposits with banks	42,53	8	47,400
Federal funds sold and securities purchased under agreements to resell	4,94	1	10,514
Trading assets (includes \$1.6 billion and \$1.7 billion pledged to creditors at June 30, 2022 and December 31, 2021, respectively)	18,70	8	24,043
Securities available-for-sale (includes amortized cost of \$33.3 billion and \$35.4 billion at June 30, 2022 and December 31, 2021, respectively, an allowance for credit losses of \$2 million and \$1 million at June 30, 2022 and December 31, 2021, respectively, and \$1.0 billion and \$2.4 billion pledged to creditors at June 30, 2022 and December 31, 2021, respectively)	31,06	2	35,298
Securities held-to-maturity, net of allowance for credit losses of nil and \$1 million at June 30, 2022 and December 31, 2021, respectively (fair value of \$4.5 billion and \$5.4 billion at June 30, 2022 and December 31, 2021, respectively)		6	5,203
Loans	61,79	8	55,864
Less – allowance for credit losses	53	4	447
Loans, net	61,26	4	55,417
Loans held for sale (includes \$194 million and \$48 million designated under fair value option at June 30, 2022 and December 31, 2021, respectively, and \$2,441 million related to branch disposal group held for sale at December 31, 2021)	48	9	4,217
Properties and equipment, net	. 3	8	40
Goodwill	45	8	458
Other branch related assets held for sale	. <u> </u>	_	249
Other assets, net of allowance for credit losses of \$1 million at both June 30, 2022 and December 31, 2021	6,08	7	5,439
Total assets	\$ 171,23	2 \$	189,232
Liabilities ⁽¹⁾			
Debt:			
Domestic deposits:			
Noninterest bearing	\$ 34,13	2 \$	40,333
Interest bearing (includes \$2.0 billion and \$2.7 billion designated under fair value option at June 30, 2022 and December 31, 2021, respectively)	84,73	2	89,122
Foreign deposits - interest bearing	8,39	9	4,827
Deposits held for sale	_	_	8,750
Total deposits	127,26	3	143,032
Short-term borrowings	5,89	8	6,338
Long-term debt (includes \$7.1 billion and \$8.9 billion designated under fair value option at June 30, 2022 and December 31, 2021, respectively)	i	6	17,236
Total debt	149,18	7 —	166,606
Trading liabilities	3,76	6	3,023
Other branch related liabilities held for sale.		_	152
Interest, taxes and other liabilities	2,74	2	2,411
Total liabilities	155,69	_	172,192
Equity			. , .
Preferred stock (no par value; 40,999,000 shares authorized; 1,265 shares issued and outstanding at both June 30, 2022 and December 31, 2021)	1,26	5	1,265
Common equity:			
Common stock (\$5 par value; 150,000,000 shares authorized; 714 shares issued and outstanding at both June 30, 2022 and December 31, 2021)	_	_	_
Additional paid-in capital	14,73	7	14,742
Retained earnings	1,46		1,212
Accumulated other comprehensive loss	(1,93		(179)
Total common equity			15,775
Total equity	,- :		17,040
Total liabilities and equity			
zona maonines ana equay	\$ 171,23	4 \$	189,232

⁽¹⁾ The following table summarizes assets and liabilities related to our consolidated variable interest entities ("VIEs") at June 30, 2022 and December 31, 2021. Assets and liabilities exclude intercompany balances that eliminate in consolidation. See Note 17, "Variable Interest Entities," for additional information.

Assets \$ Loans \$ Other assets \$ Total assets \$	(in m	
Other assets Total assets	(illions)
Other assets Total assets		
Total assats	118	\$ 46
Total assets §	46	55
	164	\$ 101
Liabilities —		
Interest, taxes and other liabilities \$	28	\$ 9
Total liabilities §	28	\$ 9

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

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY (UNAUDITED) Three Months Ended June 30,	2022	2021
- Indee Months Ended value 50,		Illions)
Preferred stock	(
Balance at beginning and end of period	\$ 1,265	\$ 1,265
Common stock	,	, ,
Balance at beginning and end of period	<u> </u>	
Additional paid-in capital		
Balance at beginning of period	14,740	15,743
Employee benefit plans		´ —
Balance at end of period		15,743
Retained earnings		
Balance at beginning of period	1,413	940
Net income		193
Cash dividends declared on preferred stock		(38)
Balance at end of period		1,095
Accumulated other comprehensive income (loss)		-,,,,
Balance at beginning of period	(1,345)	26
Other comprehensive income (loss), net of tax		55
Balance at end of period		81
Total common equity		16,919
Total equity		
Six Months Ended June 30,	2022	2021
		Illions)
Preferred stock	`	,
Balance at beginning and end of period	\$ 1,265	\$ 1,265
Common stock		
Balance at beginning and end of period	<u> </u>	_
Additional paid-in capital		
Balance at beginning of period	14,742	15,746
Employee benefit plans	(5)	(3)
Balance at end of period		15,743
Retained earnings		
Balance at beginning of period	1,212	601
Net income	• • • •	532
Cash dividends declared on preferred stock	(38)	(38)
Balance at end of period	4.45	1,095
Accumulated other comprehensive income (loss)		
Balance at beginning of period	(179)	679
Other comprehensive loss, net of tax		(598)
Balance at end of period		81
Total common equity		16,919
		, -

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

CONSOLIDATED STATEMENT OF CASH FLOWS (UNAUDITED)

Six Months Ended June 30,	2022	2021
	(in m	illions)
Cash flows from operating activities		
Net income	\$ 291	\$ 532
Adjustments to reconcile net income to net cash provided by (used in) operating activities:		
Depreciation and amortization		161
Gain on sale of branch disposal group, net	, ,	_
Provision for credit losses		(456)
Net realized gains on securities available-for-sale	` '	(47)
Net change in other assets and liabilities	(795)	1,219
Net change in loans held for sale:		
Originations and purchases of loans held for sale		(1,407)
Sales and collections of loans held for sale	1,052	1,398
Net change in trading assets and liabilities	6,078	(3,516)
Lower of amortized cost or fair value adjustments on loans held for sale	6	5
Gain on instruments designated at fair value and related derivatives	(25)	(25)
Net cash provided by (used in) operating activities	5,534	(2,136)
Cash flows from investing activities		
Net change in federal funds sold and securities purchased under agreements to resell.	5,573	25,243
Securities available-for-sale:		•
Purchases of securities available-for-sale	(3,510)	(9,173)
Proceeds from sales of securities available-for-sale	, , ,	6,170
Proceeds from paydowns and maturities of securities available-for-sale	,	7,865
Securities held-to-maturity:	,	,
Purchases of securities held-to-maturity	(475)	_
Proceeds from paydowns and maturities of securities held-to-maturity		2,210
Change in loans:	-,	-,
Originations, net of collections	(5,476)	2,718
Loans sold to third parties	* * * *	1,091
Net cash used for acquisitions of properties and equipment.		-
Net outflow related to the sale of branch disposal group	` '	
Other, net	(, ,	
Net cash provided by (used in) investing activities	(-)	
Cash flows from financing activities	(2,324)	30,204
Net change in deposits	(8,580)	2,221
Debt:	(0,500)	2,221
Net change in short-term borrowings	(440)	(1,146)
Issuance of long-term debt		5,317
Repayment of long-term debt		
Other decreases in capital surplus	` ' '	())
<u> </u>	()	
Dividends paid		(38)
Net cash provided by (used in) financing activities		197
Net change in cash and due from banks and interest bearing deposits with banks	, , ,	
Cash and due from banks and interest bearing deposits with banks at beginning of period ⁽¹⁾		15,655
Cash and due from banks and interest bearing deposits with banks at end of period ⁽¹⁾	\$ 43,519	\$ 49,920

⁽¹⁾ Included \$58 million of cash which was reported in other branch related assets held for sale on the consolidated balance sheet at December 31, 2021. The accompanying notes are an integral part of the consolidated financial statements.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)

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1. Organization and Presentation

HSBC USA Inc. ("HSBC USA"), incorporated under the laws of Maryland, is a New York State based bank holding company and a wholly-owned subsidiary of HSBC North America Holdings Inc. ("HSBC North America"), which is an indirect wholly-owned subsidiary of HSBC Holdings plc ("HSBC" and, together with its subsidiaries, "HSBC Group"). The accompanying unaudited interim consolidated financial statements of HSBC USA and its subsidiaries (collectively "HUSI") have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and with the instructions to Form 10-Q and Article 10 of Regulation S-X, as well as in accordance with predominant practices within the banking industry. Accordingly, they do not include all of the information and footnotes required by generally accepted accounting principles for complete financial statements. In the opinion of management, all normal and recurring adjustments considered necessary for a fair statement of financial position, results of operations and cash flows for the interim periods have been made. HUSI may also be referred to in these notes to the consolidated financial statements as "we," "us" or "our." These unaudited interim consolidated financial statements should be read in conjunction with our Annual Report on Form 10-K for the year ended December 31, 2021 (the "2021 Form 10-K"). Certain reclassifications have been made to prior period amounts to conform to the current period presentation.

The preparation of financial statements in conformity with U.S. GAAP requires the use of estimates and assumptions that affect reported amounts and disclosures. Actual results could differ from those estimates. Interim results should not be considered indicative of results in future periods.

2. Strategic Initiatives

As discussed in our 2021 Form 10-K, we previously announced a strategic plan to restructure our operations ("Restructuring Plan") in alignment with HSBC's global strategy, to refocus our wholesale operations to better serve our international corporate clients and restructure our retail operations to better meet the needs of globally mobile and affluent clients. Our Restructuring Plan also includes streamlining our functional and operations support model by removing duplication and reducing the size of our balance sheet to better align with the scope and scale of the U.S. opportunity. As discussed further in Note 3, "Branch Assets and Liabilities Held for Sale," during the second quarter of 2021, we made the decision to exit our mass market retail banking business, including the sale or closure of certain branches, and transferred certain assets and liabilities to held for sale. We expect to incur pre-tax charges in connection with this Restructuring Plan over the three-year period of 2020-2022 of approximately \$780-\$860 million (\$590-\$650 million after-tax). The following table presents a summary of the total pre-tax charges we currently expect to incur by reportable segment:

_	with Restru	es in Connection cturing Plan
	Minimum	Maximum
	(in mi	Illions)
Wealth and Personal Banking	160	\$ 180
Commercial Banking	16	18
Markets and Securities Services	80	82
Global Banking and Markets Other	14	16
Corporate Center ⁽¹⁾	510	564
Total	780	\$ 860

⁽¹⁾ Includes restructuring charges primarily related to lease impairment and other related costs, support service project costs and severance costs associated with certain centralized activities and functions.

During the first half of 2022, we continued to progress our Restructuring Plan, including simplification of our support service functions and investing in systems infrastructure and new technologies. In February 2022, we also completed the sale of the branch disposal group associated with the exit of our mass market retail banking business. During the three and six months ended June 30, 2022, we recorded pre-tax charges in connection with our Restructuring Plan totaling \$41 million and \$72 million, respectively, compared with pre-tax charges totaling \$118 million and \$136 million during the three and six months ended June 30, 2021, respectively. To date, we have recorded a total of \$641 million of pre-tax charges in connection with our Restructuring Plan. We remain committed to our multi-year strategic plan to re-profile our business.

The following table summarizes the changes in the liability associated with our Restructuring Plan during the three and six months ended June 30, 2022 and 2021:

	 Severance and Other Employee Costs ⁽¹⁾ Lease Termination and Associated Costs ⁽²⁾ Other ⁽³⁾			Total		
			(in milli	ons)		
Three Months Ended June 30, 2022						
Restructuring liability at beginning of period	\$ 2	\$	38	\$		\$ 40
Restructuring costs accrued during the period	4		_		11	15
Restructuring costs paid during the period	(4)		(4)		(11)	(19)
Restructuring liability at end of period	\$ 2	\$	34	\$		\$ 36
Three Months Ended June 30, 2021						
Restructuring liability at beginning of period	\$ 2	\$	22	\$	_	\$ 24
Restructuring costs accrued during the period	5		30		4	39
Restructuring costs paid during the period	(1)		(6)		(4)	(11)
Restructuring liability at end of period	\$ 6	\$	46	\$	_	\$ 52

			Lease Termination and Associated Costs ⁽²⁾			ther ⁽³⁾		Total
Six Months Ended June 30, 2022				(in mill	ions)			
Restructuring liability at beginning of period	\$	10	S	46	\$		S	56
Restructuring costs accrued during the period	Ψ	4	Ψ	_	Ψ	18	Ψ	22
Restructuring costs paid during the period		(12)		(12)		(18)		(42)
Restructuring liability at end of period	\$	2	\$	34	\$		\$	36
Six Months Ended June 30, 2021						_		
Restructuring liability at beginning of period	\$	10	\$	23	\$		\$	33
Restructuring costs accrued during the period		5		30		6		41
Restructuring costs paid during the period		(9)		(7)		(6)		(22)
Restructuring liability at end of period	\$	6	\$	46	\$		\$	52

⁽¹⁾ Severance and other employee costs are included in salaries and employee benefits in the consolidated statement of income. The majority of these costs were reported in the Wealth and Personal Banking business segment. Not included in these costs are allocated severance costs from HSBC Technology & Services ("HTSU") discussed further below.

In addition to the restructuring costs reflected in the rollforward table above, during the three and six months ended June 30, 2022, we reversed \$4 million and \$3 million, respectively, of lease right-of-use ("ROU") asset and leasehold improvement asset impairment charges associated with certain office space that we determined we would exit.

During the second quarter of 2021, as part of our decision to exit our mass market retail banking business, we determined that we would exit approximately 30 branches. As a result, we recorded impairment charges during the second quarter of 2021 to write-off the assets associated with these branches, including \$29 million of lease ROU assets, \$18 million of leasehold improvement assets and \$3 million of equipment assets. During the second quarter of 2021, we also recorded impairment charges of \$5 million to write-down the lease ROU assets and leasehold improvement assets associated with closed branches and certain office space that we determined we would exit. Lease impairment charges are reflected in occupancy expense, net in the consolidated statement of income and were reported in the Wealth and Personal Banking and the Corporate Center business segments.

During the three and six months ended June 30, 2021, we recorded \$6 million and \$10 million, respectively, of trading losses associated with the exit of certain derivative contracts as part of our Restructuring Plan. These losses are included in trading revenue in the consolidated statement of income and were reported in the Markets and Securities Services business segment.

Our Restructuring Plan also resulted in costs being allocated to us from HTSU, primarily support service project costs and severance costs, which are reflected in support services from HSBC affiliates in the consolidated statement of income. During the three and six months ended June 30, 2022, we recorded \$30 million and \$53 million, respectively, of allocated costs from HTSU related to restructuring activities compared with \$18 million and \$30 million of allocated costs during the three and six months ended June 30, 2021, respectively. These costs were reported in the Corporate Center business segment.

HSBC Group Restructuring Separate from the charges related to our Restructuring Plan as detailed above, during the three and six months ended June 30, 2022, we also recorded \$25 million and \$42 million, respectively, of allocated costs from other HSBC affiliates related to the HSBC Group's restructuring activities, primarily support service project costs and severance costs, compared with \$11 million and \$18 million of allocated costs during the three and six months ended June 30, 2021, respectively. These costs are reflected in support services from HSBC affiliates in the consolidated statement of income and were reported in the Corporate Center business segment.

Primarily includes real estate taxes, service charges and decommissioning costs. Lease termination and associated costs are included in occupancy expense, net in the consolidated statement of income and were reported in the Wealth and Personal Banking and the Corporate Center business segments.

⁽³⁾ Primarily includes professional fees and other staff costs, which are included in other expenses in the consolidated statement of income.

3. Branch Assets and Liabilities Held for Sale

In May 2021, as part of our Restructuring Plan we announced that we would take further actions to strategically reposition our Wealth and Personal Banking business to focus on the banking and wealth management needs of globally-connected affluent and high net worth clients through our Premier, Jade and Private Banking propositions and exit our mass market retail banking business, including our Personal and Advance propositions as well as retail business banking, and rebrand certain of our retail branches into international wealth centers to serve our Premier and Jade customers. In conjunction with the execution of this strategy, we had entered into definitive sale agreements with third parties to sell 90 of our retail branches along with substantially all residential mortgage, unsecured and retail business banking loans and deposits in our branch network not associated with our Premier, Jade and Private Banking customers. As a result of entering into these sale agreements, assets and liabilities related to the agreements were transferred to held for sale during the second quarter of 2021. Income before tax of this disposal group was not material during the six months ended June 30, 2022 and 2021.

In February 2022, we completed the sale of the branch disposal group and recognized a gain on sale of approximately \$111 million, net of transaction costs. Included in the sale was approximately \$2,148 million of loans, \$45 million of properties and equipment, \$16 million of cash, \$6,919 million of deposits, \$145 million of lease liabilities and \$6 million of other liabilities. Certain assets under management associated with our mass market retail banking operations which are managed by an affiliate were also transferred to one of the buyers. In addition, we have rebranded 22 of our retail branches into international wealth centers and the remaining branches not sold or rebranded have been closed.

Mass market retail banking loans not included in the transaction described above were also transferred to held for sale during the second quarter of 2021 as we did not intend to hold these loans for the foreseeable future. Certain of these loans have since been sold. See Note 8, "Loans Held for Sale," for additional details.

Releases of the allowance for credit losses on the loans transferred to held for sale discussed above resulted in a reduction to the provision for credit losses of approximately \$101 million (\$100 million of which related to consumer loans) during the second quarter of 2021. See Note 7, "Allowance for Credit Losses," for additional details.

4. Trading Assets and Liabilities

Trading assets and liabilities consisted of the following:

	June 30, 2022	December 31, 2021
	(in n	nillions)
Trading assets:		
U.S. Treasury	\$ 1,964	\$ 2,337
U.S. Government sponsored enterprises	398	432
Foreign bonds	1,606	167
Equity securities	9,065	15,795
Precious metals	3,372	3,907
Derivatives, net	2,303	1,405
Total trading assets	\$ 18,708	\$ 24,043
Trading liabilities:		
Securities sold, not yet purchased	\$ 907	\$ 1,103
Payables for precious metals	340	46
Derivatives, net	2,519	1,874
Total trading liabilities	\$ 3,766	\$ 3,023

At June 30, 2022 and December 31, 2021, the fair value of derivatives included in trading assets is net of \$3,410 million and \$1,419 million, respectively, relating to amounts recognized for the obligation to return cash collateral received under master netting agreements with derivative counterparties.

At June 30, 2022 and December 31, 2021, the fair value of derivatives included in trading liabilities is net of \$1,671 million and \$1,296 million, respectively, relating to amounts recognized for the right to reclaim cash collateral paid under master netting agreements with derivative counterparties.

See Note 10, "Derivative Financial Instruments," for further information on our trading derivatives and related collateral.

Dividend income on equity securities held for trading, which is recorded in interest income in the consolidated statement of income, totaled \$42 million and \$90 million during the three and six months ended June 30, 2022, respectively, compared with \$38 million and \$64 million during the three and six months ended June 30, 2021, respectively. Trading security positions are held as economic hedges of derivative products issued to our clients.

5. Securities

Our securities available-for-sale and securities held-to-maturity portfolios consisted of the following:

Company Comp	June 30, 2022	A	mortized Cost	Allowance for Credit Losses		for Credit		G	ealized ains	Unrealized Losses			air lue
U.S. Treasury \$ 8,791 \$ — \$ 46 \$ (201) \$ 8,636 U.S. Government sponsored enterprises: Mortgage-backed securities 6,825 — — — (747) 6,078 Collateralized mortgage obligations 1,630 — — — (227) 1,403 Direct agency obligations 1,830 — — 4 (45) 1,789 U.S. Government agency issued or guaranteed: Mortgage-backed securities 8,053 — — 8 (641) 7,420 Collateralized mortgage obligations 3,394 — — — (376) 3,018 Direct agency obligations 248 — — 3 (4) 247 Asset-backed securities collateralized by: — — — — — — (11) 16 Other 106 (2) — — — (77) 97 Foreign debt securities (1) 2,364 — — — 3 (9) 2,358 Total available-for-sale securities \$ 33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: Mortgage-backed securities \$ 903 \$ — \$ — \$ \$ (26) \$ 877 Collateralized mortgage obligations 521<	Securities available-for-sale:					(in m	illions)						
Mortgage-backed securities	U.S. Treasury	\$	8.791	\$		\$	46	s (20)	n	\$ 8	636		
Mortgage-backed securities 6,825 — — (747) 6,078 Collateralized mortgage obligations 1,630 — — (227) 1,403 Direct agency obligations 1,830 — 4 (45) 1,789 U.S. Government agency issued or guaranteed: Mortgage-backed securities 8,053 — 8 (641) 7,420 Collateralized mortgage obligations 3,394 — — (376) 3,018 Direct agency obligations 248 — 3 (4) 247 Asset-backed securities collateralized by: — — — (1) 16 Other 106 (2) — (7) 97 Foreign debt securities(1) 2,364 — 3 (9) 2,358 Total available-for-sale securities \$33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: — \$ 5 \$ 6 \$ 877 Collateralized mort		Ψ	0,771	Ψ		Ψ		ψ (2 0)	.,	Ψ 0	,000		
Collateralized mortgage obligations 1,630 — (227) 1,403 Direct agency obligations 1,830 — 4 (45) 1,789 U.S. Government agency issued or guaranteed: Mortgage-backed securities 8,053 — 8 (641) 7,420 Collateralized mortgage obligations 3,394 — — (376) 3,018 Direct agency obligations 248 — 3 (4) 247 Asset-backed securities collateralized by: Home equity 17 — — (1) 16 Other 106 (2) — (7) 97 Foreign debt securities: \$ 33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: Mortgage-backed securities \$ 903 \$ — \$ — \$ (26) \$ 877 Collateralized mortgage obligations 521 — 10 (11) 520 U.S. Government agency issued or guaranteed: <td rows<="" td=""><td>•</td><td></td><td>6.825</td><td></td><td></td><td></td><td>_</td><td>(74)</td><td>7)</td><td>6</td><td>.078</td></td>	<td>•</td> <td></td> <td>6.825</td> <td></td> <td></td> <td></td> <td>_</td> <td>(74)</td> <td>7)</td> <td>6</td> <td>.078</td>	•		6.825				_	(74)	7)	6	.078	
Direct agency obligations 1,830 4 (45) 1,789 U.S. Government agency issued or guaranteed: Mortgage-backed securities 8,053 - 8 (641) 7,420 Collateralized mortgage obligations 3,394 - - (376) 3,018 Direct agency obligations 248 - 3 (4) 247 Asset-backed securities collateralized by: 17 - - (1) 16 Other 106 (2) - (7) 97 Foreign debt securities 2,364 - 3 (9) 2,358 Total available-for-sale securities \$ 33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: Securities held-to-maturity: Securities held-to-maturity: U.S. Government agency issued or guaranteed: Securities held-to-maturity: Securities held-to-maturity							_	`	_				
U.S. Government agency issued or guaranteed: Mortgage-backed securities 8,053 -			,		_		4	,	_				
Mortgage-backed securities 8,053 — 8 (641) 7,420 Collateralized mortgage obligations 3,394 — — (376) 3,018 Direct agency obligations 248 — 3 (4) 247 Asset-backed securities collateralized by: — — — (1) 16 Other — 106 (2) — (7) 97 Foreign debt securities(1) — 2,364 — 3 (9) 2,358 Total available-for-sale securities — — — — 8 (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity:<			1,000				-	(-)	-	,		
Collateralized mortgage obligations 3,394 — — (376) 3,018 Direct agency obligations 248 — 3 (4) 247 Asset-backed securities collateralized by: — — — (1) 16 Other — 106 (2) — (7) 97 Foreign debt securities(1) 2,364 — 3 (9) 2,358 Total available-for-sale securities \$ 33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: Securities held-to-maturity: S	Mortgage-backed securities		8.053				8	(64	D.	7	.420		
Direct agency obligations 248 — 3 (4) 247 Asset-backed securities collateralized by: Home equity 17 — — (1) 16 Other 106 (2) — (7) 97 Foreign debt securities ⁽¹⁾ 2,364 — 3 (9) 2,358 Total available-for-sale securities \$ 33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: Mortgage-backed securities \$ 903 \$ — \$ — \$ (26) \$ 877 Collateralized mortgage obligations 521 — 10 (11) 520 U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 — — (51) 886 Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — — 8 Asset-backed securities collateralized by resi	Collateralized mortgage obligations		,				_	`	_		_		
Asset-backed securities collateralized by: Home equity			,				3	`	_				
Other 106 (2) — (7) 97 Foreign debt securities (1) 2,364 — 3 (9) 2,358 Total available-for-sale securities \$ 33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises:	Asset-backed securities collateralized by:							`	,				
Other 106 (2) — (7) 97 Foreign debt securities (1) 2,364 — 3 (9) 2,358 Total available-for-sale securities \$33,258 (2) \$64 \$(2,258) \$31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: Mortgage-backed securities \$903 \$- \$- \$(26) \$877 Collateralized mortgage obligations 521 — 10 (11) 520 U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 — — (51) 886 Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — — 8 Asset-backed securities collateralized by residential mortgages 1 — — — 1	Home equity		17		_			C	()		16		
Foreign debt securities (1) 2,364 — 3 (9) 2,358 Total available-for-sale securities \$ 33,258 \$ (2) \$ 64 \$ (2,258) \$ 31,062 Securities held-to-maturity: U.S. Government sponsored enterprises: Mortgage-backed securities \$ 903 \$ — \$ — \$ (26) \$ 877 Collateralized mortgage obligations 521 — 10 (11) 520 U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 — — (51) 886 Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — — 8 Asset-backed securities collateralized by residential mortgages 1 — — — 1	Other		106		(2)			`	_		97		
Total available-for-sale securities Securities held-to-maturity: U.S. Government sponsored enterprises: Mortgage-backed securities Sovernment agency issued or guaranteed: Mortgage-backed securities Mortgage-backed securities Sovernment agency issued or guaranteed: Mortgage-backed securities Mortgage-backed securities Sovernment agency issued or guaranteed: Asset-backed securities Nortgage-backed securities Sovernment agency issued or guaranteed: Mortgage-backed securities Sovernment agency issued or guaranteed: Asset-backed securities Asset-backed securities Sovernment agency issued or guaranteed: Asset-backed securities Asset-backed securities Sovernment agency issued or guaranteed: Asset-backed securities Asset-backed securities Sovernment agency issued or guaranteed: Asset-backed	Foreign debt securities ⁽¹⁾				_		3	`	_	2			
Securities held-to-maturity: U.S. Government sponsored enterprises: Mortgage-backed securities \$903 \$ - \$ - \$ (26) \$ 877 Collateralized mortgage obligations 521 - 10 (11) 520 U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 - (51) 886 Collateralized mortgage obligations 2,296 - 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 8 Asset-backed securities collateralized by residential mortgages 1 1	Total available-for-sale securities	··		<u> </u>	(2)	<u>\$</u>	64		<u> </u>				
Mortgage-backed securities \$903 \$ — \$ — \$ (26) \$ 877 Collateralized mortgage obligations 521 — 10 (11) 520 U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 — (51) 886 Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — 8 Asset-backed securities collateralized by residential mortgages — 1 — — — 1		_		÷		_		-	= =	-			
Collateralized mortgage obligations 521 — 10 (11) 520 U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 — (51) 886 Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — 8 Asset-backed securities collateralized by residential mortgages 1 — — 1	U.S. Government sponsored enterprises:												
Collateralized mortgage obligations 521 — 10 (11) 520 U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 — (51) 886 Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — 8 Asset-backed securities collateralized by residential mortgages 1 — — 1	Mortgage-backed securities	·· \$	903	\$	_	\$		\$ (2)	6)	\$	877		
U.S. Government agency issued or guaranteed: Mortgage-backed securities 937 — (51) 886 Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — 8 Asset-backed securities collateralized by residential mortgages 1 — — 1	Collateralized mortgage obligations				_		10	`	_				
Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — 8 Asset-backed securities collateralized by residential mortgages — 1 — — — 1	U.S. Government agency issued or guaranteed:								,				
Collateralized mortgage obligations 2,296 — 2 (78) 2,220 Obligations of U.S. states and political subdivisions 8 — — 8 Asset-backed securities collateralized by residential mortgages — 1 — — — 1	Mortgage-backed securities		937				_	(5	1)		886		
Obligations of U.S. states and political subdivisions 8 8 Asset-backed securities collateralized by residential mortgages 1 1	Collateralized mortgage obligations		2,296				2	`	_	2	,220		
mortgages	Obligations of U.S. states and political subdivisions		8				_	_	_		8		
Total held-to-maturity securities \$ 4,666 \$ — \$ 12 \$ (166) \$ 4,512		• •	1					_	_		1		
	Total held-to-maturity securities	·· \$	4,666	\$		\$	12	\$ (16	<u>)</u>	\$ 4	,512		

December 31, 2021	A	mortized Cost	for	owance Credit osses		realized Gains	Fair Value	
Connition and lable for sale.					(in r	nillions)		
Securities available-for-sale:	_		_		_			
U.S. Treasury	···· \$	9,490	\$	_	\$	144	\$ (72)	\$ 9,562
U.S. Government sponsored enterprises:								
Mortgage-backed securities		7,365				114	(115)	7,364
Collateralized mortgage obligations		1,787				8	(48)	1,747
Direct agency obligations		1,775				16	(4)	1,787
U.S. Government agency issued or guaranteed:								
Mortgage-backed securities		8,489		_		7	(66)	8,430
Collateralized mortgage obligations		3,730		_		7	(49)	3,688
Direct agency obligations		282				6		288
Asset-backed securities collateralized by:								
Home equity		20		(1)				19
Other		107		_		_	(6)	101
Foreign debt securities ⁽¹⁾		2,311				3	(2)	2,312
Total available-for-sale securities	···· \$	35,356	\$	(1)	\$	305		\$ 35,298
Securities held-to-maturity:	_							
U.S. Government sponsored enterprises:								
Mortgage-backed securities	···· \$	684	\$		\$	21	\$ —	\$ 705
Collateralized mortgage obligations		492	-	_	*	26	_	518
U.S. Government agency issued or guaranteed:		.,_				_0		010
Mortgage-backed securities		1,104				24	_	1,128
Collateralized mortgage obligations		2,915				85	(1)	2,999
Obligations of U.S. states and political subdivisions		2,713		_			(1)	2,777
Asset-backed securities collateralized by residential		0						0
mortgages		1		(1)		1	_	1
Total held-to-maturity securities	···· \$	5,204	\$		\$	157	\$ (1)	\$ 5,359

⁽¹⁾ Foreign debt securities represent public sector entity, bank or corporate debt.

Securities Available-for-Sale The following provides additional information about our portfolio of securities available-for-sale:

Allowance for credit losses On a quarterly basis, we perform an assessment to determine whether there have been any events or economic circumstances to indicate that a debt security available-for-sale in an unrealized loss position has suffered impairment due to credit factors. A debt security available-for-sale is considered impaired if its fair value is less than its amortized cost basis at the reporting date. If impaired, we assess whether the impairment is due to credit factors.

If we intend to sell the debt security or if it is more-likely-than-not that we will be required to sell the debt security before the recovery of its amortized cost basis, the impairment is recognized and the unrealized loss is recorded as a direct write-down of the security's amortized cost basis with an offsetting entry to earnings. If we do not intend to sell the debt security or believe we will not be required to sell the debt security before the recovery of its amortized cost basis, the impairment is assessed to determine if a credit loss component exists. We use a discounted cash flow method to determine the credit loss component. In the event a credit loss exists, an allowance for credit losses is recorded in earnings for the credit loss component of the impairment while the remaining portion of the impairment attributable to factors other than credit loss is recognized, net of tax, in other comprehensive income (loss). The amount of impairment recognized due to credit factors is limited to the excess of the amortized cost basis over the fair value of the security available-for-sale.

In determining whether a credit loss component exists, we consider a series of factors which include:

The extent to which the fair value is less than the amortized cost basis;

- The credit protection features embedded within the instrument, which includes but is not limited to credit subordination positions, payment structure, overcollateralization, protective triggers and financial guarantees provided by third parties;
- Changes in the near term prospects of the issuer or the underlying collateral of a security such as changes in default rates, loss severities given default and significant changes in prepayment assumptions;
- The level of excess cash flows generated from the underlying collateral supporting the principal and interest payments
 of the debt securities; and
- Any adverse change to the credit conditions of the issuer, the monoline insurer or the security such as credit downgrades by external rating agencies or changes to internal ratings.

At June 30, 2022 and December 31, 2021, the allowance for credit losses on securities available-for-sale was \$2 million and \$1 million, respectively.

Securities in an unrealized loss position for which no allowance for credit losses has been recognized The following table summarizes gross unrealized losses and related fair values for securities available-for-sale by major security type at June 30, 2022 and December 31, 2021 classified as to the length of time the losses have existed:

	(One	Year or Le	ess		Greater Than One Year							
	Number of Securities		Gross nrealized Losses	Aggregate Fair Value of Investment		Number of Securities	Gross Unrealized Losses		Fa	ggregate ir Value nvestment			
					(dollars are	in millions)							
At June 30, 2022													
U.S. Treasury	28	\$	(105)	\$	4,456	15	\$	(96)	\$	1,338			
U.S. Government sponsored enterprises	252		(460)		5,338	55		(559)		3,306			
U.S. Government agency issued or guaranteed	119		(842)		8,718	23		(179)		1,407			
Asset-backed securities	3		(1)		16	3		(7)		97			
Foreign debt securities	4		(4)		356	2		(5)		107			
Securities available-for-sale	406	\$	(1,412)	\$	18,884	98	\$	(846)	\$	6,255			
At December 31, 2021													
U.S. Treasury	11	\$	(28)	\$	1,784	9	\$	(44)	\$	856			
U.S. Government sponsored enterprises	63		(155)		6,224	14		(12)		354			
U.S. Government agency issued or guaranteed	59		(91)		8,972	15		(24)		769			
Asset-backed securities						3		(6)		101			
Foreign debt securities	8		(2)		1,188			_					
Securities available-for-sale	141	\$	(276)	\$	18,168	41	\$	(86)	\$	2,080			
	·									•			

Gross unrealized losses increased as compared with December 31, 2021 due primarily to increasing yields on U.S. Government agency mortgage-backed, U.S. Government sponsored mortgage-backed and U.S. Treasury securities.

Although the fair value of a particular security may be below its amortized cost, it does not necessarily result in a credit loss and hence an allowance for credit losses. The decline in fair value may be caused by, among other things, the illiquidity of the market. We have reviewed the securities in an unrealized loss position for which no allowance for credit losses has been recognized in accordance with our accounting policies, discussed further above. At June 30, 2022, we do not consider any of these securities to be impaired due to credit factors as we expect to recover their amortized cost basis and we neither intend nor expect to be required to sell these securities prior to recovery, even if that equates to holding them until their individual maturities. However, impairments due to credit factors may occur in future periods if the credit quality of the securities deteriorates.

Securities Held-to-Maturity The following provides additional information about our portfolio of securities held-to-maturity:

Allowance for credit losses We exclude from our calculation of lifetime expected credit losses ("ECL") securities for which we expect that non-payment of the amortized cost basis will be zero ("Zero Expected Credit Loss Exception"). Due to the composition of our portfolio of securities held-to-maturity, substantially all of our portfolio qualifies for the Zero Expected Credit Loss Exception and has been excluded from our lifetime ECL calculation. At June 30, 2022 and December 31, 2021, the allowance for credit losses on securities held-to-maturity was nil and \$1 million, respectively.

At June 30, 2022 and December 31, 2021, none of our securities held-to-maturity were past due or in nonaccrual status.

Credit risk profile Securities are assigned a credit rating based on the estimated probability of default. The credit ratings are used as a credit quality indicator to monitor our securities held-to-maturity portfolio. We utilize Standard and Poor's ("S&P") as the primary source of our credit ratings. If S&P ratings are not available, ratings by Moody's and Fitch are used in that order. Investment grade includes securities with credit ratings of at least BBB- or above. At June 30, 2022 and December 31, 2021, all of our securities held-to-maturity were investment grade.

Other securities gains, net The following table summarizes realized gains and losses on investment securities transactions attributable to available-for-sale securities:

	Thi	ree Moi Jun	nths l e 30,	Ended	Si	ix Mont Jun	hs Ended e 30,		
	2	022	2	2021	2022		2	2021	
				(in mi	illions)			
Gross realized gains	\$	10	\$	39	\$	30	\$	88	
Gross realized losses		(1)		(21)		(1)		(41)	
Net realized gains	\$	9	\$	18	\$	29	\$	47	

Contractual Maturities and Yields The following table summarizes the amortized cost and fair values of securities available-for-sale and securities held-to-maturity at June 30, 2022 by contractual maturity. Expected maturities differ from contractual maturities because borrowers have the right to prepay obligations without prepayment penalties in certain cases. The table below also reflects the distribution of maturities of debt securities held at June 30, 2022, together with the approximate yield of the portfolio. The yields shown are calculated by dividing annualized interest income, including the accretion of discounts and the amortization of premiums, by the amortized cost of securities outstanding at June 30, 2022.

		With One Y		After (But Wi Five Y	ithin		After l But Wi Ten Y	ithin		After ' Year	
	A	mount	Yield	Amount	Yield	A	mount	Yield	I	Amount	Yield
				((dollars are	in n	nillions)				
Available-for-sale:											
U.S. Treasury	\$	248	2.00 %	\$ 3,815	1.48 %	\$	1,532	1.42 %	\$	3,196	2.49 %
U.S. Government sponsored enterprises		149	1.42	1,772	1.71		1,491	2.19		6,873	1.69
U.S. Government agency issued or guaranteed		71	.26	21	1.01		3	3.96		11,600	2.25
Asset-backed securities			_	_	_		106	4.14		17	1.44
Foreign debt securities		1,615	.31	749	.77					_	
Total amortized cost	\$	2,083	.59 %	\$ 6,357	1.46 %	\$	3,132	1.88 %	\$	21,686	2.11 %
Total fair value	\$	2,080		\$ 6,244		\$	3,022		\$	19,716	
Held-to-maturity:											
U.S. Government sponsored enterprises	\$	17	2.81 %	\$ 97	2.39 %	\$	609	2.83 %	\$	701	3.37 %
U.S. Government agency issued or guaranteed		_	_				8	6.18		3,225	2.54
Obligations of U.S. states and political subdivisions		4	3.24	2	3.57		2	4.36		_	_
Asset-backed securities				_	_			_		1	7.68
Total amortized cost	\$	21	2.89 %	\$ 99	2.43 %	\$	619	2.88 %	\$	3,927	2.69 %
Total fair value	\$	21		\$ 97		\$	603		\$	3,791	

Equity Securities Equity securities that are not classified as trading and are included in other assets consisted of the following:

	June 30, 2022	Dec	ember 31, 2021
	(in ı	nillions	i)
Equity securities carried at fair value	\$ 276	\$	282
Equity securities without readily determinable fair values	15		16

On a quarterly basis, we perform an assessment to determine whether any equity securities without readily determinable fair values are impaired. In the event an equity security is deemed impaired, the security is written down to fair value with

impairment recorded in earnings. During the first quarter of 2022, we determined that certain equity securities without readily determinable fair values were impaired and, as a result, we recorded an impairment loss of \$3 million as a component of other income (loss) in the consolidated statement of income compared with recording an impairment loss of \$3 million during the second quarter of 2021.

Also included in other assets were investments in Federal Home Loan Bank ("FHLB") stock and Federal Reserve Bank stock of \$107 million and \$528 million, respectively, at June 30, 2022 and \$110 million and \$558 million, respectively, at December 31, 2021.

6. Loans

Loans consisted of the following:		
	June 30, 2022	December 31, 2021
	(in m	nillions)
Commercial loans:		
Real estate, including construction	\$ 8,791	\$ 8,234
Business and corporate banking	16,108	13,958
Global banking ⁽¹⁾	12,963	11,109
Other commercial:	,	,
Affiliates ⁽²⁾	3,457	2,793
Other	3,376	3,702
Total other commercial	6,833	6,495
Total commercial	44,695	39,796
Consumer loans:		
Residential mortgages ⁽³⁾	16,475	15,469
Home equity mortgages ⁽³⁾	351	325
Credit cards	204	204
Other consumer	73	70
Total consumer	17,103	16,068
Total loans	\$ 61,798	\$ 55,864

⁽¹⁾ Represents large multinational firms including globally focused U.S. corporate and financial institutions, U.S. dollar lending to multinational banking clients managed by HSBC on a global basis and complex large business clients supported by Global Banking and Markets relationship managers.

Net deferred origination costs totaled \$24 million and \$40 million at June 30, 2022 and December 31, 2021, respectively. At June 30, 2022 and December 31, 2021, we had a net unamortized premium (discount) on our loans of \$(7) million and \$5 million, respectively.

⁽²⁾ See Note 14, "Related Party Transactions," for additional information regarding loans to HSBC affiliates.

⁽³⁾ Consumer mortgage loans at June 30, 2022 include certain loans that were transferred from held for sale to held for investment during the second quarter of 2022. See Note 8, "Loans Held for Sale," for additional information.

Aging Analysis of Past Due Loans The following table summarizes the past due status of our loans at June 30, 2022 and December 31, 2021. The aging of past due amounts is determined based on the contractual delinquency status of payments under the loan. An account is generally considered to be contractually delinquent when payments have not been made in accordance with the loan terms. Delinquency status is affected by customer account management policies and practices such as re-age, which results in the re-setting of the contractual delinquency status to current.

		Past Due To			Total Past Due				
	30 -	89 Days	90-	+ Days	30 Days or More	109			tal Loans
A. T. 20 2022					(in millions)				
At June 30, 2022									
Commercial loans:									
Real estate, including construction	-	33	\$	76	\$ 109	\$	-)	\$	8,791
Business and corporate banking		60		16	76		16,032		16,108
Global banking		_		3	3		12,960		12,963
Other commercial		351			351		6,482		6,833
Total commercial		444		95	539		44,156		44,695
Consumer loans:									
Residential mortgages ⁽²⁾		151		86	237		16,238		16,475
Home equity mortgages ⁽²⁾		2		3	5		346		351
Credit cards		1		1	2		202		204
Other consumer				_	_		73		73
Total consumer		154		90	244		16,859		17,103
Total loans	····· \$	598	\$	185	\$ 783	\$	61,015	\$	61,798
At December 31, 2021									
Commercial loans:									
Real estate, including construction	\$	38	\$		\$ 38	\$	8,196	\$	8,234
Business and corporate banking		112		17	129		13,829		13,958
Global banking				27	27		11,082		11,109
Other commercial		47			47		6,448		6,495
Total commercial		197		44	241		39,555		39,796
Consumer loans:									
Residential mortgages		138		63	201		15,268		15,469
Home equity mortgages		2		1	3		322		325
Credit cards		5		2	7		197		204
Other consumer		1			1		69		70
Total consumer		146		66	212		15,856		16,068
Total loans	\$	343	\$	110	\$ 453	\$	55,411	\$	55,864

⁽¹⁾ Loans less than 30 days past due are presented as current.

⁽²⁾ Consumer mortgage past due loans at June 30, 2022 include certain loans that were transferred from held for sale to held for investment during the second quarter of 2022, which collectively included \$50 million of consumer mortgage loans which were past due 30 days or more at the time of transfer. See Note 8, "Loans Held for Sale," for additional information.

Nonperforming Loans Nonperforming loans, including nonaccrual loans and accruing loans contractually 90 days or more past due, consisted of the following:

				or More	Lo	Credit osses
At June 30, 2022			(in m	illions)		
Commercial:						
Real estate, including construction	\$	94	\$		\$	18
Business and corporate banking		122		1		64
Global banking		92				70
Total commercial		308		1		152
Consumer:						
Residential mortgages ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾		198				64
Home equity mortgages ⁽¹⁾⁽²⁾⁽⁴⁾		9				5
Credit cards				1		
Total consumer		207		1		69
Total nonperforming loans	··· \$	515	\$	2	\$	221
At December 31, 2021						
Commercial:						
Real estate, including construction	\$	140	\$		\$	20
Business and corporate banking		134		1		69
Global banking		105				63
Total commercial		379		1		152
Consumer:						
Residential mortgages ⁽¹⁾⁽²⁾⁽³⁾		229				55
Home equity mortgages ⁽¹⁾⁽²⁾		9				4
Credit cards				2		
Total consumer		238		2		59
Total nonperforming loans	\$	617	\$	3	\$	211

⁽¹⁾ At June 30, 2022 and December 31, 2021, nonaccrual consumer mortgage loans include \$95 million and \$86 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less cost to sell.

Interest income that was recorded on nonaccrual loans and included in interest income totaled \$2 million and \$5 million during the three and six months ended June 30, 2022, respectively, compared with \$10 million and \$25 million during the three and six months ended June 30, 2021, respectively.

Collateral-Dependent Loans Loans for which the repayment is expected to be provided substantially through the operation or sale of the collateral and the borrower is experiencing financial difficulty are considered to be collateral-dependent loans. Collateral can have a significant financial effect in mitigating our exposure to credit risk.

Collateral-dependent residential mortgage loans are carried at the lower of amortized cost or fair value of the collateral less costs to sell, with any excess in the carrying amount of the loan generally charged off at the time foreclosure is initiated or when settlement is reached with the borrower, but not to exceed the end of the month in which the account becomes six months contractually delinquent. Collateral values are based on broker price opinions or appraisals which are updated at least every 180 days less estimated costs to sell. During the quarterly period between updates, real estate price trends are reviewed on a

Nonaccrual consumer mortgage loans include all loans which are 90 or more days contractually delinquent as well as loans discharged under Chapter 7 bankruptcy and not re-affirmed and second lien loans where the first lien loan that we own or service is 90 or more days contractually delinquent.

⁽³⁾ Nonaccrual consumer mortgage loans for all periods does not include guaranteed loans purchased from the Government National Mortgage Association. Repayment of these loans is predominantly insured by the Federal Housing Administration and as such, these loans have different risk characteristics from the rest of our consumer loan portfolio.

⁽⁴⁾ Consumer mortgage nonperforming loans at June 30, 2022 include certain loans that were transferred from held for sale to held for investment during the second quarter of 2022, which collectively included \$63 million of consumer mortgage nonperforming loans at the time of transfer. See Note 8, "Loans Held for Sale," for additional information.

geographic basis and incorporated as necessary. At June 30, 2022 and December 31, 2021, we had collateral-dependent residential mortgage loans totaling \$238 million and \$214 million, respectively.

For collateral-dependent commercial loans, the allowance for expected credit losses is individually assessed based on the fair value of the collateral. Various types of collateral are used, including real estate, inventory, equipment, accounts receivable, securities and cash, among others. For commercial real estate loans, collateral values are generally based on appraisals which are updated based on management judgment under the specific circumstances on a case-by-case basis. In situations where an appraisal is not used, borrower-specific factors such as operating results, cash flows and debt service ratios are reviewed along with relevant market data of comparable properties in order to create a 10-year cash flow model to be discounted at appropriate rates to present value. The collateral value for securities is based on their quoted market prices or broker quotes. The collateral value for other financial assets is generally based on appraisals or is estimated using a discounted cash flow analysis. Commercial loan balances are charged off at the time all or a portion of the balance is deemed uncollectible. At June 30, 2022 and December 31, 2021, we had collateral-dependent commercial loans totaling \$246 million and \$347 million, respectively.

Troubled debt restructurings ("TDR Loans") TDR Loans represent loans for which the original contractual terms have been modified to provide for terms that are less than what we would be willing to accept for new loans with comparable risk because of deterioration in the borrower's financial condition.

Modifications for consumer or commercial loans may include changes to one or more terms of the loan, including, but not limited to, a change in interest rate, extension of the amortization period, reduction in payment amount and partial forgiveness or deferment of principal, accrued interest or other loan covenants. A substantial amount of our modifications involve interest rate reductions on consumer loans, which lower the amount of interest income we are contractually entitled to receive in future periods. Through lowering the interest rate and other loan term changes, we believe we are able to increase the amount of cash flow that will ultimately be collected from the loan, given the borrower's financial condition. Once a consumer loan is classified as a TDR Loan, it continues to be reported as such until it is paid off or charged-off. For commercial loans, if subsequent performance is in accordance with the new terms and the loan is upgraded, it is possible the loan will no longer be reported as a TDR Loan at the earliest one year after the restructuring. During the three and six months ended June 30, 2022 and 2021, there were no commercial loans that met these criteria and were removed from TDR Loan classification.

The following table summarizes our TDR Loans at June 30, 2022 and December 31, 2021:

	June 30, 2022	December 31, 2021
	(in m	nillions)
Commercial loans:		
Business and corporate banking	\$ 112	\$ 38
Global banking	3	25
Total commercial ⁽¹⁾	115	63
Consumer loans:		
Residential mortgages ⁽²⁾⁽³⁾	137	125
Home equity mortgages ⁽²⁾⁽³⁾	13	9
Credit cards	2	3
Total consumer	152	137
Total TDR Loans ⁽⁴⁾	\$ 267	\$ 200

⁽¹⁾ Additional commitments to lend to commercial borrowers whose loans have been modified in TDR Loans totaled \$13 million at both June 30, 2022 and December 31, 2021

⁽²⁾ At June 30, 2022 and December 31, 2021, the carrying value of consumer mortgage TDR Loans includes \$102 million and \$104 million, respectively, of loans that are recorded at the lower of amortized cost or fair value of the collateral less cost to sell.

⁽³⁾ Consumer mortgage TDR Loans at June 30, 2022 include certain loans that were transferred from held for sale to held for investment during the second quarter of 2022, which collectively included \$24 million of consumer mortgage TDR Loans at the time of transfer. See Note 8, "Loans Held for Sale," for additional information.

⁽⁴⁾ At June 30, 2022 and December 31, 2021, the carrying value of TDR Loans includes \$67 million and \$115 million, respectively, of loans which are classified as nonaccrual.

The following table presents information about loans which were modified during the three and six months ended June 30, 2022 and 2021 and as a result of this action became classified as TDR Loans:

	Th	ree Mo Jun	nths E e 30,	Ended	S	ix Mont Jun	hs Ene 30,	ded
	2	022	2021		2022		20	021
		(in millions)						
Commercial loans:								
Business and corporate banking	\$	99	\$		\$	101	\$	26
Global banking		_				_		15
Total commercial		99				101		41
Consumer loans:								
Residential mortgages		5		16		12		32
Home equity mortgages		2		1		2		1
Credit cards		1				3		1
Total consumer		8		17		17		34
Total	\$	107	\$	17	\$	118	\$	75

The weighted-average contractual rate reduction for consumer loans which became classified as TDR Loans during the three and six months ended June 30, 2022 was 0.14 percent and 0.24 percent, respectively, compared with 2.09 percent and 2.07 percent during the three and six months ended June 30, 2021, respectively. The weighted-average contractual rate reduction for commercial loans was not significant in either the number of loans or rate.

The following table presents consumer loans which were classified as TDR Loans during the previous 12 months which subsequently became 60 days or greater contractually delinquent during the three and six months ended June 30, 2022 and 2021:

	Thr	ee Mor Jun		Ended	Si		ths End ie 30,	led
	20	22	2	021	20	022	202	21
				(in mi	llions)		
Consumer loans:								
Residential mortgages	\$		\$		\$		\$	3
Total consumer	\$	_	\$		\$	_	\$	3

During the three and six months ended June 30, 2022 and 2021, there were no commercial TDR Loans which were classified as TDR Loans during the previous 12 months which subsequently became 90 days or greater contractually delinquent.

Commercial Loan Credit Quality Indicators The following credit quality indicators are utilized to monitor our commercial loan portfolio:

Criticized loans Criticized loan classifications presented in the table below are determined by the assignment of various criticized facility grades based on the risk rating standards of our regulator. The following facility grades are deemed to be criticized:

Special Mention - generally includes loans that are protected by collateral and/or the credit worthiness of the customer, but are potentially weak based upon economic or market circumstances which, if not checked or corrected, could weaken our credit position at some future date.

Substandard - includes loans that are inadequately protected by the underlying collateral and/or general credit worthiness of the customer. These loans present a distinct possibility that we will sustain some loss if the deficiencies are not corrected.

Doubtful - includes loans that have all the weaknesses exhibited by substandard loans, with the added characteristic that the weaknesses make collection or liquidation in full of the recorded loan highly improbable. However, although the possibility of loss is extremely high, certain factors exist which may strengthen the credit at some future date, and therefore the decision to charge-off the loan is deferred. Loans graded as doubtful are required to be placed in nonaccrual status.

The following table summarizes our criticized commercial loans, including a disaggregation of the loans by year of origination as of June 30, 2022 and December 31, 2021:

	20)22	2	2021	2	020	2	019	2	2018]	Prior	volving Loans	Con to	volving Loans nverted Term Loans	J	otal at un. 30, 2022
Delegate includios controlicos									(in	million	s)						
Real estate, including construction:																	
Special mention	4	107	\$	812	\$	59	\$	233	\$	_	\$	229	\$ _	\$	3	\$	1,443
Substandard		_		_		36		314		768		1,025	20		11		2,174
Doubtful			_					76				11	 				87
Total real estate, including construction		107		812		95		623		768		1,265	20		14		3,704
Business and corporate banking:																	
Special mention		34		43		64		_		29		142	230		12		554
Substandard		_		_		9		13		13		157	538		17		747
Doubtful		_		_		17		_		15		1	26		_		59
Total business and corporate banking		34		43		90		13		57		300	794		29		1,360
Global banking:																	
Special mention		_		_		_		_		_		123	146		_		269
Substandard		_		_		224		17		_		3	254		_		498
Doubtful		_		_		_		_		_		_	23		_		23
Total global banking						224		17				126	 423				790
Other commercial:																	
Substandard		_		_		_		_		_		3	9		_		12
Total other commercial												3	 9			_	12
Total commercial:																	
Special mention		141		855		123		233		29		494	376		15		2,266
Substandard		_		_		269		344		781		1,188	821		28		3,431
Doubtful		_		_		17		76		15		12	49		_		169
Total commercial	\$	141	\$	855	\$	409	\$	653	\$	825	\$	1,694	\$ 1,246	\$	43	\$	5,866

	2021	2020	2(019	2	018	2	2017	1	Prior	olving oans	Lo Conv to T	olving ans verted erm ans	Total at Dec. 31, 2021
								million						
Real estate, including construction:							(-,					
Special mention	s —	s —	\$	350	\$	487	\$	90	\$	259	\$ _	\$	_	\$ 1,186
Substandard	_	1		272		263		308		461	20		11	1,336
Doubtful	_	_		80		2		_		53	_		_	135
Total real estate, including construction	_	1		702		752		398		773	20		11	2,657
Business and corporate banking:														
Special mention	_	1		91		60		26		274	173		_	625
Substandard	_	18		36		9		3		226	424		8	724
Doubtful	_	_		_		20		_		28	16		_	64
Total business and corporate banking	_	19		127		89		29		528	613		8	1,413
Global banking:														
Special mention	8	_		_		_		_		8	47		_	63
Substandard	_	_		_		_		_		54	232		_	286
Doubtful	_	_		_		_		_		_	31		_	31
Total global banking	8									62	310			380
Other commercial:														
Special mention	_	_		_		_		_		7	_		_	7
Substandard	_	_		_		_		_		_	40		_	40
Total other commercial	_	_								7	40			47
Total commercial:														
Special mention	8	1		441		547		116		548	220		_	1,881
Substandard	_	19		308		272		311		741	716		19	2,386
Doubtful	_	_		80		22		_		81	47		_	230
Total commercial	\$ 8	\$ 20	\$	829	\$	841	\$	427	\$	1,370	\$ 983	\$	19	\$ 4,497

Nonperforming The following table summarizes the nonperforming status of our commercial loan portfolio, including a disaggregation of the loans by year of origination as of June 30, 2022 and December 31, 2021:

	2022	2021	2020	2019	2018	Prior	Revolving Loans	Revolving Loans Converted to Term Loans	Total at Jun. 30, 2022
					(in million	ıs)			
Real estate, including construction:									
Performing loans	\$ 1,126	\$ 1,085	\$ 623	\$ 2,103	\$ 1,912	\$ 1,789	\$ 44	\$ 15	\$ 8,697
Nonaccrual loans	_	_	_	76	2	16	_	_	94
Total real estate, including construction	1,126	1,085	623	2,179	1,914	1,805	44	15	8,791
Business and corporate banking:									
Performing loans	484	1,270	557	657	214	4,742	7,810	251	15,985
Nonaccrual loans	_	_	17	_	19	47	39	_	122
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	1	_	1
Total business and corporate banking	484	1,270	574	657	233	4,789	7,850	251	16,108
Global banking:									
Performing loans	2,390	553	566	178	114	4,526	4,544	_	12,871
Nonaccrual loans	_	_	_	_	_	35	57	_	92
Total global banking	2,390	553	566	178	114	4,561	4,601		12,963
Other commercial:									
Performing loans	68	158	597	415	178	1,047	4,370	_	6,833
Total other commercial	68	158	597	415	178	1,047	4,370		6,833
Total commercial:									
Performing loans	4,068	3,066	2,343	3,353	2,418	12,104	16,768	266	44,386
Nonaccrual loans	_	_	17	76	21	98	96	_	308
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	1	_	1
Total commercial	\$ 4,068	\$ 3,066	\$ 2,360	\$ 3,429	\$ 2,439	\$ 12,202	\$ 16,865	\$ 266	\$ 44,695

	2021	2020	2019	2018	2017	Prior	Revolving Loans	Revolving Loans Converted to Term Loans	Total at Dec. 31, 2021
S. 1					(in million	is)			
Real estate, including construction:									
Performing loans	Ψ , υ,	\$ 651	\$ 2,436	\$ 2,076	\$ 593	\$ 1,307	\$ 46	\$ 16	\$ 8,094
Nonaccrual loans		2	80	40		18			140
Total real estate, including construction	969	653	2,516	2,116	593	1,325	46	16	8,234
Business and corporate banking:									
Performing loans	1,630	709	594	190	187	4,756	5,540	217	13,823
Nonaccrual loans	_	4	14	30	51	1	34	_	134
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	1	_	1
Total business and corporate banking	1,630	713	608	220	238	4,757	5,575	217	13,958
Global banking:									
Performing loans	547	540	203	80	243	4,580	4,811	_	11,004
Nonaccrual loans	_	_	_	_	_	40	65	_	105
Total global banking	547	540	203	80	243	4,620	4,876		11,109
Other commercial:									
Performing loans	589	552	451	174	110	1,045	3,574	_	6,495
Total other commercial	589	552	451	174	110	1,045	3,574		6,495
Total commercial:									
Performing loans	3,735	2,452	3,684	2,520	1,133	11,688	13,971	233	39,416
Nonaccrual loans	_	6	94	70	51	59	99	_	379
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	1	_	1
Total commercial	\$ 3,735	\$ 2,458	\$ 3,778	\$ 2,590	\$ 1,184	\$ 11,747	\$ 14,071	\$ 233	\$ 39,796

Credit risk profile Commercial loans are assigned a credit rating based on the estimated probability of default. Investment grade includes loans with credit ratings of at least BBB- or above or the equivalent based on our internal credit rating system. The following table summarizes the credit risk profile of our commercial loan portfolio, including a disaggregation of the loans by year of origination as of June 30, 2022 and December 31, 2021:

	2022	2021	2020	2019	2018	Prior	Revolving Loans	Revolving Loans Converted to Term Loans	Total at Jun. 30, 2022
					(in million	is)			
Real estate, including construction:									
Investment grade	-	\$ 45	\$ 310	\$ 496	\$ 719	\$ 343	\$ 12	\$ —	\$ 1,998
Non-investment grade	,	1,040	313	1,683	1,195	1,462	32	15	6,793
Total real estate, including construction	1,126	1,085	623	2,179	1,914	1,805	44	15	8,791
Business and corporate banking:									
Investment grade		724	302	352	37	2,391	3,849	54	7,972
Non-investment grade		546	272	305	196	2,398	4,001	197	8,136
Total business and corporate banking	484	1,270	574	657	233	4,789	7,850	251	16,108
Global banking:									
Investment grade	2,165	547	340	150	85	3,455	3,968	_	10,710
Non-investment grade	225	6	226	28	29	1,106	633		2,253
Total global banking	2,390	553	566	178	114	4,561	4,601	_	12,963
Other commercial:									
Investment grade	60	105	498	115	172	861	4,210	_	6,021
Non-investment grade	8	53	99	300	6	186	160		812
Total other commercial	68	158	597	415	178	1,047	4,370	_	6,833
Total commercial:									
		1 421	1,450	1,113	1,013	7,050	12,039	54	26,701
Investment grade	2,561	1,421	1,100	, -					
Investment grade Non-investment grade	,	1,645	910	2,316	1,426	5,152	4,826	212	17,994
· ·	1,507			The second second	1,426 \$ 2,439	5,152 \$ 12,202	4,826 \$ 16,865	\$ 266	17,994 \$ 44,695
Non-investment grade	1,507	1,645	910	2,316					
Non-investment grade	1,507 \$ 4,068	1,645 \$ 3,066	910 \$ 2,360	2,316 \$ 3,429	\$ 2,439	\$ 12,202	\$ 16,865	Revolving Loans Converted to Term	\$ 44,695 Total at Dec. 31,
Non-investment grade	1,507 \$ 4,068	1,645 \$ 3,066	910 \$ 2,360	2,316 \$ 3,429	\$ 2,439	\$ 12,202	\$ 16,865	Revolving Loans Converted to Term	\$ 44,695 Total at Dec. 31,
Non-investment grade Total commercial	1,507 \$ 4,068 2021	1,645 \$ 3,066	910 \$ 2,360	2,316 \$ 3,429	\$ 2,439	\$ 12,202	\$ 16,865	Revolving Loans Converted to Term	\$ 44,695 Total at Dec. 31,
Non-investment grade Total commercial Real estate, including construction:	1,507 \$ 4,068 2021	1,645 \$ 3,066	910 \$ 2,360 2019	2,316 \$ 3,429	\$ 2,439 2017 (in million	\$ 12,202 Prior	\$ 16,865 Revolving Loans	Revolving Loans Converted to Term Loans	\$ 44,695 Total at Dec. 31, 2021
Non-investment grade Total commercial Real estate, including construction: Investment grade	1,507 \$ 4,068 2021 \$ 1 968	1,645 \$ 3,066 2020 \$ 361	910 \$ 2,360 2019 \$ 491	2,316 \$ 3,429 2018	\$ 2,439 2017 (in million	\$ 12,202 Prior (s)	\$ 16,865 Revolving Loans	\$ 266 Revolving Loans Converted to Term Loans	\$ 44,695 Total at Dec. 31, 2021
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade	1,507 \$ 4,068 2021 \$ 1 968	1,645 \$ 3,066 2020 \$ 361 292	910 \$ 2,360 2019 \$ 491 2,025	2,316 \$ 3,429 2018 \$ 772 1,344	2017 (in million \$ 57 536	Prior (S) \$ 248	\$ 16,865 Revolving Loans \$ 12 34	\$ 266 Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction	1,507 \$ 4,068 2021 \$ 1 968 969	1,645 \$ 3,066 2020 \$ 361 292	910 \$ 2,360 2019 \$ 491 2,025	2,316 \$ 3,429 2018 \$ 772 1,344	2017 (in million \$ 57 536	Prior (S) \$ 248	\$ 16,865 Revolving Loans \$ 12 34	\$ 266 Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking:	1,507 \$ 4,068 2021 \$ 1 968 969	1,645 \$ 3,066 2020 \$ 361 292 653	910 \$ 2,360 2019 \$ 491 2,025 2,516	2,316 \$ 3,429 2018 \$ 772 1,344 2,116	2017 (in million \$ 57 536 593	Prior (s) \$ 248 1,077 1,325	\$ 16,865 Revolving Loans \$ 12 34 46	\$ 266 Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade	1,507 \$ 4,068 2021 \$ 1 968 969 881	\$ 3,066 2020 \$ 361 292 653 254	\$ 2,360 2019 \$ 491 2,025 2,516 240	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52	\$ 2,439 2017 (in million \$ 57 536 593	Prior (s) \$ 248 1,077 1,325 2,122	\$ 16,865 Revolving Loans \$ 12 34 46 2,498	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Non-investment grade	\$ 4,068 2021 \$ 1 968 969 881 749	\$ 361 292 653 254 459	\$ 2,360 2019 \$ 491 2,025 2,516 240 368	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168	2017 (in million \$ 57 536 593 43 195	Prior \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking	\$ 4,068 2021 \$ 1 968 969 881 749 1,630	\$ 361 292 653 254 459	\$ 2,360 2019 \$ 491 2,025 2,516 240 368	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168	2017 (in million \$ 57 536 593 43 195	Prior \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking:	\$ 1,507 \$ 4,068 2021 \$ 1 968 969 881 749 1,630 530	\$ 361 292 653 254 459 713	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220	\$ 2,439 2017 (in million \$ 57 536 593 43 195 238	Prior (s) \$ 248 1,077 1,325 2,122 2,635 4,757	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade	\$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17	\$ 3,066 2020 \$ 361 292 653 254 459 713 539	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608	\$ 772 1,344 2,116 52 168 220	\$ 2,439 2017 (in million \$ 57 536 593 43 195 238	Prior (s) \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade Non-investment grade Non-investment grade Non-investment grade Non-investment grade	\$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17	\$ 3,066 2020 \$ 361 292 653 254 459 713 539 1	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608 189 14	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220 64 16	\$ 2,439 2017 (in million \$ 57	Prior (s) \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240 636	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707 1,402
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade Non-investment grade Non-investment grade Total global banking: Investment grade Non-investment grade Total global banking	\$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17 547	\$ 3,066 2020 \$ 361 292 653 254 459 713 539 1	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608 189 14	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220 64 16	\$ 2,439 2017 (in million \$ 57	Prior (s) \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240 636	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707 1,402
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade Non-investment grade Non-investment grade Non-investment grade Total global banking Other commercial:	\$ 1,507 \$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17 547	\$ 361 292 653 254 459 713 539 1 540	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608 189 14 203	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220 64 16 80	\$ 2,439 2017 (in million \$ 57 536 593 43 195 238 235 8 243	\$ 12,202 Prior \$ 248 1,077 1,325 2,122 2,635 4,757 3,910 710 4,620	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240 636 4,876	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707 1,402 11,109
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade Non-investment grade Non-investment grade Total global banking Other commercial: Investment grade	\$ 1,507 \$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17 547	\$ 361 292 653 254 459 713 539 1 540	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608 189 14 203	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220 64 16 80	\$ 2,439 2017 (in million \$ 57 536 593 43 195 238 235 8 243	\$ 12,202 Prior \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240 636 4,876 3,527	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707 1,402 11,109 5,428
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade Non-investment grade Total global banking Other commercial: Investment grade Non-investment grade Non-investment grade Non-investment grade Non-investment grade	\$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17 547 120 469	1,645 \$ 3,066 2020 \$ 361 292 653 254 459 713 539 1 540 442 110	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608 189 14 203 153 298	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220 64 16 80 174 —	\$ 2,439 2017 (in million \$ 57	Prior (s) \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240 636 4,876 3,527 47	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707 1,402 11,109 5,428 1,067
Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade Total business and corporate banking Other commercial: Investment grade Total global banking Other commercial: Investment grade Non-investment grade Total other commercial	1,507 \$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17 547 120 469 589	1,645 \$ 3,066 2020 \$ 361 292 653 254 459 713 539 1 540 442 110	\$ 2,360 2019 \$ 491 2,025 2,516 240 368 608 189 14 203 153 298	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220 64 16 80 174 —	\$ 2,439 2017 (in million \$ 57	Prior (s) \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240 636 4,876 3,527 47	Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707 1,402 11,109 5,428 1,067
Non-investment grade Total commercial Real estate, including construction: Investment grade Non-investment grade Total real estate, including construction Business and corporate banking: Investment grade Non-investment grade Total business and corporate banking Global banking: Investment grade Non-investment grade Non-investment grade Total global banking Other commercial: Investment grade Non-investment grade Non-investment grade Total other commercial Total commercial:	1,507 \$ 4,068 2021 \$ 1 968 969 881 749 1,630 530 17 547 120 469 589	1,645 \$ 3,066 2020 \$ 361 292 653 254 459 713 539 1 540 442 110 552	\$ 2,360 \$ 2,360 2019 \$ 491 2,025 2,516 240 368 608 189 14 203 153 298 451	2,316 \$ 3,429 2018 \$ 772 1,344 2,116 52 168 220 64 16 80 174 —	\$ 2,439 2017 (in million \$ 57 536 593 43 195 238 235 8 243 69 41 110	\$ 12,202 Prior \$ 248	\$ 16,865 Revolving Loans \$ 12 34 46 2,498 3,077 5,575 4,240 636 4,876 3,527 47 3,574	\$ 266 Revolving Loans Converted to Term Loans \$	\$ 44,695 Total at Dec. 31, 2021 \$ 1,942 6,292 8,234 6,145 7,813 13,958 9,707 1,402 11,109 5,428 1,067 6,495

Consumer Loan Credit Quality Indicators The following credit quality indicators are utilized to monitor our consumer loan portfolio:

Delinquency The following table summarizes dollars of two-months-and-over contractual delinquency for our consumer loan portfolio, including a disaggregation of the loans by year of origination as of June 30, 2022 and December 31, 2021:

	2	022		2021	20	020	2	2019	2	018	P	rior		olving oans	Ju	otal at in. 30, 2022
								(in m	illion	s)						
Residential mortgages ⁽¹⁾⁽²⁾	\$	_	\$	1	\$	3	\$	9	\$	3	\$	94	\$	_	\$	110
Home equity mortgages ⁽¹⁾⁽²⁾		_		_		_		_		_		3		_		3
Credit cards		_		_		_		_		_		_		2		2
Total consumer	\$	_	\$	1	\$	3	\$	9	\$	3	\$	97	\$	2	\$	115
	2	021		2020	20	010		2018	•	017	D			olving	De	otal at ec. 31, 2021
				2020	21	019		010		017	1	rior	L	oans		$\overline{}$
			•	2020		019			illion		- 1	rior	L	oans		
Residential mortgages ⁽¹⁾⁽²⁾	\$	5	\$	2	\$	11	\$				\$	64	\$	oans —	\$	103
Residential mortgages ⁽¹⁾⁽²⁾ Home equity mortgages ⁽¹⁾⁽²⁾	\$							(in m	illion	s)				<u></u>		103
	\$							(in m	illion	s)				- 3		103 1 3

At June 30, 2022 and December 31, 2021, consumer mortgage loan delinquency includes \$46 million and \$24 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less cost to sell.

Nonperforming The following table summarizes the nonperforming status of our consumer loan portfolio, including a disaggregation of the loans by year of origination as of June 30, 2022 and December 31, 2021:

	2022	2021	2020	2019	2018	Prior	Revolving Loans	Total at Jun. 30, 2022
				(in n	nillions)			
Residential mortgages:								
Performing loans	\$ 1,883	\$ 4,372	\$ 3,050	\$ 1,348	\$ 772	\$ 4,852	s —	\$ 16,277
Nonaccrual loans	_	4	9	17	15	153	_	198
Total residential mortgages	1,883	4,376	3,059	1,365	787	5,005	_	16,475
Home equity mortgages:								
Performing loans	19	16	34	32	18	223	_	342
Nonaccrual loans	_	_	_	_	_	9	_	9
Total home equity mortgages	19	16	34	32	18	232		351
Credit cards:								
Performing loans	_	_	_	_	_	_	203	203
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	1	1
Total credit cards	_	_			_	_	204	204
Other consumer:								
Performing loans	5	6	7	5	2	44	4	73
Total other consumer	5	6	7	5	2	44	4	73
Total consumer:								
Performing loans	1,907	4,394	3,091	1,385	792	5,119	207	16,895
Nonaccrual loans	_	4	9	17	15	162	_	207
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	1	1
Total consumer	\$ 1,907	\$ 4,398	\$ 3,100	\$ 1,402	\$ 807	\$ 5,281	\$ 208	\$ 17,103

⁽²⁾ At June 30, 2022 and December 31, 2021, consumer mortgage loans include \$10 million and \$87 million, respectively, of loans that were in the process of foreclosure.

	2021	2020	2019	2018	2017	Prior	Revolving Loans	Total at Dec. 31, 2021
				(in r	nillions)			
Residential mortgages:								
Performing loans	\$ 4,496	\$ 3,296	\$ 1,481	\$ 851	\$ 955	\$ 4,161	\$ —	\$ 15,240
Nonaccrual loans	2	9	15	21	14	168	_	229
Total residential mortgages	4,498	3,305	1,496	872	969	4,329		15,469
Home equity mortgages:								
Performing loans	15	30	30	18	17	206	_	316
Nonaccrual loans	_	_	_	_	_	9	_	9
Total home equity mortgages	15	30	30	18	17	215		325
Credit cards:								
Performing loans	_	_	_	_	_	_	202	202
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	2	2
Total credit cards							204	204
Other consumer:								
Performing loans	8	8	5	1	1	45	2	70
Total other consumer	8	8	5	1	1	45	2	70
Total consumer:								
Performing loans	4,519	3,334	1,516	870	973	4,412	204	15,828
Nonaccrual loans	2	9	15	21	14	177	_	238
Accruing loans contractually past due 90 days or more	_	_	_	_	_	_	2	2
Total consumer	\$ 4,521	\$ 3,343	\$ 1,531	\$ 891	\$ 987	\$ 4,589	\$ 206	\$ 16,068

Troubled debt restructurings The following table summarizes TDR Loans in our consumer loan portfolio, including a disaggregation of the loans by year of origination as of June 30, 2022 and December 31, 2021:

	202	22	202	1	202	20	2	019	2	018	P	rior		olving oans	Ju	otal at n. 30, 2022
								(in m	illion	s)						
Residential mortgages	\$	_	\$	_	\$	1	\$	8	\$	3	\$	125	\$	_	\$	137
Home equity mortgages		_		_		_		_		_		13		_		13
Credit cards		_		_		_		_		_		_		2		2
Total consumer	\$		\$	\equiv	\$	1	\$	8	\$	3	\$	138	\$	2	\$	152
	202	21	202	0	201	19	2	018	2	017	P	rior		olving oans	De	otal at ec. 31, 2021
	202	21	202	0	201	19	2	018 (in m			P	rior			De	ec. 31,
Residential mortgages	202		202	1	\$	3	\$				\$	rior 118			De	ec. 31,
Residential mortgages Home equity mortgages				1 				(in m	illion				L		De 2	ec. 31, 2021
				1 —				(in m	illion			118	L		De 2	2021 125

Concentration of Credit Risk At June 30, 2022 and December 31, 2021, our loan portfolios included interest-only residential mortgage and home equity mortgage loans totaling \$3,992 million and \$3,739 million, respectively. An interest-only residential mortgage loan allows a customer to pay the interest-only portion of the monthly payment for a period of time which results in lower payments during the initial loan period. However, subsequent events affecting a customer's financial position could affect the ability of customers to repay the loan in the future when the principal payments are required which increases the credit risk of this loan type.

7. Allowance for Credit Losses

We utilize a minimum of four forward-looking economic scenarios to calculate lifetime ECL when estimating the allowance for credit losses for in scope financial assets and the liability for off-balance sheet credit exposures. Three of the scenarios are termed the "Consensus Economic Scenarios" and represent a 'most likely outcome' (the "Central scenario") and two less likely 'outer' scenarios, referred to as the "Upside scenario" and the "Downside scenario". The fourth scenario, referred to as the "Alternative Downside scenario", is designed to consider severe downside risks with more extreme economic outcomes than those captured by the Consensus Economic Scenarios. Each scenario is assigned a weighting deemed appropriate for the estimation of lifetime ECL, with the majority of the weighting typically placed on the Central scenario. At management's discretion, changes may be made to the weighting assigned to the four scenarios or additional scenarios may be included in order to consider current economic conditions.

Updates to Economic Scenarios and Other Changes During the Six Months Ended June 30, 2022 During the first quarter of 2022, in addition to the continued economic uncertainty caused by the coronavirus ("COVID-19") pandemic, the impact of the Russia-Ukraine war created further uncertainty about the future economic environment. As a result, in addition to updating our three Consensus Economic Scenarios and our Alternative Downside scenario, we developed and utilized a fifth scenario for estimating lifetime ECL at March 31, 2022, referred to as the "Alternative Downside 2 scenario" to reflect the possibility that the Russia-Ukraine war could last for a prolonged period. Each of the five scenarios were assigned weightings with the majority of the weighting placed on the Central scenario, the second most weighting placed on the Alternative Downside 2 scenario, lower equal weights placed on the Downside and Alternative Downside scenarios, and the lowest weighting placed on the Upside scenario. This weighting was deemed appropriate for the estimation of lifetime ECL at that time.

During the second quarter of 2022, the impacts of the Russia-Ukraine war and the COVID-19 pandemic on general economic conditions, especially inflation, energy prices and interest rates, continued to create uncertainty about the future economic environment. As a result, we updated our economic scenarios to reflect management's current view of forecasted economic conditions and utilized the five updated scenarios for estimating lifetime ECL at June 30, 2022. Each of the five scenarios were assigned weightings with the majority of the weighting placed on the Central scenario, the second most weighting placed on the Downside scenario, lower equal weights placed on the Alternative Downside and Alternative Downside 2 scenarios, and the lowest weighting placed on the Upside scenario. This weighting was deemed appropriate for the estimation of lifetime ECL under current conditions. The following discussion summarizes the Central, Upside, Downside, Alternative Downside and Alternative Downside 2 scenarios at June 30, 2022. The economic assumptions described in this section have been formed specifically for the purpose of calculating ECL.

In the Central scenario, U.S. Gross Domestic Product ("GDP") grows modestly in 2022, under the assumption that economic activities remain stable while impacts from newly emerging risks, including those from high inflation, subside under appropriate monetary policy actions. With modest economic growth, the unemployment rate remains low, while demand for housing, combined with limited supply, continues to drive residential housing prices forward, and commercial real estate prices also continue to appreciate. In the financial markets, growth in financial asset prices remains moderate, the Federal Reserve Board ("FRB") continues to tackle inflation by raising its policy rate, and the 10-year U.S. Treasury yield remains elevated.

In the Upside scenario, the economy is assumed to grow at a faster pace than in the Central scenario. As a result, the unemployment rate falls faster than in the Central scenario, and both commercial and residential real estate prices grow at faster rates than in the Central scenario. In this scenario, the equity price index climbs with strong momentum, and overall optimism allows the FRB to raise its policy rate faster than currently anticipated, which consequently drives the 10-year U.S. Treasury yield to a level that is higher than in the Central scenario.

In the Downside scenario, the economy enters into a recession, with the unemployment rate reversing its downward trend and remaining at a higher level. The residential housing market slowly loses its momentum due to weakness in the labor market, and the commercial real estate market suffers a heavier deceleration than the residential housing market. In this scenario, the equity price index goes through a moderate price correction by the middle of 2023, driven by an overall erosion of consumer and business sentiments, which also results in a lower 10-year U.S. Treasury yield than in the Central scenario, and the federal funds rate remains at the lowest level for the next two years.

In the Alternative Downside scenario, the Russia-Ukraine war becomes a protracted conflict and persistent inflationary pressures lead the U.S. economy into a deep recession in late 2022, followed by a very anemic recovery starting in early 2024. An extended period of economic contraction keeps the unemployment rate at an elevated level, which pressures residential housing prices to depreciate substantially, while at the same time, contracting corporate activities and rising unemployment pushes the commercial real estate market into a downturn. In this scenario, financial markets experience a major sell-off and volatility in the financial markets remains extremely high over the next year, widening corporate credit spreads substantially, and flight to safe haven assets pushes the 10-year U.S. Treasury yield lower.

In the Alternative Downside 2 scenario, the FRB is unable to tame inflation using appropriate monetary policy actions and high inflationary pressures lead to a period of economic stagnation. In this scenario, the Russia-Ukraine war intensifies, putting upward pressure on inflation. The FRB aims to tackle inflation and embarks on a more aggressive rate hiking cycle, which eventually proves futile and exacerbates the economic situation. Unemployment reverses its downward trend and starts to accelerate in early 2024 while corrections in risky asset prices lead to a flight to quality in global asset markets.

The following table presents the forecasted key macroeconomic variables in our Central scenarios used for estimating lifetime ECL at June 30, 2022, March 31, 2022 and December 31, 2021:

	Fe	or the Quarter Endec	i
	December 31, 2022	June 30, 2023	December 31, 2023
Unemployment rate (quarterly average):			_
Forecast at June 30, 2022	3.5 %	3.5 %	3.5 %
Forecast at March 31, 2022	3.6	3.5	3.6
Forecast at December 31, 2021	4.0	3.8	3.7
GDP growth rate (year-over-year):			
Forecast at June 30, 2022	1.5	1.8	2.0
Forecast at March 31, 2022	2.8	2.6	2.4
Forecast at December 31, 2021	2.8	2.3	2.5

In addition to the updates to the economic scenarios, we increased the management judgment allowance on our commercial loan portfolio for risk factors associated with large loan and higher risk industry exposures, supply chain disruptions and energy price uncertainty that are not fully captured in the models. We also increased the management judgment allowance on our consumer loan portfolio for risk factors associated with economic uncertainty, including inflation, that are not fully captured in the models.

While we believe that the assumptions used in our credit loss models are reasonable within the parameters for which the models have been built and calibrated to operate, the severe projections of macro-economic variables during the COVID-19 pandemic and subsequent recovery represent events outside the parameters for which the models have been built. As a result, adjustments to model outputs to reflect consideration of management judgment are used with stringent governance in place to ensure an appropriate lifetime ECL estimate.

The impacts of higher inflation, rising energy prices and increasing interest rates as well as the continuing impacts of the Russia-Ukraine war and the COVID-19 pandemic on economic conditions will continue to evolve and impact our business and our allowance for credit losses in future periods, the extent of which remains uncertain. We will continue to monitor these situations closely and will continue to adapt our approach as necessary to reflect management's current view of forecasted economic conditions.

Allowance for Credit Losses / Liability for Off-Balance Sheet Credit Exposures The following table summarizes our allowance for credit losses and the liability for off-balance sheet credit exposures:

	•	June 30, 2022		ember 31, 2021
		(in m	nillions)	,
Allowance for credit losses:				
Loans	···· \$	534	\$	447
Securities held-to-maturity ⁽¹⁾		_		1
Other financial assets measured at amortized cost ⁽²⁾		1		1
Securities available-for-sale ⁽¹⁾		2		1
Total allowance for credit losses	···· \$	537	\$	450
Liability for off-balance sheet credit exposures	···· \$	89	\$	103

⁽¹⁾ See Note 5, "Securities," for additional information regarding the allowance for credit losses associated with our security portfolios.

⁽²⁾ Primarily includes accrued interest receivables and customer acceptances.

The following table summarizes the changes in the allowance for credit losses on loans by product or line of business during the three and six months ended June 30, 2022 and 2021:

	Commercial Loans				Consumer Loans												
	inc	l Estate, luding struction	Cor	isiness and rporate inking	lobal inking		Other omm'l	Mo	sidential ortgages	Ec	ome Juity tgages		redit ards	-	Other nsumer		Fotal Loans
Three Months Ended June 30, 2022							(ir	n mill	ions)								
Allowance for credit losses – beginning of period	\$	122	\$	197	\$ 120	\$	2	\$	5	\$	6	\$	15	\$	_	\$	467
Provision charged (credited) to income	-	40		22	(2)	•	(1)		(1)	•	1	•	5		(1)	•	63
Charge-offs		_		(1)	_		_		_		_		_		_		(1)
Recoveries		_		_	_		_		2		_		2		1		5
Net (charge-offs) recoveries				(1)					2			_	2		1		4
Allowance for credit losses – end of period	\$	162	\$	218	\$ 118	\$	1	\$	6	\$	7	\$	22	\$		\$	534
Three Months Ended June 30, 2021																	
Allowance for credit losses – beginning of period	\$	120	\$	321	\$ 222	\$	7	\$	(9)	\$	21	\$	144	\$	27	\$	853
Provision charged (credited) to income ⁽¹⁾		(3)		(24)	(79)		(1)		8		(5)		(76)		(21)		(201)
Charge-offs ⁽¹⁾		_		(14)	(12)		_		(9)		(2)		(70)		(7)		(114)
Recoveries		_		1	_		_		4		1		2		1		9
Net (charge-offs) recoveries				(13)	(12)		_		(5)		(1)		(68)		(6)		(105)
Allowance for credit losses – end of period	\$	117	\$	284	\$ 131	\$	6	\$	(6)	\$	15	\$		\$		\$	547
Six Months Ended June 30, 2022																	
Allowance for credit losses – beginning of period	\$	73	\$	243	\$ 100	\$	4	\$	8	\$	5	\$	14	\$	_	\$	447
Provision charged (credited) to income		89		(18)	27		(3)		(5)		1		4		(1)		94
Charge-offs		_		(9)	(9)		_		(1)		(1)		_		_		(20)
Recoveries				2	_		_		4		2		4		1		13
Net (charge-offs) recoveries				(7)	(9)		_		3		1		4		1		(7)
Allowance for credit losses – end of period	\$	162	\$	218	\$ 118	\$	1	\$	6	\$	7	\$	22	\$		\$	534
Six Months Ended June 30, 2021																	
Allowance for credit losses – beginning of period	\$	145	\$	375	\$ 287	\$	7	\$	(9)	\$	22	\$	161	\$	27	\$	1,015
Provision charged (credited) to income ⁽¹⁾		(28)		(77)	(144)		(1)		6		(8)		(77)		(17)		(346)
Charge-offs ⁽¹⁾		_		(16)	(12)		_		(10)		(2)		(88)		(11)		(139)
Recoveries				2					7		3		4		1		17
Net (charge-offs) recoveries		_		(14)	(12)			_	(3)		1	_	(84)		(10)		(122)
Allowance for credit losses – end of period	\$	117	\$	284	\$ 131	\$	6	\$	(6)	\$	15	\$		\$		\$	547

⁽¹⁾ For loans that are transferred to held for sale, the existing allowance for credit losses at the time of transfer is recognized as a charge-off to the extent fair value is less than amortized cost and attributable to credit. Any remaining allowance for credit losses is released to the provision for credit losses.

During the second quarter of 2021, we made the decision to exit our mass market retail banking business which resulted in the transfer of certain loans to held for sale. As a result of transferring these loans to held for sale, we recognized \$56 million of the existing allowance for credit losses on consumer loans as charge-offs, primarily related to non-performing credit cards, and released \$100 million of the existing allowance for credit losses on consumer loans as reductions to the provision for credit losses, primarily related to credit cards. The existing commercial allowance for credit losses on the retail business banking loan portfolio transferred to held for sale was not material. See Note 3, "Branch Assets and Liabilities Held for Sale."

The following table summarizes the changes in the liability for off-balance sheet credit exposures during the three and six months ended June 30, 2022 and 2021:

	Th	Three Months Ended June 30,				Six Months Endo June 30,		
	2022 2021			2022		2021		
			(in millions)					
Balance at beginning of period	\$	84	\$	155	\$	103	\$	237
Provision charged (credited) to income		5		(27)		(14)		(109)
Balance at end of period	\$	89	\$	128	\$	89	\$	128

Accrued Interest Receivables The following table summarizes accrued interest receivables associated with financial assets carried at amortized cost and securities available-for-sale along with the related allowance for credit losses, which are reported net in other assets on the consolidated balance sheet. These accrued interest receivables are excluded from the amortized cost basis disclosures presented elsewhere in these financial statements, including Note 5, "Securities," and Note 6, "Loans."

	June 30, 2022	December 31, 2021
	(in m	nillions)
Accrued interest receivables:		
Loans	\$ 133	\$ 109
Securities held-to-maturity	12	13
Other financial assets measured at amortized cost	3	1
Securities available-for-sale	87	82
Total accrued interest receivables	235	205
Allowance for credit losses	_	1
Accrued interest receivables, net	\$ 235	\$ 204

During both the three and six months ended June 30, 2022, we charged-off accrued interest receivables by reversing interest income for loans of \$1 million compared with \$2 million during both the three and six months ended June 30, 2021.

8. Loans Held for Sale

2021 (in millions) Commercial loans: Business and corporate banking \$ 7 \$ 12 Global banking 366 32 Total commercial 373 46 Consumer loans: 12 3,08 Home equity mortgages - 27 Credit cards 8 19	Loans held for sale consisted of the following:		
Commercial loans: Business and corporate banking \$ 7 \$ 12 Global banking 366 32 Total commercial 373 46 Consumer loans: 12 3,08 Home equity mortgages - 22 Credit cards 8 19			December 31, 2021
Business and corporate banking \$ 7 \$ 12 Global banking 366 32 Total commercial 373 46 Consumer loans: 12 3,03 Home equity mortgages — 22 Credit cards 8 19		(in m	illions)
Global banking 366 33 Total commercial 373 46 Consumer loans: Residential mortgages 12 3,08 Home equity mortgages — 27 Credit cards 8 19	Commercial loans:		
Total commercial 373 46 Consumer loans: Residential mortgages 12 3,03 Home equity mortgages — 27 Credit cards 8 19	Business and corporate banking \$	7	\$ 123
Consumer loans: Residential mortgages Home equity mortgages - 2 Credit cards 8 19	Global banking	366	338
Residential mortgages 12 3,08 Home equity mortgages 22 Credit cards 8 19	Total commercial	373	461
Home equity mortgages 22 Credit cards 8 19	Consumer loans:		
Credit cards 8 19	Residential mortgages	12	3,082
	Home equity mortgages		275
0.4	Credit cards	8	195
Other consumer 96 20	Other consumer	96	204
Total consumer	Total consumer	116	3,756
Total loans held for sale \$ 489 \$ 4,2	Total loans held for sale	489	\$ 4,217

Commercial Loans During the first quarter of 2022, we completed the sale of the branch disposal group that we previously transferred to held for sale in 2021 as part of our Restructuring Plan. The sale included certain retail business banking loans with a carrying value at the time of sale of \$37 million. See Note 3, "Branch Assets and Liabilities Held for Sale," for additional information.

Also included in commercial loans held for sale are certain other loans that we no longer intend to hold for investment and were transferred to held for sale which totaled \$201 million and \$359 million at June 30, 2022 and December 31, 2021, respectively. During the three and six months ended June 30, 2022 and 2021, lower of amortized cost or fair value adjustments on commercial loans held for sale were immaterial.

In addition, commercial loans held for sale includes certain loans that we have elected to designate under the fair value option which consists of loans that we originate in connection with our participation in a number of syndicated credit facilities with the intent of selling them to unaffiliated third parties as well as loans that we purchase from the secondary market and hold as hedges against our exposure to certain total return swaps. The fair value of these loans totaled \$172 million and \$23 million at June 30, 2022 and December 31, 2021, respectively. See Note 11, "Fair Value Option," for additional information.

During the second quarter of 2022, we also sold certain global banking loans to third parties in order to reduce risk-weighted assets as part of our Restructuring Plan. These global banking loans had a carrying value at the time of sale of \$44 million and we recognized a loss on sale of \$3 million. The loss on sale is reflected as a component of other income (loss) in the consolidated statement of income.

Consumer Loans As discussed above, during the first quarter of 2022, we completed the sale of the branch disposal group that we previously transferred to held for sale in 2021 as part of our Restructuring Plan. The sale included certain consumer loans with a carrying value at the time of sale which collectively totaled \$2,102 million, including \$1,665 million of residential mortgages, \$185 million of home equity mortgages, \$168 million of credit cards and \$84 million of other consumer loans. See Note 3, "Branch Assets and Liabilities Held for Sale," for additional information.

In addition to the branch disposal group discussed above, during the first quarter of 2022, we sold a portfolio of consumer loans to a third party consisting primarily of certain non-performing mortgage loans and government-backed mortgage loans that we previously transferred to held for sale in 2021 as part of our Restructuring Plan. These mortgage loans had a carrying value at the time of sale which collectively totaled \$904 million, including \$865 million of residential mortgages and \$39 million of home equity mortgages, and we recognized a loss on sale of \$35 million, largely reflecting changes in the final terms of the sale. The loss on sale is reflected as a component of other income (loss) in the consolidated statement of income.

Subsequent to completion of the sales discussed above, during the second quarter of 2022, the remaining mass market residential mortgage and home equity mortgage loans not sold, with a carrying value which collectively totaled \$538 million, were transferred back to held for investment as we now intend to hold these loans as a run-off portfolio for the foreseeable future.

At June 30, 2022, additional consumer loans that we previously transferred to held for sale in 2021 as part of our Restructuring Plan remained in loans held for sale, including \$8 million of credit cards and \$96 million of other consumer loans (of which \$22 million are student loans that we have previously elected to designate under the fair value option and are therefore carried at fair value). During the three and six months ended June 30, 2022 and 2021, lower of amortized cost or fair value adjustments on consumer loans held for sale were immaterial.

In addition, residential mortgage loans held for sale includes agency-eligible conforming residential mortgage loans which are originated and held for sale to third parties, currently on a servicing retained basis. Gains and losses from the sale of these residential mortgage loans are reflected as a component of other income (loss) in the consolidated statement of income.

Loans held for sale are subject to market risk, liquidity risk and interest rate risk, in that their value will fluctuate as a result of changes in market conditions, as well as the credit environment. Interest rate risk for residential mortgage loans which are originated and held for sale is partially mitigated through an economic hedging program to offset changes in the fair value of these mortgage loans held for sale, from the time of commitment to sale, attributable to changes in market interest rates. Revenue associated with this economic hedging program, which is reflected as a component of other income (loss) in the consolidated statement of income, was gains of \$3 million and \$7 million during the three and six months ended June 30, 2022, respectively, compared with losses of \$3 million and \$1 million during the three and six months ended June 30, 2021, respectively.

Valuation Allowances Excluding the loans designated under the fair value option discussed above, loans held for sale are recorded at the lower of amortized cost or fair value, with adjustments to fair value being recorded as a valuation allowance through other revenues. The valuation allowance on consumer loans held for sale was \$13 million and \$7 million at June 30, 2022 and December 31, 2021, respectively. The valuation allowance on commercial loans held for sale was \$1 million and \$5 million at June 30, 2022 and December 31, 2021, respectively.

9. Goodwill

Goodwill was \$458 million at both June 30, 2022 and December 31, 2021. Goodwill for these periods reflects accumulated impairment losses of \$1,819 million, which were recognized in prior periods. During the second quarter of 2022, there were no events or changes in circumstances to indicate that it is more likely than not the fair value of our Commercial Banking reporting unit has been reduced below its carrying amount.

10. Derivative Financial Instruments

In the normal course of business, the derivative instruments we enter into are for trading, market making and risk management purposes. For financial reporting purposes, derivative instruments are designated in one of the following categories: (a) hedging instruments designated as qualifying hedges under derivative and hedge accounting principles, (b) financial instruments held for trading or (c) non-qualifying economic hedges. The derivative instruments held are predominantly swaps, futures, options and forward contracts. All derivatives are stated at fair value. Where we enter into enforceable master netting agreements with counterparties, the master netting agreements permit us to net those derivative asset and liability positions and to offset cash collateral held and posted with the same counterparty.

The following table presents the fair value of derivative contracts by major product type on a gross basis. Gross fair values exclude the effects of both counterparty netting as well as collateral, and therefore are not representative of our exposure. The table below also presents the amounts of counterparty netting and cash collateral that have been offset in the consolidated balance sheet, as well as cash and securities collateral posted and received under enforceable master netting agreements that do not meet the criteria for netting. Derivative assets and liabilities which are not subject to an enforceable master netting agreement, or are subject to a netting agreement where an appropriate legal opinion to determine such agreements are enforceable has not been either sought or obtained, have not been netted in the following table. Where we have received or posted collateral under netting agreements where an appropriate legal opinion to determine such agreements are enforceable has not been either sought or obtained, the related collateral also has not been netted in the following table.

	June 3	0, 2022	December 31, 2021				
	Derivative Assets	Derivative Liabilities	Derivative Assets	Derivative Liabilities			
	(in millions)						
Derivatives accounted for as fair value hedges ⁽¹⁾							
Interest rate contracts - bilateral OTC ⁽²⁾	s —	\$ 49	\$ —	\$ 5			
Derivatives accounted for as cash flow hedges ⁽¹⁾							
Foreign exchange contracts - bilateral OTC ⁽²⁾		_	29	_			
Interest rate contracts - bilateral OTC ⁽²⁾	<u> </u>	2		2			
Total derivatives accounted for as hedges	37	51	29	7			
Trading derivatives not accounted for as hedges ⁽³⁾							
Exchange-traded ⁽²⁾	26	16	8	10			
OTC-cleared ⁽²⁾	30	_	37	_			
Bilateral OTC ⁽²⁾	1,735	1,448	1,756	1,877			
Interest rate contracts	1,791	1,464	1,801	1,887			
Foreign exchange controls - bilateral OTC ⁽²⁾	16,579	16,401	11,321	11,125			
Exchange-traded ⁽²⁾	_	21	_	_			
Bilateral OTC ⁽²⁾	1,249	522	588	1,240			
Equity contracts	1,249	543	588	1,240			
Exchange-traded ⁽²⁾	6	_	4	_			
Bilateral OTC ⁽²⁾	1,295	1,108	936	779			
Precious metals contracts	1,301	1,108	940	779			
OTC-cleared ⁽²⁾	2	_	_	_			
Bilateral OTC ⁽²⁾	72	44	28	25			
Credit contracts	74	44	28	25			
Other non-qualifying derivatives not accounted for as hedges ⁽¹⁾							
Interest rate contracts - bilateral OTC ⁽²⁾	1	52	47	5			
Foreign exchange contracts - bilateral OTC ⁽²⁾	_	_	_	1			
Equity contracts - bilateral OTC ⁽²⁾	477	741	1,470	121			
OTC-cleared ⁽²⁾		2	_	19			
Bilateral OTC ⁽²⁾		33	_	38			
Credit contracts		35		57			
Other contracts - bilateral OTC ⁽²⁾⁽⁴⁾	7	54	5	38			
Total derivatives		20,493	16,229	15,285			
Less: Gross amounts of receivable / payable subject to enforceable master netting agreements (5)(7)	15,762	15,762		11,991			
Less: Gross amounts of cash collateral received / posted subject to enforceable master netting agreements $^{(6)(7)}$	3,410	1,792	2,797	1,296			
Net amounts of derivative assets / liabilities presented in the balance sheet		2,939	1,441	1,998			
Less: Gross amounts of financial instrument collateral received / posted subject to enforceable master netting agreements but not offset in the consolidated balance	425		•	104			
sheet		35	179	194			
Net amounts of derivative assets / liabilities	\$ 1,912	\$ 2,904	\$ 1,262	\$ 1,804			

⁽¹⁾ Derivative assets / liabilities related to cash flow hedges, fair value hedges and derivative instruments held for purposes other than for trading are recorded in other assets / interest, taxes and other liabilities on the consolidated balance sheet.

Over-the-counter ("OTC") derivatives include derivatives executed and settled bilaterally with counterparties without the use of an organized exchange or central clearing house. The credit risk associated with bilateral OTC derivatives is managed through obtaining collateral and enforceable master netting agreements. OTC-cleared derivatives are executed bilaterally in the OTC market but then novated to a central clearing counterparty, whereby the central clearing counterparty becomes the counterparty to each of the original counterparties. Exchange traded derivatives are executed directly on an organized exchange. Credit risk is minimized for OTC-cleared derivatives and exchange traded derivatives through daily margining requirements. In addition, OTC-cleared interest rate and credit derivatives with certain central clearing counterparties are settled daily.

⁽³⁾ Trading related derivative assets / liabilities are recorded in trading assets / trading liabilities on the consolidated balance sheet.

⁽⁴⁾ Consists of swap agreements entered into in conjunction with the sales of Visa Inc. ("Visa") Class B common shares ("Class B Shares").

⁽⁵⁾ Represents the netting of derivative receivable and payable balances for the same counterparty under enforceable netting agreements.

⁽⁶⁾ Represents the netting of cash collateral posted and received by counterparty under enforceable netting agreements.

⁽⁷⁾ Netting is performed at a counterparty level in cases where enforceable master netting agreements are in place, regardless of the type of derivative instrument. Therefore, we have not allocated netting to the different types of derivative instruments shown in the table above.

Cumulative Amount of Fair Value Hedging

See Note 18, "Guarantee Arrangements, Pledged Assets and Repurchase Agreements," for further information on offsetting related to resale and repurchase agreements.

Derivatives Held for Risk Management Purposes Our risk management policy requires us to identify, analyze and manage risks arising from the activities conducted during the normal course of business. We use derivative instruments as an asset and liability management tool to manage our exposures in interest rate, foreign currency and credit risks in existing assets and liabilities, commitments and forecasted transactions. The accounting for changes in fair value of a derivative instrument will depend on whether the derivative has been designated and qualifies for hedge accounting.

We designate derivative instruments to offset the fair value risk and cash flow risk arising from fixed-rate and floating-rate assets and liabilities as well as forecasted transactions. We assess the hedging relationships, both at the inception of the hedge and on an ongoing basis, using a regression approach to determine whether the designated hedging instrument is highly effective in offsetting changes in the fair value or the cash flows attributable to the hedged risk. Accounting principles for qualifying hedges require us to prepare detailed documentation describing the relationship between the hedging instrument and the hedged item, including, but not limited to, the risk management objective, the hedging strategy and the methods to assess and measure the ineffectiveness of the hedging relationship. We discontinue hedge accounting when we determine that the hedge is no longer highly effective, the hedging instrument is terminated, sold or expired, the designated forecasted transaction is not probable of occurring, or when the designation is removed by us.

Fair Value Hedges In the normal course of business, we hold fixed-rate loans and securities, and issue fixed-rate deposits and senior and subordinated debt obligations. The fair value of fixed-rate assets and liabilities fluctuates in response to changes in interest rates. We utilize interest rate swaps, forward and futures contracts to minimize our exposure to changes in fair value caused by interest rate volatility. The changes in the fair value of the hedged item designated in a qualifying hedge are captured as an adjustment to the carrying amount of the hedged item (basis adjustment). If the hedging relationship is discontinued and the hedged item continues to exist, the basis adjustment is amortized over the remaining life of the hedged item.

The following table presents the carrying amount of hedged items in fair value hedges recognized in the consolidated balance sheet at June 30, 2022 and December 31, 2021, along with the cumulative amount of fair value hedging adjustments included in the carrying amount of those hedged items:

	Carry	ing Amount of		Adjustmen	reasing) the ged Items			
		Carrying Amount of — Hedged Items ⁽¹⁾			Di	scontinued		Total
				(in millio	ons)			
At June 30, 2022								
Securities available-for-sale ("AFS")	\$	15,181	\$	(1,111)	\$	464	\$	(647)
Deposits		1,496		(115)		111		(4)
Long-term debt		6,199		(431)		130		(301)
At December 31, 2021								
Securities AFS		7,919		(72)		1,010		938
Deposits		1,598		(27)		125		98
Long-term debt		5,587		(61)		148		87

⁽¹⁾ The carrying amount of securities AFS represents the amortized cost basis.

The following table presents information on gains and losses on derivative instruments designated and qualifying as hedging instruments and the hedged items in fair value hedges and their location on the consolidated statement of income:

Location of Gain (Loss) Recognized in Income	Gain (Loss	s) on Derivatives	Gain (Loss	on Hedged Items
		(in mi	llions)	
Net interest income	\$	748	\$	(679)
Net interest income		(20)		3
Net interest income		(90)		69
	\$	638	\$	(607)
Net interest income	\$	(382)	\$	407
Net interest income		11		(21)
Net interest income		63		(78)
	\$	(308)	\$	308
Net interest income	\$	1,407	\$	(1,321)
Net interest income		(85)		54
Net interest income				295
	\$	<u>`</u> _	\$	(972)
Net interest income	\$	192	\$	(140)
Net interest income		(32)		8
Net interest income		(14)		(11)
	\$	146	\$	(143)
	Net interest income	Net interest income	Recognized in Income Gain (Loss) on Derivatives Net interest income \$ 748 Net interest income (90) Net interest income \$ 638 Net interest income 11 Net interest income 63 Net interest income \$ (308) Net interest income (85) Net interest income (326) Net interest income \$ 996 Net interest income \$ (32) Net interest income (32) Net interest income (32) Net interest income (32) Net interest income (32)	Recognized in Income Gain (Loss) on Derivatives Gain (Loss) (in millions) Net interest income \$ 748 \$ Net interest income (90) Net interest income (382) Net interest income 63 Net interest income (308) Net interest income (85) Net interest income (326) Net interest income \$ Net interest income \$ Net interest income \$ Net interest income (32) Net interest income (14)

Cash Flow Hedges We own or issue floating rate financial instruments and enter into forecasted transactions that give rise to variability in future cash flows. As a part of our risk management strategy, we use interest rate swaps, currency swaps and futures contracts to mitigate risk associated with variability in the cash flows. Changes in fair value of a derivative instrument associated with a qualifying cash flow hedge are recognized in other comprehensive income (loss). When the cash flows being hedged materialize and are recorded in income or expense, the associated gain or loss from the hedging derivative previously recorded in accumulated other comprehensive loss ("AOCI") is reclassified into earnings in the same accounting period in which the designated forecasted transaction or hedged item affects earnings. If a cash flow hedge of a forecasted transaction is discontinued because it is no longer highly effective, or if the hedge relationship is terminated, the cumulative gain or loss on the hedging derivative to that date will continue to be reported in AOCI unless it is probable that the hedged forecasted transaction will not occur by the end of the originally specified time period as documented at the inception of the hedge, at which time the cumulative gain or loss is released into earnings.

At June 30, 2022, active cash flow hedge relationships extend or mature through August 2032. During the three and six months ended June 30, 2022, respectively, \$1 million and \$2 million of losses related to discontinued cash flow hedge relationships were amortized to earnings from AOCI compared with gains of \$4 million and \$3 million during the three and six months ended June 30, 2021, respectively. During the next twelve months, we expect to amortize \$14 million of remaining losses to earnings resulting from these discontinued cash flow hedges. The interest accrual related to the hedging instruments is recognized in net interest income.

The following table presents information on gains and losses on derivative instruments designated and qualifying as hedging instruments in cash flow hedges (including amounts recognized in AOCI from discontinued cash flow hedges) and their location on the consolidated statement of income:

		Recognized in Derivatives	Location of Gain (Loss) Reclassified from AOCI		Gain (Loss) Reclassified Fr AOCI into Income				
	2022	2021	into Income	20	022	2021			
			(in millions)						
Three Months Ended June 30,									
Foreign exchange contracts	s —	\$ —	Net interest income	\$	— \$				
Interest rate contracts	(82)	(8)	Net interest income		(1)	4			
Total	\$ (82)	\$ (8)		\$	(1) \$	4			
Six Months Ended June 30,									
Foreign exchange contracts	s —	\$ (1)	Net interest income	\$	— \$				
Interest rate contracts	(283)	(24)	Net interest income		(2)	3			
Total	\$ (283)	\$ (25)		\$	(2) \$	3			

Trading Derivatives and Non-Qualifying Hedging Activities In addition to risk management, we also enter into derivative contracts, including buy- and sell-protection credit derivatives, for the purposes of trading and market making, or repackaging risks to form structured trades to meet clients' risk taking objectives. Additionally, we buy or sell securities and use derivatives to mitigate the market risks arising from our trading activities with our clients that exceed our risk appetite. We also use buy-protection credit derivatives to manage our counterparty credit risk exposure. Where we enter into derivatives for trading purposes, realized and unrealized gains and losses are recognized in trading revenue. Counterparty credit risk associated with OTC derivatives, including risk-mitigating buy-protection credit derivatives, are recognized as an adjustment to the fair value of the derivatives and are recorded in trading revenue.

Our non-qualifying hedging and other activities include:

- Derivative contracts related to the fixed-rate long-term debt issuances and hybrid instruments, including all structured
 notes and deposits, for which we have elected fair value option accounting. These derivative contracts are nonqualifying hedges but are considered economic hedges.
- Credit default swaps which are designated as economic hedges against the credit risks within our loan portfolio. In the event of an impairment loss occurring in a loan that is economically hedged, the impairment loss is recognized as provision for credit losses while the gain on the credit default swap is recorded as other income (loss).
- Swap agreements entered into in conjunction with the sales of Visa Class B Shares to a third party to retain the litigation risk associated with the Class B Shares sold until the related litigation is settled and the Class B Shares can be converted into Class A common shares ("Class A Shares"). See Note 18, "Guarantee Arrangements, Pledged Assets and Repurchase Agreements," for additional information.
- Forward purchases or sales of to-be-announced ("TBA") securities used to economically hedge changes in the fair value of residential mortgage loans which are originated and held for sale attributable to changes in market interest rates. Changes in the fair value of TBA positions, which are considered derivatives, are recorded in other income (loss). See Note 8, "Loans Held for Sale," for additional information.

Derivative instruments designated as economic hedges that do not qualify for hedge accounting are recorded at fair value through profit and loss. Realized and unrealized gains and losses on economic hedges are recognized in gain on instruments designated at fair value and related derivatives or other income (loss) while the derivative asset or liability positions are reflected as other assets or other liabilities.

Gain (Loss) Recognized in Income on

The following table presents information on gains and losses on derivative instruments held for trading purposes and their location on the consolidated statement of income:

	Derivatives									
	Location of Gain (Loss)	Th	ree Moi Jun				Six Mont Jun			
	Recognized in Income on Derivatives	2022			2021	2022			2021	
		(in millions)								
Interest rate contracts	Trading revenue	\$	150	\$	(277)	\$	376	\$	152	
Foreign exchange contracts	Trading revenue		(34)		52		116		168	
Equity contracts	Trading revenue		1,763		(701)		2,678		(980)	
Precious metals contracts	Trading revenue		104		121		41		41	
Credit contracts	Trading revenue		31		(44)		63		171	
Total		\$	2,014	\$	(849)	\$	3,274	\$	(448)	

The following table presents information on gains and losses on derivative instruments held for non-qualifying hedging and other activities and their location on the consolidated statement of income:

						ivatives									
	Location of Gain (Loss)	Tł	ree Mor Jun			S	Six Montl June								
	Recognized in Income on Derivatives		2022		2021		2022	2	2021						
					(in mi	llion	ıs)								
Interest rate contracts	Gain on instruments designated at fair value and related derivatives	\$	(92)	\$	63	\$	(215)	\$	(54)						
Interest rate contracts	Other income (loss)		3		(3)		7		(1)						
Foreign exchange contracts	Gain on instruments designated at fair value and related derivatives		1		_		1								
Equity contracts	Gain on instruments designated at fair value and related derivatives		(864)		386	(1,214)		872						
Credit contracts	Other income (loss)		5		(6)		10		(12)						
Other contracts ⁽¹⁾	Other income (loss)		(30)		(5)		(31)		(3)						
Total		\$	(977)	\$	435	\$(1,442)	\$	802						
I otal		<u>\$</u>	(977)	\$	435	<u>\$(</u>	1,442)	\$	802						

⁽¹⁾ Consists of swap agreements entered into in conjunction with the sales of Visa Class B Shares.

Credit-Risk Related Contingent Features The majority of our derivative contracts contain provisions that require us to maintain a specific credit rating from each of the major credit rating agencies. Sometimes the derivative instrument transactions are a part of broader structured product transactions. If our credit ratings were to fall below the current ratings, the counterparties to our derivative instruments could demand us to post additional collateral. The amount of additional collateral required to be posted will depend on whether we are downgraded by one or more notches. The aggregate fair value of all derivative instruments with credit-risk related contingent features that were in a net liability position at June 30, 2022 was \$589 million, for which we had posted collateral of \$375 million. The aggregate fair value of all derivative instruments with credit-risk-related contingent features that were in a net liability position at December 31, 2021 was \$361 million, for which we had posted collateral of \$172 million. Substantially all of the collateral posted is in the form of cash or securities available-for-sale. See Note 18, "Guarantee Arrangements, Pledged Assets and Repurchase Agreements," for further details.

The following table presents the amount of additional collateral that we would be required to post (from the current collateral level) related to derivative instruments with credit-risk related contingent features if our long-term ratings were downgraded by one or two notches. A downgrade by a single rating agency that does not result in a rating lower than a preexisting corresponding rating provided by another rating agency will generally not result in additional collateral.

	One-noten downgrade	downgrac	
	(in mi	llions)	
Amount of additional collateral to be posted upon downgrade\$	19	\$	67

Notional Value of Derivative Contracts The following table summarizes the notional values of derivative contracts:

	June 30, 2	June 30, 2022		nber 31, 2021
		(in mi	llions)	
Interest rate:				
Futures and forwards	\$ 3	5,879	\$	44,686
Swaps	13	7,552		177,876
Options written		8,207		10,842
Options purchased		8,110		12,688
Total interest rate	18	9,748		246,092
Foreign exchange:				
Swaps, futures and forwards	1,12	8,497		974,725
Options written	2	25,859		28,577
Options purchased	2	26,256		28,678
Spot	5	4,234		31,319
Total foreign exchange	1,23	4,846		1,063,299
Commodities, equities and precious metals:				
Swaps, futures and forwards	6	4,174		60,054
Options written		2,113		5,873
Options purchased		9,416		11,800
Total commodities, equities and precious metals	7	5,703		77,727
Credit derivatives	1	1,619		7,023
Other contracts ⁽¹⁾		1,083		1,204
Total	\$ 1,51	2,999	\$	1,395,345

⁽¹⁾ Consists of swap agreements entered into in conjunction with the sales of Visa Class B Shares.

11. Fair Value Option

We report our results to HSBC in accordance with HSBC Group accounting and reporting policies ("Group Reporting Basis"), which apply International Financial Reporting Standards ("IFRSs") as issued by the International Accounting Standards Board ("IASB"). We typically have elected to apply fair value option ("FVO") accounting to selected financial instruments to align the measurement attributes of those instruments under U.S. GAAP and the Group Reporting Basis and to simplify the accounting model applied to those financial instruments. We elected to apply FVO accounting to certain commercial loans held for sale, certain student loans, certain fixed-rate long-term debt issuances and all of our hybrid instruments, including structured notes and deposits. Excluding the fair value movement on fair value option liabilities attributable to our own credit spread, which is recorded in other comprehensive income (loss), changes in the fair value of fair value option assets and liabilities as well as the mark-to-market adjustment on the related derivatives and the net realized gains or losses on these derivatives are reported in gain on instruments designated at fair value and related derivatives in the consolidated statement of income.

Loans Held For Sale We elected to apply FVO accounting to certain commercial syndicated loans which are originated with the intent to sell and certain commercial loans that we purchased from the secondary market and hold as hedges against our exposure to certain total return swaps and include these loans as loans held for sale in the consolidated balance sheet. We also previously elected to apply FVO accounting to certain student loans (which were subsequently transferred to held for sale during 2021). These elections allow us to account for these loans at fair value which is consistent with the manner in which the instruments are managed. Where available, fair value is based on observable market pricing obtained from independent sources, relevant broker quotes or observed market prices of instruments with similar characteristics. Where observable market parameters are not available, fair value is determined based on contractual cash flows adjusted for estimates of prepayment rates, expected default rates and loss severity discounted at management's estimate of the expected rate of return required by market participants. We also consider loan-specific risk mitigating factors such as collateral arrangements in determining the fair value estimate. Interest from these loans is recorded as interest income in the consolidated statement of income. Because a substantial majority of the loans elected for the fair value option are floating-rate commercial loans, changes in their fair value are primarily attributable to changes in loan-specific credit risk factors. The components of gain (loss) related to loans

designated at fair value are summarized in the table below. At June 30, 2022 and December 31, 2021, no loans for which the fair value option has been elected were 90 days or more past due or in nonaccrual status.

Long-Term Debt (Own Debt Issuances) We elected to apply FVO accounting for certain fixed-rate long-term debt for which we had applied or otherwise would elect to apply fair value hedge accounting. The election allows us to achieve a similar accounting effect without having to meet the hedge accounting requirements. The own debt issuances elected under FVO are traded in secondary markets and, as such, the fair value is determined based on observed prices for the specific instruments. The observed market price of these instruments reflects the effect of changes to our own credit spreads and interest rates. Interest on the fixed-rate debt accounted for under FVO is recorded as interest expense in the consolidated statement of income. Excluding the fair value movement attributable to our own credit spread, the components of gain (loss) in the consolidated statement of income related to long-term debt designated at fair value are summarized in the table below.

Hybrid Instruments We elected to apply FVO accounting to all of our hybrid instruments issued, including structured notes and deposits. The valuation of the hybrid instruments is predominantly driven by the derivative features embedded within the instruments and our own credit risk. Cash flows of the hybrid instruments in their entirety, including the embedded derivatives, are discounted at an appropriate rate for the applicable duration of the instrument adjusted for our own credit spreads. The credit spreads applied to structured notes are determined with reference to our own debt issuance rates observed in the primary and secondary markets, internal funding rates, and structured note rates in recent executions while the credit spreads applied to structured deposits are determined using market rates currently offered on comparable deposits with similar characteristics and maturities. Interest on this debt is recorded as interest expense in the consolidated statement of income. Excluding the fair value movement attributable to our own credit spread, the components of gain (loss) in the consolidated statement of income related to hybrid instruments designated at fair value are summarized in the table below.

The following table summarizes the fair value and unpaid principal balance for items we account for under FVO:

	Fair Value	F	Unpaid Principal Balance	Over U Pr	ir Value r (Under) Inpaid rincipal alance
Commercial loans held for sale Fixed rate long-term debt Hybrid instruments: Structured deposits Structured notes At December 31, 2021 Student loans held for sale Commercial loans held for sale Fixed rate long-term debt Hybrid instruments: Structured deposits		(in	millions)		
At June 30, 2022					
Student loans held for sale	\$ 22	\$	24	\$	(2)
Commercial loans held for sale	172		183		(11)
Fixed rate long-term debt	757		741		16
Hybrid instruments:					
Structured deposits	2,018		1,932		86
Structured notes	6,363		6,809		(446)
At December 31, 2021					
Student loans held for sale	\$ 25	\$	28	\$	(3)
Commercial loans held for sale	23		23		
Fixed rate long-term debt	945		741		204
Hybrid instruments:					
Structured deposits	2,749		2,465		284
Structured notes	7,997		6,834		1,163

Components of Gain on Instruments Designated at Fair Value and Related Derivatives The following table summarizes the components of gain on instruments designated at fair value and related derivatives reflected in the consolidated statement of income for the three and six months ended June 30, 2022 and 2021:

	ns Held r Sale	Long-Term Debt			Hybrid struments		Total
			(in m	illion	s)		
Three Months Ended June 30, 2022							
Interest rate and other components ⁽¹⁾	_	\$	65	\$	936	\$	1,001
Credit risk component ⁽²⁾⁽³⁾	 (27)						(27)
Total mark-to-market on financial instruments designated at fair value	(27)		65		936		974
Mark-to-market on related derivatives	_		(70)		(893)		(963)
Net realized gain on related long-term debt derivatives	 		8				8
Gain (loss) on instruments designated at fair value and related derivatives	\$ (27)	\$	3	\$	43	\$	19
Three Months Ended June 30, 2021							
Interest rate and other components ⁽¹⁾		\$	(41)	\$	(401)	\$	(442)
Credit risk component ⁽²⁾	_						
Total mark-to-market on financial instruments designated at fair value	_		(41)		(401)		(442)
Mark-to-market on related derivatives	_		42		397		439
Net realized gain on related long-term debt derivatives			10				10
Gain (loss) on instruments designated at fair value and related derivatives	\$ 	\$	11	\$	(4)	\$	7
Six Months Ended June 30, 2022							
Interest rate and other components ⁽¹⁾	\$ _	\$	139	\$	1,349	\$	1,488
Credit risk component ⁽²⁾⁽³⁾	(35)				_		(35)
Total mark-to-market on financial instruments designated at fair value	 (35)		139		1,349		1,453
Mark-to-market on related derivatives	_		(155)		(1,290)		(1,445)
Net realized gain on related long-term debt derivatives	_		17		_		17
Gain (loss) on instruments designated at fair value and related derivatives	\$ (35)	\$	1	\$	59	\$	25
Six Months Ended June 30, 2021							
Interest rate and other components ⁽¹⁾	\$ 	\$	59	\$	(853)	\$	(794)
Credit risk component ⁽²⁾	1	•		•	_	•	1
Total mark-to-market on financial instruments designated at fair value	1		59		(853)	_	(793)
Mark-to-market on related derivatives			(66)		865		799
Net realized gain on related long-term debt derivatives			19		_		19
Gain (loss) on instruments designated at fair value and related derivatives	 1	\$	12	\$	12	\$	25

⁽¹⁾ As it relates to hybrid instruments, interest rate and other components primarily includes interest rate, foreign exchange and equity contract risks.

⁽²⁾ The fair value movement on fair value option liabilities attributable to our own credit spread is recorded in other comprehensive income (loss).

During the three and six months ended June 30, 2022, the losses in the credit risk component for loans held for sale was attributable to the widening of credit spreads associated with certain commercial loans which were impacted by the weakening of market conditions.

12. Accumulated Other Comprehensive Income (Loss)

Accumulated other comprehensive income (loss) includes certain items that are reported directly within a separate component of equity. The following table presents changes in accumulated other comprehensive income (loss) balances:

Three Months Ended June 30,		2022	2	021
		(in mi	illions))
Inrealized gains (losses) on investment securities:				
Balance at beginning of period	···· \$	(1,108)	\$	119
Other comprehensive income (loss) for period:				
Net unrealized gains (losses) arising during period, net of tax of \$(182) million and \$21 million, respectively		(573)		63
Reclassification adjustment for gains realized in net income, net of tax of \$(2) million and \$(4) million, respectively(1)		(7)		(14)
Provision for credit losses realized in net income, net of tax of less than \$1 million and nil, respectively ⁽²⁾		2		_
Amortization of net unrealized losses on securities transferred from available-for-sale to held-to-maturity realized in net income, net of tax of \$1 million and \$1 million, respectively ⁽³⁾		4		4
Total other comprehensive income (loss) for period		(574)		53
Salance at end of period		(1,682)		172
Inrealized gains (losses) on fair value option liabilities attributable to our own credit spread:				
Balance at beginning of period		56		5
Other comprehensive income (loss) for period:				
Net unrealized gains arising during period, net of tax of \$16 million and \$3 million, respectively		51		10
Total other comprehensive income for period		51		10
Balance at end of period		107		15
Inrealized gains (losses) on derivatives designated as cash flow hedges:				
Balance at beginning of period		(290)		(91)
Other comprehensive income (loss) for period:				
Net unrealized losses arising during period, net of tax of \$(19) million and \$(2) million, respectively		(63)		(6)
Reclassification adjustment for (gains) losses realized in net income, net of tax of less than \$1 million and \$(1) million, respectively.		1		(3)
Total other comprehensive loss for period		(62)		(9)
Salance at end of period		(352)		(100)
ension and postretirement benefit liability:				
Salance at beginning of period		(3)		(7)
Other comprehensive income (loss) for period:		. ,		
Change in unfunded pension and postretirement liability, net of tax of nil and less than \$1 million, respectively		_		1
Total other comprehensive income for period				1
Salance at end of period		(3)		(6)
otal accumulated other comprehensive income (loss) at end of period	···· \$	(1,930)	\$	81

Six Months Ended June 30,		2022	202	21
		(in mi	llions)	
Unrealized gains (losses) on investment securities:				
Balance at beginning of period	····· \$	(65)	\$	750
Other comprehensive income (loss) for period:				
Net unrealized losses arising during period, net of tax of \$(509) million and \$(174) million, respectively		(1,602)		(550)
Reclassification adjustment for gains realized in net income, net of tax of \$(7) million and \$(11) million, respectively ⁽¹⁾		(22)		(36)
Provision for credit losses realized in net income, net of tax of less than \$1 million and nil, respectively ⁽²⁾		1		_
Amortization of net unrealized losses on securities transferred from available-for-sale to held-to-maturity realized in net income, net of tax of \$2 million and \$2 million, respectively ⁽³⁾	·····	6		8
Total other comprehensive loss for period		(1,617)		(578)
Balance at end of period		(1,682)		172
Unrealized gains (losses) on fair value option liabilities attributable to our own credit spread:				
Balance at beginning of period		27		15
Other comprehensive income (loss) for period:				
Net unrealized gains arising during period, net of tax of \$25 million and nil, respectively		80		_
Total other comprehensive income for period		80		
Balance at end of period		107		15
Unrealized gains (losses) on derivatives designated as cash flow hedges:				
Balance at beginning of period		(138)		(79)
Other comprehensive income (loss) for period:				
Net unrealized losses arising during period, net of tax of \$(67) million and \$(6) million, respectively		(216)		(19)
Reclassification adjustment for (gains) losses realized in net income, net of tax of less than \$1 million and \$(1) million, respectively ⁽⁴⁾		2		(2)
Total other comprehensive loss for period		(214)		(21)
Balance at end of period		(352)		(100)
Pension and postretirement benefit liability:				
Balance at beginning of period		(3)		(7)
Other comprehensive income (loss) for period:		()		. ,
Change in unfunded pension and postretirement liability, net of tax of nil and less than \$1 million, respectively				1
Total other comprehensive income for period				1
Balance at end of period		(3)		(6)
Total accumulated other comprehensive income (loss) at end of period	<u> </u>	(1,930)	\$	81

⁽¹⁾ Amount reclassified to net income is included in other securities gains, net in our consolidated statement of income.

⁽²⁾ Changes in the allowance for credit losses on securities available-for-sale are included in the provision for credit losses in our consolidated statement of income.

⁽³⁾ Amount amortized to net income is included in interest income in our consolidated statement of income. During 2014, we transferred securities from available-for-sale to held-to-maturity. At the date of transfer, AOCI included net pretax unrealized losses related to the transferred securities which are being amortized over the remaining contractual life of each security as an adjustment of yield in a manner consistent with the amortization of any premium or discount.

⁽⁴⁾ Amount reclassified to net income is included in net interest income in our consolidated statement of income.

13. Fee Income from Contracts with Customers

The following table summarizes fee income from contracts with customers disaggregated by type of activity, as well as a reconciliation to total other revenues, during the three and six months ended June 30, 2022 and 2021. See Note 23, "Fee Income from Contracts with Customers," in our 2021 Form 10-K for a description of the various types of fee-based activities and how revenue associated with these activities is recognized. There have been no significant changes in these activities since December 31, 2021.

	Th	ree Mo Jun	nths l	Ended	S	Six Months Ended June 30,			
	2	022	022 202		2022		2	2021	
				(in m	illions	s)			
Credit card fees, net	\$	12	\$	13	\$	27	\$	23	
Trust and investment management fees		34		26		60		55	
Other fees and commissions:									
Account services		70		73		137		143	
Credit facilities		71		89		171		172	
Other fees		19		9		30		21	
Total other fees and commissions		160		171		338		336	
Servicing and other fees from HSBC affiliates		87		70		188		153	
Insurance ⁽¹⁾		1		2		2		3	
Total fee income from contracts with customers		294		282		615		570	
Other non-fee revenues		49		22		214		118	
Total other revenues ⁽²⁾	\$	343	\$	304	\$	829	\$	688	

⁽¹⁾ Included within other income (loss) in the consolidated statement of income.

Credit card fees, net We recognized interchange fees of \$29 million and \$54 million during the three and six months ended June 30, 2022, respectively, compared with \$26 million and \$44 million during the three and six months ended June 30, 2021, respectively. Credit card rewards program costs totaled \$15 million and \$30 million during the three and six months ended June 30, 2022, respectively, compared with \$13 million and \$24 million during the three and six months ended June 30, 2021, respectively.

Deferred Fee Income

Information related to deferred fee income on loan commitments, revolving credit facilities and standby letters of credit is included in Note 18, "Guarantee Arrangements, Pledged Assets and Repurchase Agreements," and Note 19, "Fair Value Measurements." Excluding these items, we had deferred fee income related to certain account service fees that are paid upfront and recognized over the service period and annual fees on credit cards which collectively was \$3 million and \$4 million at June 30, 2022 and December 31, 2021, respectively. We expect to recognize this revenue over a remaining period of one year or less.

Other than trust and investment management fees as discussed in our 2021 Form 10-K, we do not use significant judgments in the determination of the amount and timing of fee income from contracts with customers. Additionally, costs to obtain or fulfill contracts with customers were immaterial.

⁽²⁾ See Note 15, "Business Segments," for a reconciliation of total other revenues on a U.S. GAAP basis to other operating income for each business segment under the Group Reporting Basis.

14. Related Party Transactions

In the normal course of business, we conduct transactions with HSBC and its subsidiaries. HSBC policy requires that these transactions occur at prevailing market rates and terms and, where applicable, these transactions are compliant with United States banking regulations. All extensions of credit by (and certain credit exposures of) HSBC Bank USA, National Association (together with its subsidiaries, "HSBC Bank USA") to other HSBC affiliates (other than Federal Deposit Insurance Corporation insured banks) are legally required to be secured by eligible collateral. The following tables present related party balances and the income (expense) generated by related party transactions:

	ne 30, 2022	Dec	ember 31, 2021
	(in m	illion	s)
Assets:			
Cash and due from banks	\$ 219	\$	300
Interest bearing deposits with banks	214		59
Securities purchased under agreements to resell ⁽¹⁾	845		594
Trading assets	46		119
Loans	3,457		2,793
Other ⁽²⁾	343		401
Total assets	\$ 5,124	\$	4,266
Liabilities:			
Deposits	\$ 13,003	\$	9,137
Trading liabilities ⁽³⁾	476		130
Short-term borrowings	833		309
Long-term debt	5,510		5,511
Other ⁽²⁾	504		277
Total liabilities	\$ 20,326	\$	15,364

Reflects purchases of securities under which other HSBC affiliates have agreed to repurchase.

Other assets and other liabilities primarily consist of derivative balances associated with hedging activities and other miscellaneous account receivables and payables.

⁽³⁾ The increase in trading liabilities at June 30, 2022 primarily reflects an increase in borrowing of gold inventory from HSBC Bank plc to support client activity levels.

	Thr	ee Mor June		Ended	S	ix Mont June		
	20	22	2	021	2	2022	2	2021
				(in millions)				
Income (Expense):								
Interest income	\$	16	\$	7	\$	22	\$	14
Interest expense		(60)		(60)		(112)		(133)
Net interest expense		(44)		(53)		(90)		(119)
Trading revenue (expense)	1.	,330	(]	1,121)		2,605		(990)
Servicing and other fees from HSBC affiliates:								, ,
HSBC Bank plc		48		32		108		80
HSBC Markets (USA) Inc. ("HMUS")		17		26		42		48
Other HSBC affiliates		22		12		38		25
Total servicing and other fees from HSBC affiliates		87		70		188		153
Gain (loss) on instruments designated at fair value and related derivatives		(894)		397	(1,290)		865
Support services from HSBC affiliates:								
HTSU	((244)		(268)		(504)		(512)
HMUS		(46)		(18)		(83)		(46)
Other HSBC affiliates	((129)		(106)		(250)		(201)
Total support services from HSBC affiliates		(419)		(392)		(837)		(759)
Rental income from HSBC affiliates, net ⁽¹⁾		9		7		19		20
Stock based compensation expense ⁽²⁾		(3)		(5)		(7)		(11)

⁽¹⁾ We receive rental income from our affiliates, and in some cases pay rental expense to our affiliates, for certain office space. Net rental income from our affiliates is recorded as a component of occupancy expense, net in our consolidated statement of income.

Funding Arrangements with HSBC Affiliates:

We use HSBC affiliates to fund a portion of our borrowing and liquidity needs. At both June 30, 2022 and December 31, 2021, long-term debt with affiliates reflected \$5.5 billion of borrowings from HSBC North America. The outstanding balances include \$2.0 billion of fixed-rate senior debt which matures in June 2025, \$2.0 billion of fixed-rate senior debt which matures in September 2025 and \$1.5 billion of fixed-rate senior debt which matures in June 2030.

We have a \$4.0 billion uncommitted line of credit with HSBC North America. The available borrowing capacity under this facility is fungible between HSBC USA, HSBC Securities (USA) Inc. ("HSI") and HSBC North America, but total borrowings cannot collectively exceed \$4.0 billion at any time. We had no outstanding borrowing under this credit facility at either June 30, 2022 or December 31, 2021.

We have also incurred short-term borrowings with certain affiliates. In addition, certain affiliates have placed deposits with us.

Lending and Derivative Related Arrangements Extended to HSBC Affiliates:

At June 30, 2022 and December 31, 2021, we had the following loan balances outstanding with HSBC affiliates:

	J	une 30, 2022	Dec	ember 31, 2021
		(in m	illions	s)
HMUS and subsidiaries	\$	2,196	\$	1,576
HSBC North America		1,250		1,000
Other short-term affiliate lending		11		217
Total loans	\$	3,457	\$	2,793

HMUS and subsidiaries We have extended loans and lines of credit, some of them uncommitted, to HMUS and its subsidiaries in the amount of \$11.9 billion at both June 30, 2022 and December 31, 2021, of which \$2.2 billion and \$1.6 billion,

⁽²⁾ Employees may participate in one or more stock compensation plans sponsored by HSBC. These expenses are included in salaries and employee benefits in our consolidated statement of income. Certain employees are also eligible to participate in a defined benefit pension plan and other postretirement plans sponsored by HSBC North America which are discussed in Note 22, "Pension and Other Postretirement Benefits," in our 2021 Form 10-K.

respectively, was outstanding. The maturities of the outstanding balances range from overnight to three months. Each borrowing is re-evaluated prior to its maturity date and either extended or allowed to mature.

HSBC North America Under the \$4.0 billion uncommitted fungible line of credit with HSBC North America as discussed above, there was \$1.3 billion and \$1.0 billion outstanding at June 30, 2022 and December 31, 2021, respectively. The outstanding balance includes \$1.0 billion that matures in September 2022 and \$250 million that matures in October 2022.

We have extended lines of credit to various other HSBC affiliates totaling \$4.0 billion which did not have any outstanding balances at either June 30, 2022 or December 31, 2021.

Other short-term affiliate lending In addition to loans and lines extended to affiliates discussed above, from time to time we may extend loans to affiliates which are generally short term in nature. At June 30, 2022 and December 31, 2021, there were \$11 million and \$217 million, respectively, of these loans outstanding.

Derivative contracts As part of a global HSBC strategy to offset interest rate or other market risks associated with certain securities, debt issues and derivative contracts with unaffiliated third parties, we routinely enter into derivative transactions with HSBC Bank plc and other HSBC affiliates. The notional value of derivative contracts related to these transactions was approximately \$888.8 billion and \$753.2 billion at June 30, 2022 and December 31, 2021, respectively. The net credit exposure (defined as the net fair value of derivative assets and liabilities, including any collateral received) related to the contracts was approximately \$53 million and \$127 million at June 30, 2022 and December 31, 2021, respectively. We account for these transactions on a mark to market basis, with the change in value of contracts with HSBC affiliates substantially offset by the change in value of related contracts entered into with unaffiliated third parties.

Services Provided Between HSBC Affiliates:

Under multiple service level agreements, we provide services to and receive services from various HSBC affiliates. These activities are summarized in Note 24, "Related Party Transactions," in our 2021 Form 10-K. There have been no significant changes in these activities since December 31, 2021.

Other Transactions with HSBC Affiliates:

At both June 30, 2022 and December 31, 2021, we had \$1,265 million of non-cumulative preferred stock issued and outstanding to HSBC North America. See Note 19, "Preferred Stock," in our 2021 Form 10-K for additional details.

15. Business Segments

We have distinct businesses, which are aligned with HSBC's global business strategy: Wealth and Personal Banking ("WPB"), Commercial Banking ("CMB"), and Global Banking and Markets ("GBM"). These businesses and a Corporate Center ("CC") serve as our reportable segments with the exception of GBM. Our GBM business is comprised of three distinct operating segments: Global Banking ("GB"), Markets and Securities Services ("MSS"), and Global Banking and Markets Other ("GBM Other"), which are separately reported as discussed further below, effective as of the fourth quarter of 2021 for all periods presented.

The following table summarizes the impact of this change on reported segment profit (loss) before tax, total assets and total deposits as of and for the three and six months ended June 30, 2021:

	Previously Reported	Aft	er Reporting Changes
	(in m	illions)
Segment profit (loss) before tax during the three months ended June 30, 2021:			
GBM	\$ 155		NSR
GB	 NSR	\$	168
MSS	 NSR		(12)
GBM Other	 NSR		(1)
Segment profit (loss) before tax during the six months ended June 30, 2021:			
GBM	\$ 346		NSR
GB	 NSR	\$	312
MSS	 NSR		36
GBM Other	 NSR		(2)
Segment total assets at June 30, 2021:			
GBM	\$ 105,521		NSR
GB	 NSR	\$	9,851
MSS	 NSR		50,626
GBM Other ⁽¹⁾	 NSR		45,044
Segment total deposits at June 30, 2021:			
GBM	\$ 49,322		NSR
GB	 NSR	\$	46,244
MSS	 NSR		2,170
GBM Other	 NSR		908

NSR Not Separately Reported

There have been no changes in the basis of our segmentation as compared with the presentation in our 2021 Form 10-K.

Net interest income of each segment represents the difference between actual interest earned on assets and interest incurred on liabilities of the segment, adjusted for a funding charge or credit that includes both interest rate and liquidity components. Segments are charged a cost to fund assets (e.g. customer loans) and receive a funding credit for funds provided (e.g. customer deposits) based on equivalent market rates that incorporate both repricing (interest rate risk) and tenor (liquidity) characteristics. The objective of these charges/credits is to transfer interest rate risk to one centralized unit in Markets Treasury. Markets Treasury income statement and balance sheet results are allocated to each of the global businesses based upon tangible equity levels and levels of any surplus liabilities.

Certain other revenue and operating expense amounts are also apportioned among the business segments based upon the benefits derived from this activity or the relationship of this activity to other segment activity. These inter-segment transactions have not been eliminated, and we generally account for them as if they were with third parties.

Our segment results are presented in accordance with HSBC Group accounting and reporting policies, which apply IFRSs as issued by the IASB. As a result, our segment results are prepared and presented using financial information prepared on the Group Reporting Basis as operating results are monitored and reviewed, trends are evaluated and decisions about allocating resources, such as employees, are primarily made on this basis. We continue, however, to monitor capital adequacy and report to regulatory agencies on a U.S. GAAP basis.

There have been no changes in the measurement of segment profit as compared with the presentation in our 2021 Form 10-K.

A summary of significant differences between U.S. GAAP and the Group Reporting Basis as they impact our results are summarized in Note 25, "Business Segments," in our 2021 Form 10-K. There have been no significant changes since December 31, 2021 in the differences between U.S. GAAP and the Group Reporting Basis impacting our results.

⁽¹⁾ Includes assets allocated from Markets Treasury.

The following table summarizes the results for each segment on a Group Reporting Basis, as well as provides a reconciliation of total results under the Group Reporting Basis to U.S. GAAP consolidated totals:

			Gr	oup	Reportin	g B	asis Cons	solid	ated Amo	ount	is								
							GBM												
	WPB		СМВ		GB		MSS		GBM Other		CC		Total	R	Group eporting Basis Adjust- ments ⁽¹⁾	R	Group eporting Basis declassi- cations ⁽²⁾		.S. GAAP nsolidated Totals
	,,,,,		025		0.0					ı mi	llions)								1000
Three Months Ended June 30,	2022								,		,								
Net interest income (expense)	\$ 185	\$	220	\$	106	\$	_	\$	1	\$	(12)	\$	500	\$	_	\$	32	\$	532
Other operating income	32		73		130		100		26		16		377		(11)		(23)		343
Total operating income	217		293		236		100		27		4		877		(11)		9		875
Expected credit losses /					(2)								4.5		•				
provision for credit losses	(6)	<u> </u>	220	_	(3)	_	100		1	_		_	46	_	23	_	<u> </u>	_	69
Operating expenses	223 197		239		239		100 80		26 21		4		831 671		(34)		9		806
Profit (loss) before income tax	\$ 26		143	<u> </u>	115	\$	20	\$	5	\$	(111)	\$	160	\$	(47)	•		\$	693
1 total (1055) before income tax	\$ 20		90	4	124	D	20	Þ		—	(111)	D	100	4	(47)		<u> </u>	D	113
Three Months Ended June 30,	2021																		
Net interest income (expense)		\$	190	\$	79	\$	12	\$	(5)	\$	(1)	\$	480	\$	9	\$	34	\$	523
Other operating income			72		113		41		29		18		344		(11)		(29)		304
Total operating income	276		262	_	192	_	53	_	24	_	17	_	824	_	(2)	_	5		827
Expected credit losses /															` `				
provision for credit losses	1		(12)	_	(72)	_				_		_	(83)		(146)	_			(229)
	275		274		264		53		24		17		907		144		5		1,056
Operating expenses	355	_	153	_	96	_	65		25	_	71	_	765	_	32	_	5	_	802
Profit (loss) before income tax	\$ (80)	\$	121	\$	168	\$	(12)	\$	(1)	\$	(54)	\$	142	\$	112	\$		\$	254
Sir Months Ended June 20, 202																			
Six Months Ended June 30, 202 Net interest income (expense)		\$	405	\$	184	\$	16	\$	(1)	\$	(13)	¢	945	\$	1	\$	63	\$	1,009
Other operating income		Ф	156	Ф	254	Ф	242	Ф	(1) 50	Ф	(13)	Ф	905	Ф	(31)	Ф	(45)	Ф	829
Total operating income	193		130	_	234	_	242	_	30	_		_	903	_	(31)	_	(43)	_	029
(expense)	549		561		438		258		49		(5)		1,850		(30)		18		1,838
Expected credit losses /																			
provision for credit losses	(2)	<u> </u>		_	(5)	_			1	_		_	21	_	59	_		_	80
0	551		534		443		258		48		(5)		1,829		(89)		18		1,758
Operating expenses	439	_	290	_	232	-	149	Φ.	45	-	181	<u> </u>	1,336	_	25	-	18	_	1,379
Profit (loss) before income tax Balances at end of period:	\$ 112	\$	244	\$	211	\$	109	\$	3	\$	(186)	\$	493	\$	(114)	\$		\$	379
Total assets	¢ 43 510	e	52 351	e	12 395	e	40 413	©	41 225	e	2 314	¢	102 108	©	(20,966)	e		C	171,232
Total loans, net	21,994	Ф	25,454		11,780	Ф	40,413	Ф	41,225 528	Þ	2,314	Ф	192,198 59,887	Ф	(890)	Ф	2,267	Э	61,264
Goodwill	21,994		358		11,700		131		320				35,887		100		2,207		458
Total deposits	37,395		40,170		41,995		1,193		1,409		_		122,162		(3,434)		8,535		127,263
•	Í		,		,		-,		-,				,		(-,)		0,000		,
Six Months Ended June 30, 202																			
Net interest income (expense)		\$		\$	162	\$		\$	(6)	\$	(2)	\$	973	\$	13	\$	68	\$	1,054
Other operating income			138	_	218	_	157	_	54	_	29	_	754		(6)	_	(60)	_	688
Total operating income	572		518		380		182		48		27		1,727		7		8		1,742
Expected credit losses / provision for credit losses	(1))	(50)		(122)		_		(1)		_		(174)		(282)		_		(456)
provision for credit losses	573	<u> </u>	568	_	502	_	182	_	49	_	27	_	1,901	_	289	_	8	_	2,198
Operating expenses	642		303		190		146		51		102		1,434		42		8		1,484
Profit (loss) before income tax	\$ (69)) \$		\$	312	\$		\$	(2)	\$	(75)	\$	467	\$	247	\$		\$	714
Balances at end of period:				=		=		=	(=)	_	(12)	_		Ť		_		<u></u>	,
Total assets	\$ 64,120	\$	43,360	\$	9,851	\$	50,626	\$	45,044	\$	1,820	\$	214,821	\$	(19,933)	\$	_	\$	194,888
Total loans, net	21,778	Ÿ	21,517	*	9,396	*	360	*	477	~		~	53,528	*	(2,261)	~	2,584	~	53,851
Goodwill			358				_		_		_		358		100		_		458
Total deposits	38,416		43,340		46,244		2,170		908		_		131,078		(4,213)		20,500		147,365
=	-		-		-		-						-		/		-		

16. Retained Earnings and Regulatory Capital Requirements

Bank dividends are one of the sources of funds used for payment of shareholder dividends and other HSBC USA cash needs. Approval from the Office of the Comptroller of the Currency ("OCC") is required if the total of all dividends HSBC Bank USA declares in any year exceeds the cumulative net income for that year, combined with the net income for the two preceding years reduced by dividends attributable to those years. OCC approval also is required for a reduction of permanent capital of HSBC Bank USA. Under a separate restriction, payment of dividends is prohibited in amounts greater than undivided profits then on hand, after deducting actual losses and bad debts. Bad debts are debts due and unpaid for a period of six months unless well secured, as defined, and in the process of collection.

We are subject to regulatory capital rules issued by U.S. banking regulators including Basel III (the "Basel III rule"). A bank or bank holding company's failure to meet minimum capital requirements can result in certain mandatory actions and possibly additional discretionary actions by its regulators. The following table summarizes the capital amounts and ratios of HSBC USA and HSBC Bank USA, calculated in accordance with the Basel III rule at June 30, 2022 and December 31, 2021:

	June 30, 2022				
Capital Amount	Well-Capitalized Ratio ⁽¹⁾	Actual Ratio	Capital Amount	Well-Capitalized Ratio ⁽¹⁾	Actual Ratio
		(dollars are	e in millions)		
\$ 15,729	4.5 % ⁽²⁾	15.0 %	\$ 15,341	4.5 % (2)	15.1 %
18,137	6.5	17.6	17,665	6.5	17.6
16,994	6.0	16.2	16,606	6.0	16.3
20,637	8.0	20.1	20,165	8.0	20.1
19,255	10.0	18.4	18,821	10.0	18.5
22,673	10.0	22.0	22,157	10.0	22.1
16,994	4.0 (2)	9.8	16,606	4.0 (2)	8.5
20,637	5.0	12.1	20,165	5.0	10.5
104,674			101,827		
102,877			100,363		
173,191			194,469		
170,178			192,521		
	\$ 15,729 18,137 16,994 20,637 19,255 22,673 16,994 20,637 104,674 102,877	Capital Amount Well-Capitalized Ratio ⁽¹⁾ \$ 15,729 4.5 % (2) 18,137 6.5 16,994 6.0 20,637 8.0 19,255 10.0 22,673 10.0 16,994 4.0 (2) 20,637 5.0 104,674 102,877 173,191	Capital Amount Well-Capitalized Ratio Actual Ratio \$ 15,729 4.5 % (2) 15.0 % (dollars are respectively) \$ 15,729 4.5 % (2) 15.0 % (dollars are respectively) \$ 15,729 4.5 % (2) 15.0 % (dollars are respectively) \$ 16,994 6.0 16.2 20,637 8.0 20.1 19,255 10.0 18.4 22,673 10.0 22.0 16,994 4.0 (2) 9.8 20,637 5.0 12.1 104,674 102,877 173,191 173,191	Capital Amount Well-Capitalized Ratio Actual Ratio Capital Amount \$ 15,729 4.5 % (2) 15.0 % \$ 15,341 18,137 6.5 17.6 17,665 16,994 6.0 16.2 16,606 20,637 8.0 20.1 20,165 19,255 10.0 18.4 18,821 22,673 10.0 22.0 22,157 16,994 4.0 (2) 9.8 16,606 20,637 5.0 12.1 20,165 104,674 101,827 100,363 173,191 194,469	Capital Amount Well-Capitalized Ratio Actual Amount Amount Capital Amount Amount Ratio Well-Capitalized Ratio (dollars are in millions) \$ 15,729 4.5 % (2) 15.0 % \$ 15,341 4.5 % (2) 18,137 6.5 17.6 17,665 6.5 16,994 6.0 16.2 16,606 6.0 20,637 8.0 20.1 20,165 8.0 19,255 10.0 18.4 18,821 10.0 22,673 10.0 22.0 22,157 10.0 16,994 4.0 (2) 9.8 16,606 4.0 (2) 20,637 5.0 12.1 20,165 5.0 5.0 104,674 101,827 100,363 100,363 194,469

⁽¹⁾ HSBC USA and HSBC Bank USA are categorized as "well-capitalized," as defined by their principal regulators. To be categorized as well-capitalized under regulatory guidelines, a banking institution must maintain capital equal to or in excess of the ratios reflected in the above table, and must not be subject to a directive, order, or written agreement to meet and maintain specific capital levels.

In response to the COVID-19 pandemic, the federal banking agencies issued a final rule that provided the option to transition in the regulatory capital impacts of the current expected credit loss accounting standard over a five-year period. In 2020, HSBC North America and HSBC Bank USA elected the five-year transition option and, as a result, our capital ratios were being reported in accordance with the transition rules in the final rule. However, as of December 31, 2021, there was no remaining

⁽¹⁾ Represents adjustments associated with differences between U.S. GAAP and the Group Reporting Basis.

⁽²⁾ Represents differences in financial statement presentation between U.S. GAAP and the Group Reporting Basis.

⁽²⁾ There are no common equity Tier 1 or Tier 1 leverage ratio components in the definition of a well-capitalized bank holding company. The ratios shown are the regulatory minimums.

⁽³⁾ Calculated using the Standardized Approach.

⁽⁴⁾ Represents the Tier 1 leverage ratio denominator which reflects quarterly average assets adjusted for amounts permitted to be deducted from Tier 1 capital.

impact to regulatory capital under the transition rules and, therefore, there are no amounts being phased into regulatory capital in subsequent periods.

17. Variable Interest Entities

In the ordinary course of business, we have organized special purpose entities ("SPEs") primarily to structure financial products to meet our clients' investment needs, to facilitate clients to access and raise financing from capital markets and to securitize financial assets held to meet our own funding needs. For disclosure purposes, we aggregate SPEs based on the purpose, risk characteristics and business activities of the SPEs. An SPE is a VIE if it lacks sufficient equity investment at risk to finance its activities without additional subordinated financial support or, as a group, the holders of the equity investment at risk lack either a) the power through voting or similar rights to direct the activities of the entity that most significantly impacts the entity's economic performance; or b) the obligation to absorb the entity's expected losses, the right to receive the expected residual returns, or both.

Variable Interest Entities We consolidate VIEs in which we hold a controlling financial interest as evidenced by the power to direct the activities of a VIE that most significantly impact its economic performance and the obligation to absorb losses of, or the right to receive benefits from, the VIE that could potentially be significant to the VIE and therefore are deemed to be the primary beneficiary. We take into account our entire involvement in a VIE (explicit or implicit) in identifying variable interests that individually or in the aggregate could be significant enough to warrant our designation as the primary beneficiary and hence require us to consolidate the VIE or otherwise require us to make appropriate disclosures. We consider our involvement to be potentially significant where we, among other things, (i) enter into derivative contracts to absorb the risks and benefits from the VIE or from the assets held by the VIE; (ii) provide a financial guarantee that covers assets held or liabilities issued by a VIE; (iii) sponsor the VIE in that we design, organize and structure the transaction; and (iv) retain a financial or servicing interest in the VIE.

We are required to evaluate whether to consolidate a VIE when we first become involved and on an ongoing basis. In almost all cases, a qualitative analysis of our involvement in the entity provides sufficient evidence to determine whether we are the primary beneficiary. In rare cases, a more detailed analysis to quantify the extent of variability to be absorbed by each variable interest holder is required to determine the primary beneficiary.

Consolidated VIEs The following table summarizes assets and liabilities related to our consolidated VIEs at June 30, 2022 and December 31, 2021 which are consolidated on our balance sheet. Assets and liabilities exclude intercompany balances that eliminate in consolidation.

	June 3	0, 2022			Decembe	er 31, 2021		
	 solidated Assets		olidated bilities		solidated Assets		olidated bilities	
			(in mi	illions)				
Low income housing limited liability partnership:								
Other assets	\$ 44	\$	_	\$	54	\$	_	
Interest, taxes and other liabilities			25				7	
Subtotal	44		25		54		7	
Venture debt financing entity:								
Loans	118		_		46			
Other assets	2		_		1			
Interest, taxes and other liabilities	_		3				2	
Subtotal	120		3		47		2	
Total	\$ 164	\$	28	\$	101	\$	9	

Low income housing limited liability partnership In 2009, all low income housing investments held by us at the time were transferred to a Limited Liability Partnership ("LLP") in exchange for debt and equity while a third party invested cash for an equity interest that was mandatorily redeemable. The LLP was created in order to ensure the utilization of future tax benefits from these low income housing tax projects. The LLP was deemed to be a VIE as it does not have sufficient equity investment at risk to finance its activities. Upon entering into this transaction, we concluded that we were the primary beneficiary of the LLP due to the nature of our continuing involvement and, as a result, we consolidated the LLP and reported the equity interest issued to the third party investor in long-term debt and the assets of the LLP in other assets on our consolidated balance sheet. The investments held by the LLP represent equity investments in the underlying low income housing partnerships. The LLP does not consolidate the underlying partnerships because it does not have the power to direct the activities of the partnerships

that most significantly impact the economic performance of the partnerships. In 2019, the equity interest issued to the third party investor was redeemed.

We amortize our low income housing investments in proportion to the allocated tax benefits under the proportional amortization method and present the associated tax benefits net of investment amortization in income tax expense.

Ventures debt financing entity HSBC USA has organized and provided equity financing to HSBC Ventures USA Inc. ("HSBC Ventures"), an entity designed to provide debt financing to venture capital-backed companies generally in the form of term or revolving loans, or loan commitments. Given the generally early stage and development of the companies, the loans are typically collateralized by all of the company's assets and intellectual property, or by specific items such as receivables or equipment. The loan terms may, at times, also include warrants for company stock granting HSBC Ventures a share of the financial returns in case of a positive realization event. HSBC USA also provides debt financing to HSBC Ventures in the form of loans on an as-needed basis. HSBC Ventures is a VIE because it does not have sufficient equity investment at risk to finance its activities. As the sole investor, HSBC USA is considered to be the primary beneficiary because it has the obligation to absorb losses and the right to receive benefits that could be potentially significant to HSBC Ventures. As a result, we consolidate HSBC Ventures and report the third party loans and warrants, if any, on our consolidated balance sheet.

Unconsolidated VIEs We also have variable interests in other VIEs that are not consolidated because we are not the primary beneficiary. The following table provides additional information on these unconsolidated VIEs, including the variable interests held by us and our maximum exposure to loss arising from our involvement in these VIEs, at June 30, 2022 and December 31, 2021:

]	tal Assets Held by onsolidated	Carrying Value of Variable Interests Held Reported as					Maximum - Exposure			
	o ne	VIEs	Assets Liabilities					to Loss			
				(in mi	llions)						
At June 30, 2022											
Limited partnership investments	\$	6,404	\$	846	\$	407	\$	846			
Asset-backed financing SPE		973		812				812			
Total	\$	7,377	\$	1,658	\$	407	\$	1,658			
At December 31, 2021											
Limited partnership investments	\$	6,700	\$	825	\$	407	\$	825			
Asset-backed financing SPE		1,033		873				873			
Total	\$	7,733	\$	1,698	\$	407	\$	1,698			

Information on the types of VIEs with which we are involved, the nature of our involvement and the variable interests held in those entities is presented below.

Limited partnership investments We invest as a limited partner in partnerships that operate qualified affordable housing, renewable energy and community development projects. The returns of these investments are generated primarily from the tax benefits, including Federal tax credits and tax deductions from operating losses in the project companies. In addition, some of the investments help us comply with the Community Reinvestment Act. Certain limited partnership structures are considered to be VIEs because either (a) they do not have sufficient equity investment at risk or (b) the limited partners with equity at risk do not have substantive kick-out rights through voting rights or substantive participating rights over the general partner. As a limited partner, we are not the primary beneficiary of the VIEs and do not consolidate them. Our investments in these partnerships are recorded in other assets on the consolidated balance sheet. The maximum exposure to loss shown in the table above represents our recorded investments as well as any outstanding funding commitments extended to the partnerships.

Asset-backed financing SPE During 2021, we sold a portfolio of commercial real estate loans and provided a loan to the third-party buyer sponsored SPE for a portion of the purchase price. The SPE is an asset-backed financing entity that issued residual beneficial interests to third-party investors. The loan we provided to the SPE is senior to the residual beneficial interests and is secured by the commercial real estate loans held by the SPE. Cash flows from the commercial real estate loans will be used first to settle the interest and principal payments of the loan, with any excess cash flows attributable to the residual interest holders. The SPE is a VIE in which we have a variable interest through our ownership of the loan, which is an arm's-length transaction. We do not have the power to direct the activities that most significantly impact the VIE's economic performance. In addition, the VIE is designed such that the residual interest holders absorb any expected loss and/or benefit that could be potentially significant to the VIE and, therefore, we are not the primary beneficiary. The maximum exposure to loss shown in the table above represents our recorded investment in the loan without consideration of any recovery benefits from the value of the commercial real estate loans.

Third-party sponsored securitization entities We invest in asset-backed securities issued by third-party sponsored securitization entities which may be considered VIEs. The investments are transacted at arm's-length and decisions to invest are based on a credit analysis of the underlying collateral assets or the issuer. We are a passive investor in these issuers and do not have the power to direct the activities of these issuers. As such, we do not consolidate these securitization entities. Additionally, we do not have other involvements in servicing or managing the collateral assets or provide financial or liquidity support to these issuers which potentially give rise to risk of loss exposure. These investments are an integral part of the disclosure in Note 4, "Trading Assets and Liabilities," Note 5, "Securities," and Note 19, "Fair Value Measurements," and, therefore, are not disclosed in this note to avoid redundancy.

In addition to the above, we have established and manage money market funds and non-money market mutual funds to provide customers with investment opportunities. As fund manager, we may be entitled to receive management fees based on the assets under management. We do not consolidate the funds because we do not absorb the majority of the expected future risk associated with the fund's assets, including interest rate, liquidity, credit and other relevant risks that are expected to affect the value of the assets.

18. Guarantee Arrangements, Pledged Assets and Repurchase Agreements

Guarantee Arrangements As part of our normal operations, we enter into credit derivatives and various off-balance sheet guarantee arrangements with affiliates and third parties. These arrangements arise principally in connection with our lending and client intermediation activities and include standby letters of credit and certain credit derivative transactions. The contractual amounts of these arrangements represent our maximum possible credit exposure in the event that we are required to fulfill the maximum obligation under the contractual terms of the guarantee.

The following table presents total carrying value and contractual amounts of our sell protection credit derivatives and major off-balance sheet guarantee arrangements at June 30, 2022 and December 31, 2021. Following the table is a description of the various arrangements.

	June 30, 2022					Decembe	er 31, 2021		
	Notional / Maximum Carrying Exposure to Value Loss			Maximum Carrying Exposure to Carrying			N	otional / laximum posure to Loss	
				(in mi	illions	s)			
Credit derivatives ⁽¹⁾⁽²⁾	\$	(52)	\$	3,695	\$	7	\$	2,174	
Financial standby letters of credit, net of participations ⁽³⁾⁽⁴⁾		_		5,484				5,339	
Performance standby letters of credit, net of participations ⁽³⁾⁽⁴⁾		_		3,045				2,961	
Total	\$	(52)	\$	12,224	\$	7	\$	10,474	

⁽¹⁾ Includes \$1,883 million and \$1,591 million of notional issued for the benefit of HSBC affiliates at June 30, 2022 and December 31, 2021, respectively.

Credit-Risk Related Guarantees

Credit derivatives Credit derivatives are financial instruments that transfer the credit risk of a reference obligation from the credit protection buyer to the credit protection seller who is exposed to the credit risk without buying the reference obligation. We sell credit protection on underlying reference obligations (such as loans or securities) by entering into credit derivatives, primarily in the form of credit default swaps, with various institutions. We account for all credit derivatives at fair value. Where we sell credit protection to a counterparty that holds the reference obligation, the arrangement is effectively a financial guarantee on the reference obligation. Under a credit derivative contract, the credit protection seller will reimburse the credit protection buyer upon occurrence of a credit event (such as bankruptcy, insolvency, restructuring or failure to meet payment obligations when due) as defined in the derivative contract, in return for a periodic premium. Upon occurrence of a credit event, we will pay the counterparty the stated notional amount of the derivative contract and receive the underlying reference obligation. The recovery value of the reference obligation received could be significantly lower than its notional principal amount when a credit event occurs.

⁽²⁾ For credit derivatives, the maximum loss is represented by the notional amounts without consideration of mitigating effects from collateral or recourse arrangements.

⁽³⁾ Includes \$1,981 million and \$1,969 million of both financial and performance standby letters of credit issued for the benefit of HSBC affiliates at June 30, 2022 and December 31, 2021, respectively.

⁽⁴⁾ For standby letters of credit, maximum loss represents losses to be recognized assuming the letters of credit have been fully drawn and the obligors have defaulted with zero recovery.

Certain derivative contracts are subject to master netting arrangements and related collateral agreements. A party to a derivative contract may demand that the counterparty post additional collateral in the event its net exposure exceeds certain predetermined limits and when the credit rating falls below a certain grade. We set the collateral requirements by counterparty such that the collateral covers various transactions and products, and is not allocated to specific individual contracts.

We manage our exposure to credit derivatives using a variety of risk mitigation strategies where we enter into offsetting hedge positions or transfer the economic risks, in part or in entirety, to investors through the issuance of structured credit products. We actively manage the credit and market risk exposure in the credit derivative portfolios on a net basis and, as such, retain no or a limited net position at any time. The following table summarizes our net credit derivative positions at June 30, 2022 and December 31, 2021:

		June 30	2022	2		December	31, 2021			
	Carrying / Fair Value			ying / Fair Value Notional			N	lotional		
				(in m	illions)					
Sell-protection credit derivative positions	- \$	(52)	\$	3,695	\$	7	\$	2,174		
Buy-protection credit derivative positions		44		7,924		(62)		4,849		
Net position ⁽¹⁾	- \$	(8)	\$	4,229	\$	(55)	\$	2,675		

Positions are presented net in the table above to provide a complete analysis of our risk exposure and depict the way we manage our credit derivative portfolio. The offset of the sell-protection credit derivatives against the buy-protection credit derivatives may not be legally binding in the absence of master netting agreements with the same counterparty. Furthermore, the credit loss triggering events for individual sell-protection credit derivatives may not be the same or occur in the same period as those of the buy-protection credit derivatives thereby not providing an exact offset.

Standby letters of credit A standby letter of credit is issued to a third party for the benefit of a client and is a guarantee that the client will perform or satisfy certain obligations under a contract. It irrevocably obligates us to pay a specified amount to the third party beneficiary if the client fails to perform the contractual obligation. We issue two types of standby letters of credit: performance and financial. A performance standby letter of credit is issued where the client is required to perform some non-financial contractual obligation, such as the performance of a specific act, whereas a financial standby letter of credit is issued where the client's contractual obligation is of a financial nature, such as the repayment of a loan or debt instrument.

The issuance of a standby letter of credit is subject to our credit approval process and collateral requirements. We charge fees for issuing letters of credit commensurate with the client's credit evaluation and the nature of any collateral. Included in other liabilities are deferred fees on standby letters of credit amounting to \$50 million and \$51 million at June 30, 2022 and December 31, 2021, respectively. Also included in other liabilities is an allowance for credit losses on unfunded standby letters of credit of \$12 million and \$14 million at June 30, 2022 and December 31, 2021, respectively.

The following table summarizes the credit ratings related to guarantees including the ratings of counterparties against which we sold credit protection and financial standby letters of credit at June 30, 2022 as an indicative proxy of payment risk:

	Average		Credit Ratings of the Obligors							
Notional/Contractual Amounts	Life (in years)	Investment Non-Investment Grade Grade				Life Investment Non-Investment				Total
		(dollars are in millions)								
Sell-protection Credit Derivatives ⁽¹⁾										
Single name credit default swaps (CDS)	2.1	\$	966	\$	704	\$	1,670			
Index credit derivatives	6.6		766		1,259		2,025			
Subtotal			1,732		1,963		3,695			
Standby Letters of Credit ⁽²⁾	1.1		6,575		1,954		8,529			
Total		\$	8,307	\$	3,917	\$	12,224			

⁽¹⁾ The credit ratings in the table represent external credit ratings for classification as investment grade and non-investment grade.

Our internal credit ratings are determined based on HSBC's risk rating systems and processes which assign a credit grade based on a scale which ranks the risk of default of a client. The credit grades are assigned and used for managing risk and determining level of credit exposure appetite based on the client's operating performance, liquidity, capital structure and debt service ability. In addition, we also incorporate subjective judgments into the risk rating process concerning such things as industry trends, comparison of performance to industry peers and perceived quality of management. We compare our internal risk ratings to

⁽²⁾ External ratings for most of the obligors are not available. Presented above are the internal credit ratings which are developed using similar methodologies and rating scale equivalent to external credit ratings for purposes of classification as investment grade and non-investment grade.

outside external rating agency benchmarks, where possible, at the time of formal review and regularly monitor whether our risk ratings are comparable to the external ratings benchmark data.

A non-investment grade rating of a referenced obligor has a negative impact to the fair value of the credit derivative and increases the likelihood that we will be required to perform under the credit derivative contract. We employ market-based parameters and, where possible, use the observable credit spreads of the referenced obligors as measurement inputs in determining the fair value of the credit derivatives. We believe that such market parameters are more indicative of the current status of payment/performance risk than external ratings by the rating agencies which may not be forward-looking in nature and, as a result, lag behind those market-based indicators.

Non Credit-Risk Related Guarantees and Other Arrangements

Visa covered litigation In 2008, we received Class B Shares as part of Visa's initial public offering ("IPO"). Pursuant to the IPO, we, along with all the other Class B shareholders, agreed to indemnify Visa for the claims and obligations arising from certain specific covered litigation. The Class B Shares are not eligible to be converted into publicly traded Class A Shares until settlement of the covered litigation described in Note 30, "Litigation and Regulatory Matters," in our 2021 Form 10-K. Accordingly, the Class B Shares are considered restricted and are only transferable under limited circumstances, which include transfers to other Class B shareholders.

In 2016 and 2017, we sold substantially all of our Visa Class B Shares to a third party. Under the terms of the sale agreements, we entered into swap agreements with the purchaser to retain the litigation risk associated with the Class B Shares sold until the related litigation is settled and the Class B Shares can be converted into Class A Shares. These swaps had a carrying value of \$54 million and \$38 million at June 30, 2022 and December 31, 2021, respectively. The swap agreements we entered into with the purchaser require us to (a) make periodic payments, calculated by reference to the market price of Class A Shares and (b) make or receive payments based on subsequent changes in the conversion rate of Class B Shares into Class A Shares. We have entered into a total return swap position to economically hedge the periodic payments made under these swap agreements. The payments under the derivative will continue until the Class B Shares are able to be converted into Class A Shares. The fair value of the swap agreements is estimated using a discounted cash flow methodology and is dependent upon the final resolution of the related litigation. Changes in fair value between periods are recognized in other income (loss). In the second quarter of 2022, we recorded a loss of \$31 million related to an increase in the expected timing of the final resolution of the related litigation and, to a lesser extent, a change in the Visa Class B Share conversion rate. See Note 10, "Derivative Financial Instruments," for further information.

Clearing houses and exchanges We are a member of various exchanges and clearing houses that trade and clear securities and/ or derivatives contracts. Under the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, members of a clearing house may be required to contribute to a guaranty fund to backstop members' obligations to the clearing house. As a member, we may be required to pay a proportionate share of the financial obligations of another member who defaults on its obligations to the exchange or the clearing house. Our guarantee obligations would arise only if the exchange or clearing house had exhausted its resources. Any potential contingent liability under these membership agreements cannot be estimated.

Lease Obligations We are obligated under a number of noncancellable operating leases for premises and equipment. See Note 12, "Leases," in our 2021 Form 10-K for a full discussion of our leases, including a maturity analysis of our operating lease liabilities. During the second quarter of 2022, we entered into a new 20-year operating lease agreement to relocate our U.S. headquarters to 66 Hudson Boulevard, New York, New York. The lease contains certain renewal and termination options and is expected to commence in the first quarter of 2024. We currently expect to record a lease ROU asset and a corresponding operating lease liability of approximately \$230 million upon commencement of the lease.

Mortgage Loan Repurchase Obligations We originate and sell mortgage loans to third parties and provide various representations and warranties related to, among other things, the ownership of the loans, the validity of the liens, the loan selection and origination process, and the compliance to the origination criteria established by the government agencies. In the event of a breach of our representations and warranties, we may be obligated to repurchase the loans with identified defects or to indemnify the buyers. Our contractual obligation arises only when the breach of representations and warranties are discovered and repurchase is demanded.

In estimating our repurchase liability arising from breaches of representations and warranties, we consider historical losses on residual risks not covered by settlement agreements adjusted for any risk factors not captured in the historical losses as well as the level of outstanding repurchase demands received. Outstanding repurchase demands received were immaterial at June 30, 2022 and December 31, 2021.

Our estimated repurchase liability for obligations arising from the breach of representations and warranties associated with mortgage loans sold was \$12 million and \$3 million at June 30, 2022 and December 31, 2021, respectively. Our repurchase liability represents our best estimate of the loss that has been incurred, including interest, arising from breaches of representations and warranties associated with mortgage loans sold. Because the level of mortgage loan repurchase losses is

dependent upon economic factors, investor demand strategies and other external risk factors such as housing market trends that may change, the level of the liability for mortgage loan repurchase losses requires significant judgment. We continue to evaluate our methods of determining the best estimate of loss based on recent trends. As these estimates are influenced by factors outside our control, there is uncertainty inherent in these estimates making it reasonably possible that they could change. The range of reasonably possible losses in excess of our recorded repurchase liability is between zero and \$30 million at June 30, 2022. This estimated range of reasonably possible losses was determined primarily based upon modifying the assumptions utilized in our best estimate of probable losses to reflect what we believe to be reasonably possible adverse assumptions.

Securitization Activity In addition to the repurchase risk described above, we have also been involved as a sponsor/seller of loans used to facilitate whole loan securitizations underwritten by our affiliate, HSI. In this regard, we began acquiring residential mortgage loans in 2005 which were warehoused on our balance sheet with the intent of selling them to HSI to facilitate HSI's whole loan securitization program which was discontinued in 2007. During 2005-2007, we purchased and sold \$24 billion of such loans to HSI which were subsequently securitized and sold by HSI to third parties. See "Mortgage Securitization Matters" in Note 30, "Litigation and Regulatory Matters," in our 2021 Form 10-K for additional discussion of related exposure. The outstanding principal balance on these loans was approximately \$2.6 billion and \$2.7 billion at June 30, 2022 and December 31, 2021, respectively.

Pledged Assets

Pledged assets included in the consolidated balance sheet consisted of the following:

	June 30, 2022	December 31, 2021
	(in m	nillions)
Interest bearing deposits with banks ⁽¹⁾	\$ 934	\$ 563
Trading assets ⁽²⁾	1,559	1,773
Securities available-for-sale ⁽³⁾	4,874	7,618
Securities held-to-maturity ⁽³⁾	423	599
Loans ⁽⁴⁾	16,716	17,777
Other assets ⁽⁵⁾	1,637	1,211
Total	\$ 26,143	\$ 29,541

⁽¹⁾ Represents gross amount of cash on deposit with banks primarily related to derivative collateral-support agreements, of which a majority has been netted against derivative liabilities on the consolidated balance sheet.

Debt securities pledged as collateral under repurchase agreements that can be sold or repledged by the secured party continue to be reported on the consolidated balance sheet. The fair value of securities available-for-sale that could be sold or repledged was \$991 million and \$2,410 million at June 30, 2022 and December 31, 2021, respectively. The fair value of trading assets that could be sold or repledged was \$1,559 million and \$1,749 million at June 30, 2022 and December 31, 2021, respectively.

The fair value of collateral we accepted under security resale agreements but was not reported on the consolidated balance sheet was \$9,184 million and \$12,848 million at June 30, 2022 and December 31, 2021, respectively. Of this collateral, \$9,084 million and \$12,848 million could be sold or repledged at June 30, 2022 and December 31, 2021, respectively, of which \$2,158 million and \$538 million, respectively, had been sold or repledged as collateral under repurchase agreements or to cover short sales.

Repurchase Agreements

We enter into purchases of securities under agreements to resell (resale agreements) and sales of securities under agreements to repurchase (repurchase agreements) identical or substantially the same securities. Resale and repurchase agreements are accounted for as secured lending and secured borrowing transactions, respectively.

Repurchase agreements may require us to deposit cash or other collateral with the lender. In connection with resale agreements, it is our policy to obtain possession of collateral, which may include the securities purchased, with market value in excess of the principal amount loaned. The market value of the collateral subject to the resale and repurchase agreements is regularly

⁽²⁾ Trading assets are primarily pledged against liabilities associated with repurchase agreements.

⁽³⁾ Securities are primarily pledged against derivatives, public fund deposits, trust deposits and various short-term and long term borrowings, as well as providing capacity for potential secured borrowings from the FHLB and the Federal Reserve Bank of New York.

⁽⁴⁾ Loans are primarily residential mortgage loans pledged against current and potential borrowings from the FHLB and the Federal Reserve Bank of New York.

⁽⁵⁾ Represents gross amount of cash on deposit with non-banks primarily related to derivative collateral support agreements, of which a majority has been netted against derivative liabilities on the consolidated balance sheet.

monitored, and additional collateral is obtained or provided when appropriate, to ensure appropriate collateral coverage of these secured financing transactions.

The following table provides information about resale and repurchase agreements that are subject to offset at June 30, 2022 and December 31, 2021:

							G	ross Amounts Balanc				
	Gros Amou Recogn	nts	0	oss Amounts ffset in the ance Sheet ⁽¹⁾	Pr	let Amounts esented in the alance Sheet	In	Financial struments ⁽²⁾	C	ash Collateral Received / Pledged	Net	t Amount ⁽³⁾
						(in mill	lions)					
At June 30, 2022												
Assets:												
Securities purchased under resale agreements	\$ 9	,263	\$	4,322	\$	4,941	\$	4,906	\$	33	\$	2
Liabilities:												
Securities sold under repurchase agreements	\$ 4	,786	\$	4,322	\$	464	\$	460	\$	4	\$	_
At December 31, 2021												
Assets:												
Securities purchased under resale agreements	\$ 12	,871	\$	2,357	\$	10,514	\$	10,464	\$	50	\$	_
Liabilities:				ŕ		ŕ		•				
Securities sold under repurchase agreements	\$ 4	,672	\$	2,357	\$	2,315	\$	2,315	\$	_	\$	_

⁽¹⁾ Represents recognized amount of resale and repurchase agreements with counterparties subject to legally enforceable netting agreements that meet the applicable netting criteria as permitted by generally accepted accounting principles.

The following table provides the class of collateral pledged and remaining contractual maturity of repurchase agreements accounted for as secured borrowings at June 30, 2022 and December 31, 2021:

	vernight and ontinuous	τ	p to 30 Days	1 to 90 Days		Days to ne Year	Greater han One Year	Total
				(in m	illions)		
At June 30, 2022								
U.S. Treasury, U.S. Government sponsored and U.S. Government agency securities	\$ 2,572	\$	1,315	\$ 237	\$	662	\$ _	\$ 4,786
At December 31, 2021								
U.S. Treasury, U.S. Government sponsored and U.S. Government agency securities	\$ _	\$	3,442	\$ 1,151	\$	79	\$ _	\$ 4,672

⁽²⁾ Represents securities received or pledged to cover financing transaction exposures.

⁽³⁾ Represents the amount of our exposure that is not collateralized / covered by pledged collateral.

19. Fair Value Measurements

Accounting principles related to fair value measurements provide a framework for measuring fair value that focuses on the exit price that would be received to sell an asset or paid to transfer a liability in the principal market (or in the absence of the principal market, the most advantageous market) accessible in an orderly transaction between willing market participants (the "Fair Value Framework"). Where required by the applicable accounting standards, assets and liabilities are measured at fair value using the "highest and best use" valuation premise. Fair value measurement guidance clarifies that financial instruments do not have alternative use and, as such, the fair value of financial instruments should be determined using an "in-exchange" valuation premise. However, the fair value measurement guidance provides a valuation exception and permits an entity to measure the fair value of a group of financial assets and financial liabilities with offsetting credit risks and/or market risks based on the exit price it would receive or pay to transfer the net risk exposure of a group of assets or liabilities if certain conditions are met. We elected to apply the measurement exception to a group of derivative instruments with offsetting credit risks and market risks, which primarily relate to interest rate, foreign currency, debt and equity price risk, and commodity price risk as of the reporting date.

Fair Value Adjustments The best evidence of fair value is quoted market price in an actively traded market, where available. In the event listed price or market quotes are not available, valuation techniques that incorporate relevant transaction data and market parameters reflecting the attributes of the asset or liability under consideration are applied. Where applicable, fair value adjustments are made to ensure the financial instruments are appropriately recorded at fair value. The fair value adjustments reflect the risks associated with the products, contractual terms of the transactions, and the liquidity of the markets in which the transactions occur. The fair value adjustments are broadly categorized by the following major types:

Credit valuation adjustment - The credit valuation adjustment is an adjustment to a group of financial assets and financial liabilities, predominantly derivative assets and derivative liabilities, to reflect the credit quality of the parties to the transaction in arriving at fair value. A credit valuation adjustment to a financial asset is required to reflect the default risk of the counterparty. A debit valuation adjustment to a financial liability is recorded to reflect the default risk of HUSI. See "Valuation Techniques - Derivatives" below for additional details.

Liquidity risk adjustment - The liquidity risk adjustment (primarily in the form of bid-offer adjustment) reflects the cost that would be incurred to close out the market risks by hedging, disposing or unwinding the position. Valuation models generally produce mid-market values. The bid-offer adjustment is made in such a way that results in a measure that reflects the exit price that most represents the fair value of the financial asset or financial liability under consideration or, where applicable, the fair value of the net market risk exposure of a group of financial assets or financial liabilities. These adjustments relate primarily to Level 2 assets.

Model valuation adjustment - Where fair value measurements are determined using an internal valuation model based on observable and unobservable inputs, certain valuation inputs may be less readily determinable. There may be a range of possible valuation inputs that market participants may assume in determining the fair value measurement. The resultant fair value measurement has inherent measurement risk if one or more parameters are unobservable and must be estimated. An input valuation adjustment is necessary to reflect the likelihood that market participants may use different input parameters, and to mitigate the possibility of measurement error. In addition, the values derived from valuation techniques are affected by the choice of valuation model and model limitation. When different valuation techniques are available, the choice of valuation model can be subjective. Furthermore, the valuation model applied may have measurement limitations. In those cases, an additional valuation adjustment is also applied to mitigate the measurement risk. Model valuation adjustments are not material and relate primarily to Level 2 instruments.

We apply stress scenarios in determining appropriate liquidity risk and model risk adjustments for Level 3 fair values by reviewing the historical data for unobservable inputs (e.g., correlation, volatility). Some stress scenarios involve at least a 95 percent confidence interval (i.e., two standard deviations). We also utilize unobservable parameter adjustments when instruments are valued using internally developed models which reflects the uncertainty in the value estimates provided by the model.

Funding Fair Value Adjustment ("FFVA") - The FFVA reflects the estimated present value of the future market funding cost or benefit associated with funding uncollateralized derivative exposure at unsecured funding spreads. See "Valuation Techniques - Derivatives" below for additional details.

Fair Value Hierarchy The Fair Value Framework establishes a three-tiered fair value hierarchy as follows:

Level 1 quoted market price - Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 valuation technique using observable inputs - Level 2 inputs include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are inactive, and measurements

determined using valuation models where all significant inputs are observable, such as interest rates and yield curves that are observable at commonly quoted intervals.

Level 3 valuation technique with significant unobservable inputs - Level 3 inputs are unobservable inputs for the asset or liability and include situations where fair values are measured using valuation techniques based on one or more significant unobservable inputs.

Classification within the fair value hierarchy is based on whether the lowest hierarchical level input that is significant to the fair value measurement is observable. As such, the classification within the fair value hierarchy is dynamic and can be transferred to other hierarchy levels in each reporting period.

Where fair value measurements are determined based on information obtained from independent pricing services or brokers, Finance applies appropriate validation procedures to substantiate fair value. For price validation purposes, quotations from at least two independent pricing sources are obtained for each financial instrument, where possible.

The following factors are considered in determining fair values:

- similarities between the asset or the liability under consideration and the asset or liability for which quotation is received;
- collaboration of pricing by referencing to other independent market data such as market transactions and relevant benchmark indices;
- consistency among different pricing sources;
- the valuation approach and the methodologies used by the independent pricing sources in determining fair value;
- the elapsed time between the date to which the market data relates and the measurement date;
- the source of the fair value information; and
- whether the security is traded in an active or inactive market.

Greater weight is given to quotations of instruments with recent market transactions, pricing quotes from dealers who stand ready to transact, quotations provided by market-makers who structured such instrument and market consensus pricing based on inputs from a large number of survey participants. Any significant discrepancies among the external quotations are reviewed and adjustments to fair values are recorded where appropriate. Where the transaction volume of a specific instrument has been reduced and the fair value measurement becomes less transparent, Finance will apply more detailed procedures to understand and challenge the appropriateness of the unobservable inputs and the valuation techniques used by the independent pricing service. Where applicable, Finance will develop a fair value estimate using its own pricing model inputs to test reasonableness. Where fair value measurements are determined using internal valuation models, Finance will validate the fair value measurement by either developing unobservable inputs based on the industry consensus pricing surveys in which we participate or back testing by observing the actual settlements occurring soon after the measurement date.

Assets and Liabilities Recorded at Fair Value on a Recurring Basis The following table presents information about our assets and liabilities measured at fair value on a recurring basis at June 30, 2022 and December 31, 2021, and indicates the fair value hierarchy of the valuation techniques utilized to determine such fair value. Unless otherwise noted below, assets and liabilities in the following table are recorded at fair value through net income.

				Fair Val	lue Me	asuremei	nts o	n a Recurr	ing Basi	s		
June 30, 2022	L	evel 1]	Level 2	Le	evel 3]	Gross Balance	Nett	ing ⁽⁶⁾	F	Net Balance
						(in mi	llion	s)				
Assets:												
Trading assets, excluding derivatives:												
U.S. Treasury, U.S. Government agencies and sponsored enterprises		1,964	\$	398	\$	_	\$	2,362	\$	_	\$	2,362
Debt securities issued by foreign entities		1,606		_		_		1,606		_		1,606
Equity securities		9,065		_		_		9,065		_		9,065
Precious metals trading		_		3,372		_		3,372		_		3,372
Derivatives: ⁽¹⁾												
Interest rate contracts		26		1,764		2		1,792		_		1,792
Foreign exchange contracts		_		16,613		3		16,616		_		16,616
Equity contracts		_		1,642		84		1,726		_		1,726
Precious metals contracts		6		1,295		_		1,301		_		1,301
Credit contracts		_		77		_		77		_		77
Other contracts ⁽²⁾		_		_		7		7		_		7
Derivatives netting		_		_		_		_	(1	9,172)		(19,172)
Total derivatives		32		21,391		96		21,519	(1	9,172)		2,347
Securities available-for-sale: (3)												
U.S. Treasury, U.S. Government agencies and sponsored enterprises		9,398		19,193		_		28,591		_		28,591
Asset-backed securities:												
Home equity		_		_		16		16		_		16
Other		_		_		97		97		_		97
Debt securities issued by foreign entities		2,251		107		_		2,358		_		2,358
Loans held for sale ⁽⁴⁾		_		194		_		194		_		194
Other assets:												
Mortgage servicing rights		_		_		22		22		_		22
Equity securities		_		132		_		132		_		132
Equity securities measured at net asset value ⁽⁵⁾		_		_		_		144		_		144
Total assets		24,316	\$	44,787	\$	231	\$	69,478	\$ (1	9,172)	\$	50,306
Liabilities:		2.,010	=	,	=		<u></u>	02,170	• (-	-, <u>-,-</u>		
Domestic deposits ⁽⁴⁾	\$	_	\$	1,518	\$	500	\$	2,018	\$	_	\$	2,018
Trading liabilities, excluding derivatives		907	Ψ	340	Ψ	_	Ψ	1,247	Ψ	_	Ψ	1,247
Derivatives: (1)		207		340				1,247				1,247
Interest rate contracts		17		1,544		6		1,567				1,567
Foreign exchange contracts		17		16,398		3		16,401		_		16,401
Equity contracts		21		897		366		1,284		_		1,284
Precious metals contracts		21				300				_		
Credit contracts		_		1,108		_		1,108		_		1,108 79
Other contracts ⁽²⁾		_		78		1		79 54				
				_		54		54	(1			54
Derivatives netting			_	20.025		420	_	20.402		7,554)	_	(17,554)
Total derivatives		38		20,025		430		20,493	(1	7,554)		2,939
Long-term debt ⁽⁴⁾	Φ.			5,027		2,093	_	7,120	a		_	7,120
Total liabilities	\$	945	\$	26,910	\$	3,023	\$	30,878	\$ (1	7,554)	\$	13,324

				Fair Val	lue M	easuremei	nts o	n a Recurr	ing Basis		
December 31, 2021		Level 1]	Level 2	L	evel 3]	Gross Balance	Netting ⁽⁶⁾]	Net Balance
						(in mi					
Assets:											
Trading assets, excluding derivatives:											
U.S. Treasury, U.S. Government agencies and sponsored enterprises	. \$	2,337	\$	432	\$	_	\$	2,769	s —	\$	2,769
Debt securities issued by foreign entities		134		33		_		167	_		167
Equity securities		15,795		_		_		15,795	_		15,795
Precious metals trading		_		3,907		_		3,907	_		3,907
Derivatives:(1)											
Interest rate contracts		8		1,839		1		1,848	_		1,848
Foreign exchange contracts		_		11,350		_		11,350	_		11,350
Equity contracts		_		1,845		213		2,058	_		2,058
Precious metals contracts		4		936		_		940	_		940
Credit contracts		_		28		_		28	_		28
Other contracts ⁽²⁾		_		_		5		5	_		5
Derivatives netting		_		_		_		_	(14,788)		(14,788)
Total derivatives	. —	12		15,998		219		16,229	(14,788)		1,441
Securities available-for-sale: ⁽³⁾											
U.S. Treasury, U.S. Government agencies and sponsored enterprises		10,817		22,049		_		32,866	_		32,866
Asset-backed securities:											
Home equity		_		_		19		19	_		19
Other		_		_		101		101	_		101
Debt securities issued by foreign entities		2,201		111		_		2,312	_		2,312
Loans held for sale ⁽⁴⁾		_		48		_		48	_		48
Other assets:											
Mortgage servicing rights		_		_		16		16	_		16
Equity securities		_		144		_		144	_		144
Equity securities measured at net asset value ⁽⁵⁾		_		_		_		138	_		138
Total assets	. \$	31,296	\$	42,722	\$	355	\$	74,511	\$ (14,788)	\$	59,723
Liabilities:				i		:					
Domestic deposits ⁽⁴⁾	. \$	_	\$	2,214	\$	535	\$	2,749	\$ —	\$	2,749
Trading liabilities, excluding derivatives		1,103		46		_		1,149	_		1,149
Derivatives: ⁽¹⁾											
Interest rate contracts		10		1,888		1		1,899	_		1,899
Foreign exchange contracts		_		11,124		2		11,126	_		11,126
Equity contracts		_		1,194		167		1,361	_		1,361
Precious metals contracts		_		779		_		779	_		779
Credit contracts		_		80		2		82	_		82
Other contracts ⁽²⁾		_		_		38		38	_		38
Derivatives netting		_		_		_		_	(13,287)		(13,287)
Total derivatives		10		15,065		210		15,285	(13,287)		1,998
Long-term debt ⁽⁴⁾		_		7,089		1,853		8,942	_		8,942
Total liabilities	. \$	1,113	\$	24,414	\$	2,598	\$	28,125	\$ (13,287)	\$	14,838

⁽¹⁾ Includes trading derivative assets of \$2,303 million and \$1,405 million and trading derivative liabilities of \$2,519 million and \$1,874 million at June 30, 2022 and December 31, 2021, respectively, as well as derivatives held for hedging and commitments accounted for as derivatives. See Note 10, "Derivative Financial Instruments," for additional information. Excluding changes in fair value of a derivative instrument associated with a qualifying cash flow hedge, which are recognized initially in other comprehensive income (loss), derivative assets and liabilities are recorded at fair value through net income.

⁽²⁾ Consists of swap agreements entered into in conjunction with the sales of Visa Class B Shares.

⁽³⁾ Securities available-for-sale are recorded at fair value through other comprehensive income (loss). Changes in the allowance for credit losses on securities available-for-sale are recorded through net income.

⁽⁴⁾ See Note 11, "Fair Value Option," for additional information. Excluding the fair value movement on fair value option liabilities attributable to our own credit spread, which is recorded in other comprehensive income (loss), fair value option assets and liabilities are recorded at fair value through net income.

⁽⁵⁾ Investments that are measured at fair value using the net asset value per share practical expedient have not been classified in the fair value hierarchy.

⁽⁶⁾ Represents counterparty and cash collateral netting which allow the offsetting of amounts relating to certain contracts if certain conditions are met.

Information on Level 3 assets and liabilities The following table summarizes additional information about changes in the fair value of Level 3 assets and liabilities during the three and six months ended June 30, 2022 and 2021. As a risk management practice, we may risk manage the Level 3 assets and liabilities, in whole or in part, using securities and derivative positions that are classified as Level 1 or Level 2 measurements within the fair value hierarchy. Since those Level 1 and Level 2 risk management positions are not included in the table below, the information provided does not reflect the effect of such risk management activities related to the Level 3 assets and liabilities.

				Total Ro Unrealiz Losses) Ii	ed (Jains										Curren Unrealiz (Losses) S Inclu	ed G Still 1	ains Held
	A 2	pr. 1, 2022	Ea	ırnings	Co h In	Other ompre- ensive ncome (Loss)	urch- ases	Issu- inces	n	ettle- nents	ransfers Into Level 3		ransfers Out of Level 3	un. 30, 2022	Ea	arnings	Co he In	ther mpre- nsive come Loss)
Assets:								(in m	111110	ons)								
Derivatives, net: ⁽¹⁾																		
Interest rate contracts	\$	(1)	\$	(1)	\$	_	\$ _	\$ _	\$	_	\$ (2)	\$	_	\$ (4)	\$	_	\$	_
Foreign exchange contracts		(1)		1		_	_	_		_	_		_	_		_		_
Equity contracts		(1)		(221)		_	_	_		(53)	(7)		_	(282)		(255)		_
Credit contracts		(2)		1		_	_	_		_	_		_	(1)		1		_
Other contracts ⁽²⁾		(24)		(30)		_	_	_		7	_		_	(47)		_		_
Asset-backed securities available-for- sale ⁽³⁾		114		_		(1)	_	_		_	_		_	113		_		(1)
Mortgage servicing rights ⁽⁴⁾		21		_		_	_	1		_	_		_	22		_		_
Total assets	\$	106	\$	(250)	\$	(1)	\$	\$ 1	\$	(46)	\$ (9)	\$	_	\$ (199)	\$	(254)	\$	(1)
Liabilities:												_						
Domestic deposits ⁽⁵⁾	\$	(492)	\$	24	\$	3	\$ _	\$ _	\$	46	\$ (81)	\$	_	\$ (500)	\$	20	\$	3
Long-term debt ⁽⁵⁾	((2,072)		259		11	_	(358)		98	(31)		_	(2,093)		252		11
Total liabilities	\$ ((2,564)	\$	283	\$	14	\$	\$ (358)	\$	144	\$ (112)	\$		\$ (2,593)	\$	272	\$	14

			ealized / zed Gains ncluded i												Curren Unrealiz (Losses) Inclu	ed Ga Still F	ains Held
	ın. 1, 022	Earnings	Othe Composite hensiv Incom (Loss	re- ve 1e	rch- ses		ssu- nces	m	ettle- ients	ansfers Into evel 3	(ansfers Out of evel 3	un. 30, 2022	Ea	arnings	Cor he In	ther mpre- nsive come Loss)
A							(in m	illio	ons)								
Assets: Derivatives, net: ⁽¹⁾																	
Interest rate contracts \$	_	\$ (1)	\$	_	\$ _	\$	_	\$	_	\$ (3)	\$	_	\$ (4)	\$	(1)	\$	_
Foreign exchange contracts	(2)	2		_	_		_		_	_		_	_		_		_
Equity contracts	46	(341)		_	_		_		(52)	22		43	(282)		(339)		_
Credit contracts	(2)	1		_	_		_		_	_		_	(1)		1		_
Other contracts ⁽²⁾	(33)	(31)		_	_		_		17	_		_	(47)		_		_
Asset-backed securities available-for- sale ⁽³⁾	120	_		(4)	_		_		(3)	_		_	113		_		(4)
Mortgage servicing rights ⁽⁴⁾	16	4		_	_		2		_	_		_	22		2		_
Total assets \$	145	\$ (366)	\$	(4)	\$ 	\$	2	\$	(38)	\$ 19	\$	43	\$ (199)	\$	(337)	\$	(4)
Liabilities:				<u> </u>		_			<u>, /</u>		_				<u> </u>		
Domestic deposits ⁽⁵⁾ \$	(535)	\$ 45	\$	1	\$ _	\$	_	\$	116	\$ (130)	\$	3	\$ (500)	\$	38	\$	1
Long-term debt ⁽⁵⁾ (1	1,853)	353		16	_		(658)		200	(237)		86	(2,093)		319		16
Total liabilities \$ (2	2,388)	\$ 398	\$	17	\$ _	\$	(658)	\$	316	\$ (367)	\$	89	\$ (2,593)	\$	357	\$	17

			Unr	ealiz	ealize ed G nclud												Į	Curren Jnrealiz Losses) Inclu	ed G Still I	ains Held
	Ap 20	r. 1,)21	Earnii	ngs	Co he In	other mpre- ensive come Loss)	ırch- ises	ssu- nces	m	ettle- ents		ransfers Into Level 3	(ransfers Out of Level 3		un. 30, 2021	Ea	rnings	Co he In	other mpre- nsive come _oss)
								(in n	illio	ns)										
Assets:																				
Trading assets, excluding derivatives: ⁽⁶⁾																				
Residential mortgage asset- backed securities	\$	24	\$	_	\$	_	\$ _	\$ _	\$	_	\$	_	\$	(24)	\$	_	\$	_	\$	_
Derivatives, net:(1)																				
Interest rate contracts		2		6		_	_	_		_		_		_		8		5		_
Foreign exchange contracts		(2)		1		_	_	_		_		_		_		(1)		1		_
Equity contracts		42	(117)		_	_	_		81		8		(27)		(13)		(47)		_
Credit contracts		45		1		_	_	_		_		_		_		46		2		_
Other contracts ⁽²⁾		(50)		(5)		_	_	_		7		_		_		(48)		_		_
Asset-backed securities available-for- sale ⁽³⁾		130		_		(2)	_	_		(2)		_		_		126		_		(2)
Mortgage servicing rights ⁽⁴⁾		11		(2)		_	_	3		_		_		_		12		(2)		_
Total assets	\$	202	\$ (116)	\$	(2)	\$ 	\$ 3	\$	86	\$	8	\$	(51)	\$	130	\$	(41)	\$	(2)
Liabilities:											_		_	<u> </u>	_			<u>, </u>		
Domestic deposits ⁽⁵⁾	\$	(599)	\$	(12)	\$	1	\$ _	\$ _	\$	60	\$	(109)	\$	66	\$	(593)	\$	(12)	\$	1
Long-term debt ⁽⁵⁾		(486)		(20)		(1)	_	(418)		34		(34)		6		(919)		(23)		(1)
	\$ (1	,085)		(32)	\$		\$ 	\$ (418)	\$	94	\$		\$	72	\$	(1,512)	\$	(35)	\$	

		Unrealiz	ealized / ed Gains ncluded in							Unrealiz (Losses)	t Period ed Gains Still Held ded in
	Jan. 1, 2021	Earnings	Other Compre- hensive Income (Loss)	Purch- ases	Issu- ances	Settle- ments	Transfers Into Level 3	Transfers Out of Level 3	Jun. 30, 2021	Earnings	Other Compre- hensive Income (Loss)
Assets:					(in n	nillions)					
Trading assets, excluding derivatives: ⁽⁶⁾											
Residential mortgage asset- backed securities	\$ 15	\$ 9	\$ —	\$ —	\$ —	\$ —	\$ —	\$ (24)	\$ —	\$ 9	\$ —
Derivatives, net:(1)											
Interest rate contracts	34	(26)	_	_	_	_	_	_	8	(12)	_
Foreign exchange contracts	9	(10)	_	_	_	_	_	_	(1)	(11)	_
Equity contracts	119	(139)	_	_	_	27	8	(28)	(13)	10	_
Credit contracts	63	(16)	_	_	_	(1)	_	_	46	(17)	_
Other contracts ⁽²⁾	(59)	(3)	_	_	_	14	_	_	(48)	_	_
Asset-backed securities available-for- sale ⁽³⁾	131	_	(1)	_	_	(4)	_	_	126	_	(1)
Mortgage servicing rights ⁽⁴⁾	7	(1)	_	_	6	_	_	_	12	(1)	_
Total assets	\$ 319	\$ (186)	\$ (1)	<u> </u>	\$ 6	\$ 36	\$ 8	\$ (52)	\$ 130	\$ (22)	\$ (1)
Liabilities:											
Domestic deposits ⁽⁵⁾	\$ (646)	\$ (8)	\$ 1	s —	\$ —	\$ 88	\$ (109)	\$ 81	\$ (593)	\$ (4)	\$ 1
Long-term debt ⁽⁵⁾	(448)	(23)	(1)	_	(541)	123	(36)	7	(919)	(19)	(1)
Total liabilities	\$ (1,094)	\$ (31)	\$ _	<u>\$</u>	\$ (541)	\$ 211	\$ (145)	\$ 88	\$ (1,512)	\$ (23)	<u>\$</u>

⁽¹⁾ Level 3 net derivatives included derivative assets of \$96 million and derivative liabilities of \$430 million at June 30, 2022 and derivative assets of \$485 million and derivative liabilities of \$493 million at June 30, 2021. Gains (losses) on derivatives, net are predominantly included in trading revenue and gain on instruments designated at fair value and related derivatives in the consolidated statement of income.

⁽²⁾ Consists of swap agreements entered into in conjunction with the sales of Visa Class B Shares. Gains (losses) on these swap agreements are included in other income (loss) in the consolidated statement of income.

⁽³⁾ Realized gains (losses) on securities available-for-sale are included in other securities gains, net in the consolidated statement of income. Changes in the allowance for credit losses on securities available-for-sale are included in the provision for credit losses in the consolidated statement of income. Unrealized gains (losses) on securities available-for-sale are included in other comprehensive income (loss).

⁽⁴⁾ Gain (losses) on mortgage servicing rights are included in other income (loss) in the consolidated statement of income.

⁽⁵⁾ Excluding unrealized gains (losses) on fair value option liabilities attributable to our own credit spread, which are recorded in other comprehensive income (loss), gains (losses) on fair value option liabilities are included in gain on instruments designated at fair value and related derivatives in the consolidated statement of income.

⁽⁶⁾ Gains (losses) on trading assets, excluding derivatives are included in trading revenue in the consolidated statement of income.

Significant Unobservable Inputs for Recurring Fair Value Measurements

The following table presents quantitative information about the unobservable inputs used to determine the recurring fair value measurement of assets and liabilities classified as Level 3 fair value measurements at June 30, 2022 and December 31, 2021:

June 30, 2022

Financial Instrument Type	rate derivative \$ (4) Market comparable adjust	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs	Weighted Average ⁽¹⁾	
Interest rate derivative contracts	\$	(4)	Market comparable adjusted for probability to fund and, where applicable, option pricing model	Probability to fund for rate lock commitments	49% - 99%	83%
				Interest rate yield curve	9%	N/A
Foreign exchange derivative contracts ⁽²⁾	\$	_	Option pricing model	Cross-currency basis	21bps	N/A
Equity derivative contracts ⁽²⁾	\$	(282)	Option pricing model	Equity / Equity Index volatility	8% - 96%	45%
			Equity / Equity and Equity / Index correlation	44% - 97%	85%	
				Equity forward price	\$40 - \$5,108	\$1,136
Credit derivative contracts	\$	(1)	Option pricing model and, where applicable, discounted cash flows	Credit default swap spreads	241bps - 410bps	389bps
Other derivative contracts	\$	(47)	Discounted cash flows	Conversion rate	1.6 times	N/A
				Expected duration	1.5 years	N/A
Asset-backed securities available-for-sale	\$	113	Discounted cash flows	Market assumptions related to yields for comparable instruments	2% - 3%	2%
Mortgage servicing rights	\$	22	Discounted cash flows	Constant prepayment rates	6% - 15%	6%
				Discount rate	8% - 13%	8%
				Estimated annualized costs to service	\$72 - \$76 per account	\$74 per account
Domestic deposits (structured deposits) ⁽²⁾⁽³⁾	\$	(500)	Option adjusted discounted cash flows	Equity / Equity Index volatility	8% - 25%	20%
				Equity / Equity and Equity / Index correlation	49% - 89%	66%
Long-term debt (structured notes) ⁽²⁾⁽³⁾	\$	(2,093)	Option adjusted discounted cash flows	Equity / Equity Index volatility	8% - 59%	31%
				Equity / Equity and Equity / Index correlation	44% - 97%	85%
				Credit default swap spreads	1,233bps	N/A

December 31, 2021					
Financial Instrument Type	ir Value millions)	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs	Weighted Average ⁽¹
Interest rate derivative contracts	\$ _	Market comparable adjusted for probability to fund and, where applicable, option pricing model	Probability to fund for rate lock commitments	36% - 99%	83%
			Interest rate yield curve	8%	N/A
Foreign exchange derivative contracts ⁽²⁾	\$ (2)	Option pricing model	Implied volatility of currency pairs	0% - 9%	6%
			Cross-currency basis	(86)bps	N/A
Equity derivative contracts ⁽²⁾	\$ 46	Option pricing model	Equity / Equity Index volatility	8% - 85%	40%
			Equity / Equity and Equity / Index correlation	44% - 98%	81%
			Equity dividend yields and forward price	(4)% - 1%	0%
Credit derivative contracts	\$ (2)	Option pricing model and, where applicable, discounted cash flows	Credit default swap spreads	76bps - 325bps	234bps
Other derivative contracts	\$ (33)	Discounted cash flows	Conversion rate	1.6 times	N/A
			Expected duration	1.0 year	N/A
Asset-backed securities available-for-sale	\$ 120	Discounted cash flows	Market assumptions related to yields for comparable instruments	3% - 4%	3%
Mortgage servicing rights	\$ 16	Discounted cash flows	Constant prepayment rates	10% - 16%	12%
			Discount rate	8% - 13%	8%
			Estimated annualized costs to service	\$72 - \$85 per account	\$75 per account
Domestic deposits (structured deposits) ⁽²⁾⁽³⁾	\$ (535)	Option adjusted discounted cash flows	Equity / Equity Index volatility	8% - 21%	15%
			Equity / Equity and Equity / Index correlation	49% - 85%	62%
Long-term debt (structured notes) ⁽²⁾⁽³⁾	\$ (1,853)	Option adjusted discounted cash flows	Implied volatility of currency pairs	0% - 9%	6%
			Equity / Equity Index volatility	8% - 71%	31%
			Equity / Equity and Equity / Index correlation	44% - 98%	82%
			Credit default swap spreads	798bps	N/A

For foreign exchange derivatives, equity derivatives, credit derivatives, structured deposits and structured notes, weighted averages are calculated based on the fair value of the instruments. For all remaining instrument types, weighted averages are calculated based on the notional value of the instruments.

N/A Not Applicable

Uncertainty of Level 3 Inputs to Fair Value Measurements

Interest rate derivatives - For mortgage rate lock commitments, the fair value measurement is affected by the probability of executing and funding the mortgage. An increase (decrease) in the likelihood of a mortgage being executed would have resulted in a lower (higher) fair value measurement of the interest rate derivative. For certain other interest rate derivatives, the interest rates for longer dated tenors were not observable. An increase (decrease) in the interest rate would have resulted in a higher (lower) fair value measurement of the derivative depending on if we receive or pay the floating rate.

Equity derivatives - The fair value measurement of a structured equity derivative is primarily affected by the implied volatility of the underlying equity price. The level of volatility is a function of the nature of the underlying risk, the level of strike price and the years to maturity of the option. Depending on the underlying risk and tenure, we determine the implied volatility based on observable input where information is available. However, substantially all of the implied volatilities are derived based on historical information and are not observable. A significant increase (decrease) in the implied volatility would have resulted in a higher (lower) fair value of a long position in the derivative contract. For a derivative referenced to a basket of equities, the fair value measurement is also affected by the correlation of the referenced equities. Correlation measures the relative change in values among two or more variables (i.e., equity pair), which can be positively or negatively correlated. A majority of the

We are the client-facing entity and, except for structured notes and deposits with embedded credit derivative features, we enter into identical but opposite derivatives to transfer the resultant risks to our affiliates. With the exception of counterparty credit risks, we are market risk neutral in substantially all of the structured notes and deposits. The corresponding intra-group derivatives are presented as equity derivatives and foreign exchange derivatives in the

⁽³⁾ Structured deposits and structured notes contain embedded derivative features whose fair value measurements contain significant Level 3 inputs. See equity derivatives and credit derivatives below for a discussion of the uncertainty of Level 3 inputs related to structured deposits and structured notes.

correlations are not observable, but are derived based on historical data. A significant increase (decrease) in the correlation of the referenced variables would have resulted in a higher (lower) fair value of a long position in the derivative contract.

Foreign exchange derivatives - For certain foreign exchange derivatives, the cross-currency basis for longer dated tenors were not observable. An increase (decrease) in the cross-currency basis would have resulted in a higher (lower) fair value measurement of the derivative depending on if we receive or pay the floating rate plus the basis spread.

Credit derivatives - The fair value measurement of certain credit derivatives is primarily affected by the credit spreads of credit default swap contracts. A significant increase (decrease) in the credit spreads would have resulted in a lower (higher) fair value measurement of the credit derivative.

Other derivatives - The fair value of the swap agreements we entered into in conjunction with the sales of Visa Class B Shares is dependent upon the final resolution of the related litigation. Significant unobservable inputs used in the fair value measurement include estimated changes in the conversion rate of Visa Class B Shares into Visa Class A Shares and the expected timing of the final resolution. An increase (decrease) in the loss estimate or in the timing of the resolution of the related litigation would have resulted in a higher (lower) fair value measurement of the derivative.

Asset-backed securities available-for-sale - The fair value measurement of certain asset-backed securities is primarily affected by estimated yields which are determined based on current market yields of comparable instruments adjusted for market liquidity. An increase (decrease) in the yields would have resulted in a lower (higher) fair value measurement of the securities.

Mortgage servicing rights - The fair value measurement of mortgage servicing rights is primarily affected by the estimated prepayment rates of the mortgage loans and the discount rates. An increase (decrease) in either of these inputs would have resulted in a lower (higher) fair value measurement of the mortgage servicing rights.

Significant Transfers Into and Out of Level 3 Measurements During the six months ended June 30, 2022, we transferred \$3 million of domestic deposits and \$86 million of long-term debt, which we have elected to carry at fair value, from Level 3 to Level 2 as a result of the embedded derivative no longer being unobservable as the derivative option is closer to maturity and there is more observability in short term volatility. During the six months ended June 30, 2022, we also transferred \$43 million of equity derivatives from Level 3 to Level 2 as the inputs used to value these contracts have become more observable. During the three and six months ended June 30, 2022, we transferred \$81 million and \$130 million, respectively, of domestic deposits and \$31 million and \$237 million, respectively, of long-term debt, which we elected to carry at fair value, from Level 2 to Level 3 as a result of a change in the observability of underlying inputs that resulted in the embedded derivative being unobservable. Additionally, during the six months ended June 30, 2022, we transferred \$22 million of equity derivatives from Level 2 to Level 3 as the inputs used to value these contracts have become less observable.

During the three and six months ended June 30, 2021, we transferred \$66 million and \$81 million, respectively, of domestic deposits and \$6 million and \$7 million, respectively, of long-term debt, which we have elected to carry at fair value, from Level 3 to Level 2 as a result of the embedded derivative no longer being unobservable as the derivative option is closer to maturity and there is more observability in short term volatility. During the three and six months ended June 30, 2021, we transferred \$109 million and \$109 million, respectively, of domestic deposits and \$34 million and \$36 million, respectively, of long-term debt, which we elected to carry at fair value, from Level 2 to Level 3 as a result of a change in the observability of underlying inputs that resulted in the embedded derivative being unobservable. Additionally, during the second quarter of 2021, we transferred \$24 million of residential mortgage asset-backed securities and \$27 million of equity derivatives from Level 3 to Level 2 as the inputs used to value these securities and derivative contracts have become more observable.

Assets and Liabilities Recorded at Fair Value on a Non-recurring Basis Certain financial and non-financial assets are measured at fair value on a non-recurring basis and therefore, are not included in the tables above. These assets include (a) loans classified as held for sale reported at the lower of amortized cost or fair value, (b) impaired loans or assets that are written down to fair value based on the valuation of underlying collateral during the period and (c) lease ROU assets or leasehold improvement assets that were written down during the period. These instruments are not measured at fair value on an ongoing basis but are subject to fair value adjustment in certain circumstances (e.g., impairment). The following table presents the fair value hierarchy level within which the fair value of the financial and non-financial assets has been recorded at June 30, 2022 and December 31, 2021. The gains (losses) during the three and six months ended June 30, 2022 and 2021 are also included.

	No	on-Rec	urrin	g Fair V June 3			reme	nts at]	al Gains (Losses) For the Three nths Ended June	For t	Gains (Losses) he Six Months ded June 30,
	Le	vel 1	L	evel 2	Le	evel 3	7	Total	IVIO	30, 2022	Enc	2022
								(in milli	ons)			
Consumer loans held for sale ⁽¹⁾	\$		\$	5	\$	9	\$	14	\$	(7)	\$	(8)
Consumer loans ⁽²⁾		_		115		_		115		1		3
Commercial loans held for sale ⁽³⁾				6				6		_		_
Commercial loans ⁽⁴⁾		_				129		129		(5)		_
Leases ⁽⁵⁾		_		_		_		_		4		3
Total assets at fair value on a non-recurring basis	\$	_	\$	126	\$	138	\$	264	\$	(7)	\$	(2)
	No	on-Rec		g Fair V ecembe			reme	nts at]	al Gains (Losses) For the Three	For the	Gains (Losses) he Six Months
		on-Reco	D		r 31,			nts at Total]		For the	
			D	ecembe	r 31,	2021			Mo	For the Three nths Ended June	For the	he Six Months ded June 30,
Consumer loans held for sale ⁽¹⁾	Le \$		L	ecembe	er 31, Le	2021	,	Total	Mo ons)	For the Three nths Ended June	For the	he Six Months ded June 30,
Consumer loans held for sale ⁽¹⁾	Le \$	vel 1	L	evel 2	er 31, Le	2021 evel 3	,	Total (in milli	Mo ons)	For the Three nths Ended June	For the End	he Six Months ded June 30,
	Le \$	vel 1	L	evel 2	er 31, Le	2021 evel 3	,	Total (in milli 1,766	Mo ons)	For the Three nths Ended June 30, 2021	For the End	he Six Months ded June 30, 2021
Consumer loans ⁽²⁾		vel 1	L	evel 2 24 102	er 31, Le	2021 evel 3 1,742	,	Total (in milli 1,766 102	Mo ons)	For the Three nths Ended June 30, 2021	For the End	he Six Months led June 30, 2021 ———————————————————————————————————
Consumer loans ⁽²⁾	Le \$	vel 1	L	evel 2 24 102	er 31, Le	2021 evel 3 1,742 — 68	,	Total (in milli 1,766 102 143	Mo ons)	For the Three nths Ended June 30, 2021	For the End	he Six Months led June 30, 2021 ———————————————————————————————————

⁽¹⁾ At June 30, 2022 and December 31, 2021, the fair value of the loans held for sale was below cost. During 2021, certain consumer loans were transferred to held for sale for which significant inputs in estimating fair value were unobservable.

⁽²⁾ Represents residential mortgage loans held for investment whose carrying amount was adjusted during the period based on the fair value of the underlying collateral.

⁽³⁾ At June 30, 2022 and December 31, 2021, the fair value of the loans held for sale was below cost. During the second quarter of 2021, certain commercial loans were transferred to held for sale for which significant inputs in estimating fair value were unobservable.

⁽⁴⁾ Certain commercial loans are individually assessed for impairment. We measure the credit impairment of a collateral-dependent loan based on the fair value of the collateral asset. The collateral often involves real estate properties that are illiquid due to market conditions. As a result, these loans are classified as a Level 3 fair value measurement within the fair value hierarchy.

During the three and six months ended June 30, 2022, we reversed lease ROU asset and leasehold improvement asset impairment charges associated with certain office space that we determined we would exit. During the second quarter of 2021, we determined that we would exit certain branches and, as a result, the lease ROU assets, leasehold improvement assets and equipment assets associated with these branches were written off. During the second quarter of 2021, we also wrote down the lease ROU assets and leasehold improvement assets associated with closed branches and certain office space that we determined we would exit. In addition, during the fourth quarter of 2021, we transferred one of our owned office space properties to held for sale and, as a result, its carrying amount was written down to an estimated fair value of \$5 million.

Significant Unobservable Inputs for Non-Recurring Fair Value Measurements

The following tables present quantitative information about non-recurring fair value measurements of assets and liabilities classified with Level 3 of the fair value hierarchy at June 30, 2022 and December 31, 2021:

At June 30, 2022

Financial Instrument Type	Fair Value (in millions)	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs	Weighted Average ⁽¹⁾
Consumer loans held for sale	\$ 9	Market comparables and internal assumptions	Adjusted market price	8% - 66%	39%
Commercial loans	129	Valuation of third party appraisal on underlying collateral	Loss severity rates	9% - 52%	23%

At December 31, 2021

Financial Instrument Type	Fair Value (in millions)	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs	Weighted Average ⁽¹⁾
Consumer loans held for sale	\$ 1,742	Market comparables and internal assumptions	Adjusted market price	10% - 100%	98%
Commercial loans held for sale	68	Market comparables and internal assumptions	Adjusted market price	94%	N/A
Commercial loans	186	Valuation of third party appraisal on underlying collateral	Loss severity rates	2% - 76%	23%

Weighted average is calculated based on the carrying value of the loans.

N/A Not Applicable

Valuation Techniques

Following is a description of valuation methodologies used for assets and liabilities recorded at fair value.

Consumer loans held for sale – Consumer loans held for sale are recorded at the lower of amortized cost or fair value. The fair value of consumer loans held for sale is estimated using observed market prices of instruments with similar characteristics. Adjustments are made to reflect differences in collateral location, loan-to-value ratio, FICO scores, vintage year, default rates, the completeness of the loan documentation and other risk characteristics. Where observable market parameters are not available, fair value is estimated using the discounted cash flow method using assumptions consistent with those which would be used by market participants in valuing such loans, including estimates of prepayment rates, default rates, loss severities and market rates of return. We also may hold discussions on value directly with potential investors. For consumer loans transferred to held for sale during 2021, the fair value measurement processes use significant unobservable inputs to adjust market prices which are specific to the characteristics of the various loan portfolios.

Consumer loans held for sale designated under FVO – We previously elected to apply FVO accounting to certain student loans (which were subsequently transferred to held for sale during 2021). The fair value of these loans is based on observed market prices of instruments with similar characteristics.

Commercial loans held for sale - Commercial loans held for sale (that are not designated under FVO as discussed below) are recorded at the lower of amortized cost or fair value. The fair value of commercial loans held for sale is estimated using observable market pricing obtained from independent sources, relevant broker quotes or observed market prices of instruments with similar characteristics. We also may hold discussions on value directly with potential investors or take into account underlying collateral values. For certain commercial loans transferred to held for sale during the second quarter of 2021, the fair value measurement process used significant unobservable inputs to adjust market prices which are specific to the characteristics of the loan portfolio.

Commercial loans held for sale designated under FVO – We elected to apply FVO accounting to certain commercial loans held for sale at fair value. Where available, fair value is based on observable market pricing obtained from independent sources, relevant broker quotes or observed market prices of instruments with similar characteristics. Where observable market parameters are not available, fair value is determined based on contractual cash flows adjusted for estimates of prepayment rates, expected default rates and loss severity discounted at management's estimate of the expected rate of return required by market participants. We also consider loan-specific risk mitigating factors such as collateral arrangements in determining the fair value estimate.

Commercial loans individually assessed for impairment – Generally represents collateral-dependent commercial loans with fair value determined based on pricing quotes obtained from an independent third party appraisal.

Precious metals trading - Precious metals trading primarily includes physical inventory which is valued using spot prices.

Securities - Where available, debt and equity securities are valued based on quoted market prices. If a quoted market price for the identical security is not available, the security is valued based on quotes from similar securities, where possible. For certain securities, internally developed valuation models are used to determine fair values or validate quotes obtained from pricing services. The following summarizes the valuation methodology used for our major security classes:

- U.S. Treasury, U.S. Government agency issued or guaranteed and obligations of U.S. state and political subdivisions –
 As these securities transact in an active market, fair value measurements are based on quoted prices for the identical
 security or quoted prices for similar securities with adjustments as necessary made using observable inputs which are
 market corroborated.
- U.S. Government sponsored enterprises For government sponsored mortgage-backed securities which transact in an
 active market, fair value measurements are based on quoted prices for the identical security or quoted prices for similar
 securities with adjustments as necessary made using observable inputs which are market corroborated. For government
 sponsored mortgage-backed securities which do not transact in an active market, fair value is determined primarily
 based on pricing information obtained from pricing services and is verified by internal review processes.
- Asset-backed securities Fair value is primarily determined based on pricing information obtained from independent pricing services adjusted for the characteristics and the performance of the underlying collateral.
- Foreign debt securities (government and corporate) Government securities transact in an active market and therefore fair value measurements are based on quoted prices for the identical security or quoted prices for similar securities with adjustments as necessary made using observable inputs which are market corroborated. For non-callable corporate securities, a credit spread scale is created for each issuer. These spreads are then added to the equivalent maturity U.S. Treasury yield to determine current pricing. Credit spreads are obtained from the primary market, secondary trading levels and dealer quotes. For securities with early redemption features, an option adjusted spread model is incorporated to adjust the spreads determined above. Additionally, we survey the broker/dealer community to obtain relevant trade data including benchmark quotes and updated spreads.
- Equity securities Fair value measurements are determined based on quoted prices for the identical security. Certain equity securities represent investments in private equity funds that help us comply with the Community Reinvestment Act. The fair value of these investments are estimated using the net asset value per share as calculated by the fund managers. Distributions will be received from the funds as the underlying assets are liquidated. While the funds do not allow us to redeem our investments, we are permitted to sell or transfer our investments subject to the approval of the fund manager. Unfunded commitments associated with these investments totaled \$27 million and \$29 million at June 30, 2022 and December 31, 2021, respectively.

The following tables provide additional information relating to our available-for-sale asset-backed securities at June 30, 2022:

Rating of Securities:(1)	Collateral Type:	Le	evel 3
		(in m	nillions)
AAA - A	Home equity - Alt A	\$	16
BBB - B	Other		97
		\$	113

⁽¹⁾ We utilize S&P as the primary source of credit ratings in the tables above. If S&P ratings are not available, ratings by Moody's and Fitch are used in that order.

Derivatives – Derivatives are recorded at fair value. Asset and liability positions in individual derivatives that are covered by legally enforceable master netting agreements, including receivables (payables) for cash collateral posted (received), are offset and presented net in accordance with accounting principles which allow the offsetting of amounts.

Derivatives traded on an exchange are valued using quoted prices. OTC derivatives, which comprise a majority of derivative contract positions, are valued using valuation techniques. The fair value for the majority of our derivative instruments are determined based on internally developed models that utilize independently corroborated market parameters, including interest rate yield curves, option volatilities, and currency rates. For complex or long-dated derivative products where market data is not available, fair value may be affected by the underlying assumptions about, among other things, the timing of cash flows, expected exposure, probability of default and recovery rates. The fair values of certain structured derivative products are sensitive to unobservable inputs such as correlations of the referenced variables and volatilities of embedded options. These estimates are susceptible to significant change in future periods as market conditions change.

We typically use the risk-free rate/overnight indexed swap curves as the base discounting curve for measuring the fair value of all derivatives, both collateralized and uncollateralized, and apply a FFVA to reflect the estimated present value of the future market funding cost or benefit associated with funding uncollateralized derivative exposure at an unsecured market funding rate. The FFVA is calculated by applying future market funding spreads to the expected future funding exposure of any

uncollateralized component of the OTC derivative portfolio. The expected future funding exposure is calculated by a simulation methodology, where available, and is adjusted for events that may terminate the exposure, such as the default of HUSI or the counterparty.

Significant inputs related to derivative classes are broken down as follows:

- Credit Derivatives Use credit default curves and recovery rates which are generally provided by broker quotes and various pricing services. Certain credit derivatives may also use correlation inputs in their model valuation.
- Interest Rate Derivatives Swaps use interest rate curves based on currency that are actively quoted by brokers and other pricing services. Options will also use volatility inputs which are also quoted in the broker market.
- Foreign Exchange ("FX") Derivatives FX transactions, to the extent possible, use spot and forward FX rates which are quoted in the broker market. Where applicable, we also use implied volatility of currency pairs as inputs.
- Equity Derivatives Use listed equity security pricing and implied volatilities from equity traded options position.
- Precious Metal Derivatives Use spot and forward metal rates which are quoted in the broker market.

As discussed earlier, we make fair value adjustments to model valuations in order to ensure that those values represent appropriate estimates of fair value. These adjustments, which are applied consistently over time, are generally required to reflect factors such as bid-ask spreads and counterparty credit risk that can affect prices in arms-length transactions with unrelated third parties. Such adjustments are based on management judgment and may not be observable.

We estimate the counterparty credit risk for financial assets and our own credit standing for financial liabilities (the "credit valuation adjustments") in determining the fair value measurement. For derivative instruments, we calculate the credit valuation adjustment by applying the probability of default of the counterparty to the expected exposure, and multiplying the result by the expected loss given default. We also take into consideration the risk mitigating factors including collateral agreements and master netting agreements in determining credit valuation adjustments. We estimate the implied probability of default based on the credit spread of the specific counterparty observed in the credit default swap market. Where credit default spread of the counterparty is not available, we use the credit default spread of a specific proxy (e.g., the credit default swap spread of the counterparty's parent) or a proxy based on credit default swaps referencing to credit names of similar credit standing.

Real estate owned - Fair value is determined based on third party appraisals obtained at the time we take title to the property and, if less than the carrying amount of the loan, the carrying amount of the loan is adjusted to the fair value. The carrying amount of the property is further reduced, if necessary, at least every 90 days to reflect observable local market data, including local area sales data.

Mortgage servicing rights - Mortgage servicing rights are recorded at fair value. The fair value for the mortgage servicing rights is determined based on a single rate path cash flow analysis approach which involves discounting servicing cash flows under static interest rate projections at risk-adjusted rates. The valuation model also incorporates our best estimates of the prepayment speed of the mortgage loans, current cost to service and discount rates which are unobservable.

Structured notes and deposits designated under FVO – Structured notes and deposits are hybrid instruments containing embedded derivatives and are elected to be measured at fair value in their entirety under FVO accounting principles. The valuation of hybrid instruments is predominantly driven by the derivative features embedded within the instruments and our own credit risk. The valuation of embedded derivatives may include significant unobservable inputs such as correlation of the referenced credit names or volatility of the embedded option. Cash flows of the funded notes and deposits in their entirety, including the embedded derivatives, are discounted at the relevant interest rates for the duration of the instrument adjusted for our own credit spreads. The credit spreads so applied are determined with reference to our own debt issuance rates observed in primary and secondary markets, internal funding rates, and the structured note rates in recent executions.

Long-term debt designated under FVO – We elected to apply FVO accounting to certain of our own debt issuances for which fair value hedge accounting otherwise would have been applied. These own debt issuances elected under FVO are traded in secondary markets and, as such, the fair value is determined based on observed prices for the specific instrument. The observed market price of these instruments reflects the effect of our own credit spreads. The credit spreads applied to these instruments were derived from the spreads at the measurement date.

Additional Disclosures About the Fair Value of Financial Instruments that are Not Carried at Fair Value on the Consolidated Balance Sheet The fair value estimates set forth below are made solely to comply with disclosures required by generally accepted accounting principles in the United States and should be read in conjunction with the financial statements and notes included in this report.

The carrying amount of certain financial instruments recorded at cost on the consolidated balance sheet is considered to approximate fair value because they are short-term in nature, bear interest rates that approximate market rates, and generally have negligible credit risk. These items include cash and due from banks, interest bearing deposits with banks, customer acceptance assets and liabilities, federal funds sold and purchased, securities purchased and sold under resale and repurchase

agreements, deposits with no stated maturity (e.g., demand, savings and certain money market deposits), short-term borrowings and dividends payable.

The following table summarizes the carrying value and estimated fair value of our financial instruments, excluding financial instruments that are carried at fair value on a recurring basis, at June 30, 2022 and December 31, 2021, and their classification within the fair value hierarchy:

Financial assets Financial assets, net of allowance for credit losses \$43,575 \$43,575 \$981 \$42,538 \$56 Federal funds sold and securities purchased under agreements to resell 4,941 4,941 — 4,941 — 5 Securities held-to-maturity, net of allowance for credit losses 4,666 4,512 — 4,512 — 5 Commercial loans, net of allowance for credit losses 44,196 45,385 — 7 45,385 Commercial loans held for sale 201 201 — 201 — 201 — 201 Consumer loans, net of allowance for credit losses 17,068 15,923 — 12 12,923 Consumer loans held for sale 94 94 — 112 82 Financial liabilities: 5,954 5,954 5,954 5,898 5,56 Deposits 125,245 125,226 — 125,226 — 125,226 Long-term debt 8,906 9,411 — 9,411 — 2 December 31, 2021	June 30, 2022	Carrying Value	Fair Value	Le	evel 1	Level 2	Level	3
Short-term financial assets, net of allowance for credit losses \$ 43,575 \$ 981 \$ 42,538 \$ 56 Federal funds sold and securities purchased under agreements to resell 4,941 4,941 — 4,941 — Securities held-to-maturity, net of allowance for credit losses 4,666 4,512 — 4,512 — Commercial loans, net of allowance for credit losses 44,196 45,385 — — 45,385 Commercial loans held for sale 201 201 — 201 — Consumer loans, net of allowance for credit losses 17,068 15,923 — — 15,923 Consumer loans held for sale 94 94 9 — 12 82 Financial liabilities: \$ 5,954 \$ 5,954 \$ 5,898 \$ 5,65 \$ 5,898 \$ 56 Deposits 125,245 125,226 — 125,226 — 125,226 — Long-term debt 8,906 9,411 — 4,941 — 4,941 — 4,941 — 4,512 — <th>Financial accets:</th> <th></th> <th></th> <th>(in n</th> <th>nillions)</th> <th></th> <th></th> <th></th>	Financial accets:			(in n	nillions)			
Federal funds sold and securities purchased under agreements to resell 4,941 4,941 4,941 — 4,941 — Securities held-to-maturity, net of allowance for credit losses 4,666 4,512 — 4,512 — Commercial loans, net of allowance for credit losses 44,196 45,385 — — 45,385 Commercial loans held for sale 201 201 — 201 — Consumer loans, net of allowance for credit losses 17,068 15,923 — — 15,923 Consumer loans held for sale 94 94 — 12 82 Financial liabilities: \$5,954 \$5,954 \$ 5,954 \$ 5,898 \$ 56 Deposits 125,245 125,226 — 125,226 — 125,226 — Long-term debt 8,906 9,411 — 9,411 — Pecember 31, 2021 — Carrying Value Fair Value Level 1 Level 2 Level 3 Financial assets: Short-term financial assets, net of allowance for credit losses		© 42 575	¢ 42 575	C	001	¢ 42 520	C	E (
resell 4,941 4,941 — 4,941 — Securities held-to-maturity, net of allowance for credit losses 4,666 4,512 — 4,512 — Commercial loans, net of allowance for credit losses 44,196 45,385 — — 45,385 Commercial loans held for sale 201 201 — 201 — Consumer loans, net of allowance for credit losses 17,068 15,923 — — 15,923 Consumer loans held for sale 94 94 — 12 82 Financial liabilities: S 5,954 \$ 5,954 \$ — \$ 5,898 \$ 56 Deposits 125,245 125,226 — 125,226 — 125,226 — Long-term debt 8,906 9,411 — 9,411 — 9,411 — December 31, 2021 Carrying Value Fair Value Level 1 Level 2 Level 3 Financial assets: Short-term financial assets, net of allowance for credit losses \$ 48,4		\$ 43,575	\$ 43,373	Þ	981	\$ 42,538	Э	30
Commercial loans, net of allowance for credit losses 44,196 45,385 — — 45,385 Commercial loans held for sale 201 201 — 201 — Consumer loans, net of allowance for credit losses 17,068 15,923 — — 15,923 Consumer loans held for sale 94 94 — 12 82 Financial liabilities: Short-term financial liabilities \$ 5,954 \$ 5,954 \$ — \$ 5,898 \$ 56 Deposits 125,245 125,226 — 125,226 — 125,226 — 125,226 — 9,411 — 9,411 — 9,411 — 9,411 — 9,411 — 9,411 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25,226 — 1,25		4,941	4,941		_	4,941		_
Commercial loans held for sale 201 201 — 201 — Consumer loans, net of allowance for credit losses 17,068 15,923 — — 15,923 Consumer loans held for sale 94 94 9 — 12 82 Financial liabilities: Short-term financial liabilities \$ 5,954 \$ 5,954 \$ - \$ 5,898 \$ 56 Deposits 125,245 125,226 — 125,226 — 125,226 — Long-term debt 8,906 9,411 — 9,411 — 9,411 — December 31, 2021 Carrying Value Fair Value Level 1 Level 2 Level 3 Financial assets: Short-term financial assets, net of allowance for credit losses \$ 48,404 \$ 48,404 \$ 954 \$ 47,400 \$ 50 Federal funds sold and securities purchased under agreements to	Securities held-to-maturity, net of allowance for credit losses	4,666	4,512		_	4,512		_
Consumer loans, net of allowance for credit losses 17,068 15,923 — — 15,923 Consumer loans held for sale 94 94 — 12 82 Financial liabilities: Short-term financial liabilities Short-term financial liabilities \$ 5,954 \$ 5,954 \$ — \$ 5,898 \$ 56 Deposits 125,245 125,226 — 125,226 — 125,226 — Long-term debt 8,906 9,411 — 9,411 — 9,411 — December 31, 2021 Carrying Value Fair Value Level 1 Level 2 Level 3 Financial assets: Short-term financial assets, net of allowance for credit losses \$ 48,404 \$ 48,404 \$ 954 \$ 47,400 \$ 50 Federal funds sold and securities purchased under agreements to	Commercial loans, net of allowance for credit losses	44,196	45,385		_	_	45,3	885
Consumer loans held for sale 94 94 94 — 12 82 Financial liabilities: Short-term financial liabilities \$ 5,954 \$ 5,954 \$ 5,954 \$ - \$ 5,898 \$ 56 Deposits 125,245 125,226 — 125,226 — 125,226 — 9,411 — 9,411 — — 9,411 — 9,411 — — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 9,411 — 9,411 — 9,411 — — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,226 — 125,2	Commercial loans held for sale	201	201		_	201		_
Financial liabilities: Short-term financial liabilities Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial assets, net of allowance for credit losses Short-term financial liabilities Sh	Consumer loans, net of allowance for credit losses	17,068	15,923		_	_	15,9	23
Short-term financial liabilities \$ 5,954 \$ 5,954 \$ \$ 5,898 \$ \$ 5,898 \$ \$ 5,898 \$ \$ 5,898 \$ \$ 5,954 \$ \$ \$ 5,898 \$ \$ 5,994 \$ \$ 5,898 \$ \$ 5,898 \$ \$ 5,898 \$ \$ 5,994 \$ \$ 5,898 \$ \$ 5,898 \$ \$ 5,994 \$.	Consumer loans held for sale	94	94		_	12		82
Deposits 125,245 125,226 — 125,226 — Long-term debt 8,906 9,411 — 9,411 — December 31, 2021 Carrying Value Value Value Level 1 Level 2 Level 3 Financial assets: Short-term financial assets, net of allowance for credit losses \$48,404 \$48,404 \$954 \$47,400 \$50 Federal funds sold and securities purchased under agreements to	Financial liabilities:							
Long-term debt 8,906 9,411 — 9,411 — December 31, 2021 Carrying Value Value Level 1 Level 2 Level 3 Carrying Value Fair Value Level 1 Level 2 Level 3	Short-term financial liabilities	\$ 5,954	\$ 5,954	\$	_	\$ 5,898	\$	56
Carrying Value Fair Value Level 1 Level 2 Level 3 Financial assets: Short-term financial assets, net of allowance for credit losses \$48,404 \$48,404 \$954 \$47,400 \$50 Federal funds sold and securities purchased under agreements to	Deposits	125,245	125,226			125,226		_
December 31, 2021ValueValueLevel 1Level 2Level 3(in millions)Financial assets:Short-term financial assets, net of allowance for credit losses\$ 48,404\$ 48,404\$ 954\$ 47,400\$ 50Federal funds sold and securities purchased under agreements to	Long-term debt	8,906	9,411		_	9,411		_
(in millions) Financial assets: Short-term financial assets, net of allowance for credit losses\$ 48,404 \$ 48,404 \$ 954 \$ 47,400 \$ 50 Federal funds sold and securities purchased under agreements to	December 31, 2021			Le	evel 1	Level 2	Level	3
Short-term financial assets, net of allowance for credit losses \$ 48,404 \$ 48,404 \$ 954 \$ 47,400 \$ 50 Federal funds sold and securities purchased under agreements to				(in r	nillions)			
Federal funds sold and securities purchased under agreements to	Financial assets:							
		\$ 48,404	\$ 48,404	\$	954	\$ 47,400	\$	50
10501		10.514	10.514			10.514		
		,				ŕ		_
5,200		5.203	5,359		_	5,359	20.0	
5,,002	•	,	20.062					862
	Commercial loans, net of allowance for credit losses	39,376	39,862		_	250		0.4
,	Commercial loans, net of allowance for credit losses Commercial loans held for sale	39,376 438	443		_	359	Ź	84
2,701 2,009	Commercial loans, net of allowance for credit losses Commercial loans held for sale Consumer loans, net of allowance for credit losses	39,376 438 16,041	443 15,672		_ _ _	_	15,6	572
	Commercial loans, net of allowance for credit losses Commercial loans held for sale Consumer loans, net of allowance for credit losses Consumer loans held for sale	39,376 438 16,041	443		_ _ _	359 — 77	15,6	572
· -y · · -y · ·	Commercial loans, net of allowance for credit losses Commercial loans held for sale Consumer loans, net of allowance for credit losses Consumer loans held for sale Financial liabilities:	39,376 438 16,041 3,731	443 15,672 3,809	¢	_ _ _ _	— 77	15,6 3,7	572 732
- / / / /	Commercial loans, net of allowance for credit losses Commercial loans held for sale Consumer loans, net of allowance for credit losses Consumer loans held for sale Financial liabilities: Short-term financial liabilities	39,376 438 16,041 3,731 \$ 6,389	443 15,672 3,809 \$ 6,389	\$	_ _ _ _	77 \$ 6,338	15,6	572
Long-term debt 8,294 8,861 — 8,861 —	Commercial loans, net of allowance for credit losses Commercial loans held for sale Consumer loans, net of allowance for credit losses Consumer loans held for sale Financial liabilities:	39,376 438 16,041 3,731 \$ 6,389 131,533	443 15,672 3,809	\$		— 77	15,6 3,7	572 732

Lending-related commitments - The fair value of loan commitments, revolving credit facilities and standby letters of credit are not included in the above table. The majority of the lending-related commitments are not carried at fair value on a recurring basis nor are they actively traded. These instruments generate fees, which approximate those currently charged to originate similar commitments, which are recognized over the term of the commitment period. Deferred fees on loan commitments, revolving credit facilities and standby letters of credit totaled \$155 million and \$151 million at June 30, 2022 and December 31, 2021, respectively.

20. Litigation and Regulatory Matters

The following supplements, and should be read together with, the disclosure in Note 30, "Litigation and Regulatory Matters," in our 2021 Form 10-K and in Note 20, "Litigation and Regulatory Matters," in our Form 10-Q for the three-month period ended March 31, 2022 (the "2022 First Quarter Form 10-Q"). Only those matters with significant updates and new matters since our disclosure in our 2021 Form 10-K and our 2022 First Quarter Form 10-Q are reported herein.

In addition to the matters described below and in our 2021 Form 10-K and our 2022 First Quarter Form 10-Q, in the ordinary course of business, we are routinely named as defendants in, or as parties to, various legal actions and proceedings relating to activities of our current and/or former operations. These legal actions and proceedings may include claims for substantial or indeterminate compensatory or punitive damages, or for injunctive relief. In the ordinary course of business, we also are subject to governmental and regulatory examinations, information-gathering requests, investigations and proceedings (both formal and informal), certain of which may result in adverse judgments, settlements, fines, penalties, injunctions or other relief. In connection with formal and informal inquiries by these regulators, we receive numerous requests, subpoenas and orders seeking documents, testimony and other information in connection with various aspects of our regulated activities.

Due to the inherent unpredictability of legal matters, including litigation, governmental and regulatory matters, particularly where the damages sought are substantial or indeterminate or when the proceedings or investigations are in the early stages, we cannot determine with any degree of certainty the timing or ultimate resolution of such matters or the eventual loss, fines, penalties or business impact, if any, that may result. We establish reserves for litigation, governmental and regulatory matters when those matters present loss contingencies that are both probable and can be reasonably estimated. Once established, reserves are adjusted from time to time, as appropriate, in light of additional information. The actual costs of resolving litigation and regulatory matters, however, may be substantially higher than the amounts reserved for those matters. Some of our exposure may be offset by applicable insurance coverage. We do not consider the possible availability of insurance coverage in determining the amounts of any accruals (although we record the amount of related insurance recoveries that are deemed probable up to the amount of the accrual).

For the legal matters disclosed below, including litigation and governmental and regulatory matters, as well as for the legal matters disclosed in Note 30, "Litigation and Regulatory Matters," in our 2021 Form 10-K and in Note 20, "Litigation and Regulatory Matters," in our 2022 First Quarter Form 10-Q, as to which a loss in excess of accrued liability is reasonably possible in future periods and for which there is sufficient currently available information on the basis of which management believes it can make a reliable estimate, we believe a reasonable estimate could be as much as \$150 million for HUSI. The legal matters underlying this estimate of possible loss will change from time to time and actual results may differ significantly from this current estimate.

In addition, based on the facts currently known for each of the ongoing investigations disclosed in Note 30, "Litigation and Regulatory Matters," in our 2021 Form 10-K and in Note 20, "Litigation and Regulatory Matters," in our 2022 First Quarter Form 10-Q, it is not practicable at this time for us to determine the terms on which these ongoing investigations will be resolved or the timing of such resolution. As matters progress, it is possible that any fines and/or penalties could be significant.

Given the substantial or indeterminate amounts sought in certain of these matters, and the inherent unpredictability of such matters, an adverse outcome in certain of these matters could have a material adverse effect on our consolidated financial statements in any particular quarterly or annual period.

Foreign Exchange Matters

Nypl v. JPMorgan Chase, et al. The Plaintiffs filed a notice of appeal of the court's decision denying their motion for class certification.

Precious Metals Fix Matters

In re Commodity Exchange Inc., Gold Futures and Options Trading Litigation (Gold Fix Litigation) In May 2022, the court granted final approval of the settlement.

Madoff Litigation Fairfield Sentry Limited, Fairfield Sigma Limited and Fairfield Lambda Limited (together "Fairfield"), funds whose assets were directly or indirectly invested with Madoff Securities, commenced multiple suits in the United States against numerous fund shareholders, including various HSBC companies that acted as nominees for clients of HSBC's private banking business and other clients who invested in the Fairfield funds, seeking restitution of payments made in connection with share redemptions. Fairfield voluntarily discontinued the claims against HSBC Bank USA in May 2022 in the remaining case in which it was named (*In re Fairfield Sentry Limited, et al*).

Benchmark Rate Litigation

Intercontinental Exchange ("ICE") LIBOR Plaintiffs did not seek further review of the appellate court's dismissal of plaintiffs' appeal, so the matter is now concluded.

Mortgage Securitization Trust Litigation HSBC Bank USA reached agreements in principle to settle actions brought by RMBS Recovery Holdings I, LLC and IKB Bank AG. The net impact of the settlements will not be material to our results of operations.

21. New Accounting Pronouncements

The following are new accounting pronouncements issued by the Financial Accounting Standards Board which will be adopted in future periods:

Accounting Standards Update	Summary of Guidance	Financial Statement Impact
Troubled Debt Restructurings and Vintage Disclosures Issued March 2022 •	Eliminates the accounting guidance for TDR Loans by creditors, while enhancing disclosure requirements for certain loan refinancings and restructurings by creditors made to borrowers experiencing financial difficulty. Requires new disclosure of current-period gross charge-offs by year of origination for loans. Should be applied prospectively, with the exception of the guidance related to the recognition and measurement of TDR Loans which may be applied by recording a cumulative effect adjustment to retained earnings as of the beginning of the first reporting period in which the guidance is effective.	 Effective for all annual and interim periods beginning January 1, 2023, with early adoption permitted. We are currently evaluating the impact of adopting this guidance.

There have been no additional accounting pronouncements issued that are expected to have or could have a material impact on our consolidated financial statements.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Forward-Looking Statements

Certain matters discussed throughout this Form 10-Q are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. In addition, we may make or approve certain statements in future filings with the United States Securities and Exchange Commission ("SEC"), in press releases, or oral or written presentations by representatives of HSBC USA Inc. ("HSBC USA" and, together with its subsidiaries, "HUSI") that are not statements of historical fact and may also constitute forward-looking statements. Words such as "may," "will," "should," "would," "could," "appears," "believe," "intends," "expects," "estimates," "targeted," "plans," "anticipates," "goal," and similar expressions are intended to identify forward-looking statements but should not be considered as the only means through which these statements may be made. All discussions related to strategy, including the matters discussed under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations - Executive Overview" and discussions of those matters elsewhere in this Form 10-Q are forward-looking statements. These matters or statements will relate to our future structure, operations, strategy, financial condition, economic forecast, results of operations, plans, objectives, performance or business developments and will involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from that which was expressed or implied by such forward-looking statements.

All forward-looking statements are, by their nature, subject to risks and uncertainties, many of which are beyond our control. Our actual future results may differ materially from those set forth in our forward-looking statements. While there is no assurance that any list of risks and uncertainties or risk factors is complete, below are certain factors which could cause actual results to differ materially from those in the forward-looking statements:

- the impact of the coronavirus ("COVID-19") pandemic, including the emergence of new variants;
- our ability to effectively implement and deliver on our business strategies, and the effect implementation of our business strategy may have on our financial results, operations and relationships with our customers, regulators, employees and other stakeholders;
- uncertainty concerning the future market and economic conditions in the United States and abroad, including but not
 limited to, changes in interest rates, energy prices, inflation, supply chain issues, a decline in housing prices, the
 availability of credit and liquidity, unemployment levels, changes in consumer confidence and consumer spending and
 behavior, consumer perception as to the continuing availability of credit and price competition in the market segments
 we serve and the consequences of unexpected geopolitical events, such as trade disputes;
- compliance with the Chinese National Security Law and the Hong Kong Autonomy Act, which may impact, among other things, individuals or entities with which we are able to conduct business;
- changes in laws and regulatory requirements;
- the potential impact of any legal, regulatory or policy changes affecting financial institutions and the global economy as a result of the new administration;
- the ability to deliver on our regulatory priorities;
- capital and liquidity requirements under Basel guidance, the Federal Reserve Board's ("FRB") Comprehensive Capital
 Analysis and Review ("CCAR") program, and the Dodd-Frank Wall Street Reform and Consumer Protection Act of
 2010 ("Dodd-Frank Act" or "Dodd-Frank") stress testing ("DFAST"), including the U.S. FRB requirements for U.S.
 global systemically important banks ("G-SIBs") and U.S. intermediate holding companies ("IHCs") owned by nonU.S. G-SIBs to issue total loss-absorbing capacity ("TLAC") instruments;
- regulatory requirements in the U.S. and in non-U.S. jurisdictions to facilitate the future orderly resolution of large financial institutions;
- changes in central banks' policies with respect to the provision or removal of liquidity support to financial markets;
- the ability of HSBC Holdings plc ("HSBC" and, together with its subsidiaries, "HSBC Group") and HSBC Bank USA, National Association (together with its subsidiaries, "HSBC Bank USA") to fulfill the requirements imposed by applicable consent orders or guidance from regulators generally;
- the use of us as a conduit for illegal activities without our knowledge by third parties;
- the ability to successfully manage our risks;
- the possibility of the inadequacy of our data management and policies and processes;
- the financial condition of our clients and counterparties and our ability to manage counterparty risk;
- concentrations of credit and market risk;

- increases in our allowance for credit losses and changes in our assessment of our loan portfolios;
- the ability to successfully implement changes to our operational practices as needed and/or required from time to time;
- damage to our reputation;
- the ability to attract or retain key employees, including foreign workers, and customers;
- the effects of competition in the markets where we operate including increased competition from non-bank financial services companies, including securities firms;
- the effects of operational risks that are inherent in banking operations, including fraudulent and other criminal activities, breakdowns in processes or procedures and systems failure or non-availability;
- disruption in our operations from the external environment arising from events such as natural disasters, outbreaks of contagious disease, acts of war, terrorist attacks, or essential utility outages;
- risks associated with Environmental, Social and Governance ("ESG") matters such as climate change and human rights violations;
- a failure in or a breach of our operation or security systems or infrastructure, or those of third party servicers or vendors, including as a result of cyberattacks;
- the ability of third party suppliers, outsourcing vendors, off-shored functions and our affiliates to provide adequate services;
- losses suffered due to the negligence, fraud or misconduct of our employees or the negligence, fraud or misconduct on the part of third parties;
- a failure in our internal controls;
- our ability to meet our funding requirements;
- adverse changes to our credit ratings;
- financial difficulties or credit downgrades of mortgage bond insurers;
- changes in Financial Accounting Standards Board and International Accounting Standards Board ("IASB") accounting standards and their interpretation;
- heightened regulatory and government enforcement scrutiny of financial institutions, including in connection with product governance and sales practices, account opening and closing procedures, customer and employee complaints and sales compensation structures related to such practices;
- possible negative impact of regulatory investigations and legal proceedings related to alleged foreign exchange manipulation;
- changes in the methodology for determining benchmark rates and the implementation of alternative benchmark rates, such as the Secured Overnight Financing Rate ("SOFR");
- heightened regulatory and government enforcement scrutiny of financial markets, with a particular focus on traded asset classes, including foreign exchange;
- the possibility of incorrect assumptions or estimates in our financial statements, including reserves related to litigation, deferred tax assets and the fair value of certain assets and liabilities;
- model limitations or failure:
- the possibility of incorrect interpretations, application of or changes in tax laws to which we and our clients are subject;
- unexpected and/or increased expenses relating to, among other things, litigation and regulatory matters, remediation efforts, penalties and fines; and
- the other risk factors and uncertainties described under Item 1A, "Risk Factors," in our Annual Report on Form 10-K for the year ended December 31, 2021 (the "2021 Form 10-K").

Forward-looking statements are based on our current views and assumptions and speak only as of the date they are made. We undertake no obligation to update any forward-looking statement to reflect subsequent circumstances or events. You should, however, consider any additional disclosures of a forward-looking nature that arise after the date hereof as may be discussed in any of our subsequent Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q or Current Reports on Form 8-K.

Executive Overview

HSBC USA is a wholly-owned subsidiary of HSBC North America Holdings Inc. ("HSBC North America"), which is an indirect wholly-owned subsidiary of HSBC. HUSI may also be referred to in Management's Discussion and Analysis of Financial Condition and Results of Operations ("MD&A") as "we," "us" or "our."

Economic Environment U.S. economic activity slowed during the first half of 2022. U.S. Gross Domestic Product ("GDP") contracted at an estimated annual rate of 0.9 percent in the second quarter of 2022. Repercussions from the Russia-Ukraine war alongside the economic impacts that continue to result from the COVID-19 pandemic have disrupted supply chains and increased energy prices. There has also been a significant rise in inflation, which reached a 40-year high in June. The personal consumption expenditures price index increased to an estimated annual rate of 6.8 percent in the second quarter of 2022, well above the FRB's target inflation rate. The FRB increased short-term interest rates by a total of 150 basis points during the first half of 2022 and has announced that it will increase short-term interest rates further during the second half of 2022 in order to fight inflation.

These conditions have created significant uncertainty about the future economic environment which will continue to evolve and impact our business in future periods. While our credit risk exposure to Russia was immaterial at June 30, 2022, it is difficult to anticipate the full effect of sanctions announced to date on our business and on our customers. Concerns over interest rate levels, energy prices, domestic and global policy issues, trade policy in the U.S. and geopolitical events, as well as the implications of those events on the markets in general, further add to the global uncertainty. There is also a risk that interest rate increases to fight inflation could lead to a recession. Interest rate levels and energy prices, in combination with global economic conditions, fiscal and monetary policy and the level of regulatory and government scrutiny of financial institutions will continue to impact our results in 2022 and beyond.

Performance, Developments and Trends We continue to progress our strategic plan to restructure our operations ("Restructuring Plan") as discussed further in Note 2, "Strategic Initiatives," in the accompanying consolidated financial statements. We remain committed to our multi-year strategic plan to re-profile our business.

As previously announced, in February 2022, we completed the sale of the branch disposal group associated with the exit of our mass market retail banking business to third parties and recognized a gain on sale of approximately \$111 million, net of transaction costs. See Note 3, "Branch Assets and Liabilities Held for Sale," in the accompanying consolidated financial statements for additional information.

In addition to the branch disposal group discussed above, during the first quarter of 2022, we sold a portfolio of consumer loans consisting primarily of certain non-performing mortgage loans and government-backed mortgage loans that we previously transferred to held for sale in 2021 as part of our Restructuring Plan. These mortgage loans had a carrying value of \$904 million, including \$865 million of residential mortgages and \$39 million of home equity mortgages, and we recognized a loss on sale of \$35 million, largely reflecting changes in the final terms of the sale.

The following tables set forth selected financial metrics of HUSI for the three and six months ended June 30, 2022 and 2021 and at June 30, 2022 and December 31, 2021:

		onths Ended ne 30,		hs Ended e 30,
	2022	2021	2022	2021
		(dollars are	in millions)	
Net income	\$ 90	\$ 193	\$ 291	\$ 532
Rate of return on average:				
Total assets	.2 %	.4 %	.3 %	.5 %
Common equity	1.4 %	3.7 %	3.4	5.9
Tangible common equity ⁽¹⁾	1.5	3.8	3.5	6.1
Total equity	2.3	4.3	3.6	5.9
Net interest margin	1.32	1.14	1.21	1.16
Efficiency ratio	79.2	97.0	75.0	85.2
Commercial net charge-off ratio ⁽²⁾	.01	.25	.08	.13
Consumer net charge-off ratio ⁽²⁾	(.12)	1.66	(.11)	.98

(1) The following table provides a reconciliation of average common equity to average tangible common equity:

	1	hree Mon Jun			Six Mont Jun	
		2022	2021		2022	2021
			(in mi	illio	ns)	
Common equity	\$	14,532	\$ 16,810	\$	15,018	\$ 16,875
Less: Goodwill		458	458		458	458
Less: Intangible assets - purchased credit card relationships		_	6		_	6
Tangible common equity	\$	14,074	\$ 16,346	\$	14,560	\$ 16,411

(2) Excludes loans held for sale.

	June 30, 2022	December 31, 2021
Additional Select Ratios:		
Allowance as a percent of loans ⁽¹⁾	.86 %	.80 %
Commercial allowance as a percent of loans ⁽¹⁾	1.12	1.06
Consumer allowance as a percent of loans ⁽¹⁾	.20	.17
Loans to deposits ratio ⁽²⁾	48.52	41.69
Common equity Tier 1 capital to risk-weighted assets	15.0	15.1
Tier 1 capital to risk-weighted assets	16.2	16.3
Total capital to risk-weighted assets	18.4	18.5
Tier 1 leverage ratio	9.8	8.5
Total equity to total assets	9.1	9.0

⁽¹⁾ Excludes loans held for sale.

Net income was \$90 million and \$291 million during the three and six months ended June 30, 2022, respectively, compared with \$193 million and \$532 million during the three and six months ended June 30, 2021, respectively. Income before income tax was \$113 million and \$379 million during the three and six months ended June 30, 2022, respectively, compared with \$254 million and \$714 million during the three and six months ended June 30, 2021, respectively. The decrease in income before income tax during the three and six months ended June 30, 2022 was due primarily to a higher provision for credit losses which reflected loss provisions in the current year periods driven by the weakening of economic conditions compared with releases in credit loss reserves in the prior year periods driven by improved economic conditions and the impact of our decision to exit our mass market retail banking business which resulted in a release of credit loss reserves and a reduction to the provision for credit losses of approximately \$101 million during the second quarter of 2021. This decrease was partially offset by lower operating expenses and higher other revenues driven by higher trading revenue and, in the year-to-date period, the gain on sale of the branch disposal group as discussed above. While net interest income was lower and contributed to the decrease in the year-to-date period, it was higher in the three-month period.

Our reported results in all periods were impacted by certain items management believes to be significant, which affect comparability between periods. Significant items are excluded to arrive at adjusted performance because management would ordinarily identify and consider them separately to better understand underlying business trends. The following table summarizes the impact of these significant items for all periods presented:

	Th	Three Months Ended June 30,				Six Months End June 30,		ıded
	2	2022	2	2021		2022	2	2021
				(in mi	illion	s)		
Income before income tax, as reported	\$	113	\$	254	\$	379	\$	714
Costs to achieve ⁽¹⁾		69		129		152		154
Gain on sale of branch disposal group, net		_				(111)		_
Loss related to Visa Inc. Class B common shares previously sold ⁽²⁾		31		_		31		_
Adjusted performance ⁽³⁾	\$	213	\$	383	\$	451	\$	868

⁽¹⁾ Reflects costs related to the delivery of our Restructuring Plan. Costs to achieve primarily consists of lease impairment and other related costs, severance costs, allocated costs from HSBC Technology & Services ("HTSU"), and in the prior year periods, trading losses associated with the exit of certain derivative contracts. See Note 2, "Strategic Initiatives," in the accompanying consolidated financial statements for a more detailed discussion of these

⁽²⁾ Represents period end loans, net of allowance for loan losses, as a percentage of total deposits.

costs. The expense during the three and six months ended June 30, 2022 also includes \$25 million and \$42 million, respectively, of allocated costs from other HSBC affiliates related to the HSBC Group's restructuring activities as well as a loss of \$3 million on the sale of certain global banking loans and, in the year-to-date period, a loss of \$35 million on the sale of a portfolio of consumer mortgage loans. The expense during the three and six months ended June 30, 2021 also includes \$11 million and \$18 million, respectively, of allocated costs from other HSBC affiliates related to the HSBC Group's restructuring activities.

- Reflects a loss on the swap agreements we entered into to retain the litigation risk associated with the Visa Inc. ("Visa") Class B common shares ("Class B Shares") we sold to a third party in 2016 and 2017. The loss recorded in the second quarter of 2022 related to an increase in the expected timing of the final resolution of the related litigation and, to a lesser extent, a change in the Visa Class B Share conversion rate. See Note 18, "Guarantee Arrangements, Pledged Assets and Repurchase Agreements," in the accompanying consolidated financial statements for additional information.
- (3) Represents a non-U.S. GAAP financial measure.

Excluding the impact of the items in the table above, our adjusted performance during the three and six months ended June 30, 2022 decreased \$170 million and \$417 million, respectively, compared with the prior year periods due primarily to a higher provision for credit losses as discussed above. This decrease was partially offset by lower operating expenses and higher other revenues driven by higher trading revenue. While net interest income was lower and contributed to the decrease in the year-to-date period, it was higher in the three-month period.

See "Results of Operations" for a more detailed discussion of our operating trends. In addition, see "Balance Sheet Review" for further discussion on our asset and liability trends, "Liquidity and Capital Resources" for further discussion on funding and capital and "Credit Quality" for additional discussion on our credit trends.

London Interbank Offered Rate ("LIBOR") Transition Regulators and central banks in various national jurisdictions continue to actively work to help transition from interbank offered rates to acceptable alternative rates, such as the Secured Overnight Financing Rate ("SOFR") recommended by the Alternative Reference Rates Committee convened by the FRB. In March 2022, the Adjustable Interest Rate Act ("LIBOR Act") was signed into law in order to provide a federal solution for replacing USD LIBOR with a SOFR-based rate in certain legacy LIBOR-based contracts. Under the LIBOR Act, the FRB is required to issue a regulation within 180 days identifying which version of SOFR will apply. This federal legislation is expected to facilitate the transition of certain of our legacy LIBOR-based contracts which do not specify a replacement rate or contain an adequate fallback mechanism.

We continue to actively participate in HSBC's global transition program with the objective of facilitating an orderly transition of all products, processes, models and curves, as well as all legacy LIBOR-based contracts, onto replacement rates. The current focus of our client transition efforts is on those remaining contracts that will be impacted by USD LIBOR tenors ceasing or becoming non-representative immediately after June 30, 2023. Such contracts outstanding at June 30, 2022 included contracts for non-derivative financial assets with a carrying value of approximately \$21.8 billion, primarily consisting of USD LIBOR-based long-term debt (\$1.0 billion of which is already set to transition to SOFR as of July 1, 2023), and contracts for USD LIBOR-based derivatives with a notional value of approximately \$22.6 billion. The substantial majority of our outstanding USD LIBOR-based derivative contracts adhere to and are covered by the International Swaps and Derivatives Association fallback protocol.

The ability of HUSI and its clients to transition legacy contracts onto replacement rates is dependent on the availability of products that reference replacement rates, including SOFR, and on our customers being ready and able to adapt their own processes and systems to accommodate the replacement products. Market readiness in support of USD LIBOR transition could slow the transition and we remain prepared that the transition of outstanding contracts could be concentrated in late 2022 and the first half of 2023. We continue to engage with industry participants, the official sector and our clients to support an orderly transition and the mitigation of the risks resulting from the transition. For further discussion of our LIBOR transition program and the associated risks, see "Executive Overview" in MD&A in our 2021 Form 10-K.

Basis of Reporting

Our consolidated financial statements are prepared in accordance with accounting principles generally accepted in the United States ("U.S. GAAP").

Group Reporting Basis We report financial information to HSBC in accordance with HSBC Group accounting and reporting policies, which apply International Financial Reporting Standards ("IFRSs") as issued by the IASB. As a result, our segment results are prepared and presented using financial information prepared on the basis of HSBC Group's accounting and reporting policies ("Group Reporting Basis"). Because operating results on the Group Reporting Basis are used in managing our businesses and rewarding performance of employees, our management also separately monitors profit before tax under this basis of reporting. The following table reconciles our U.S. GAAP versus Group Reporting Basis profit before tax:

	Th	Three Months Ended June 30,			l Six Month June			
	2	2022 2021			021 2022			2021
				(in m	illion	s)		
Profit before tax – U.S. GAAP basis	\$	113	\$	254	\$	379	\$	714
Adjustments:								
Expected credit losses		22		(49)		74		(188)
Other long-lived assets		12		29		23		39
Loans held for sale		11		(96)		6		(104)
Renewable energy tax credit investments		6		5		13		9
Pension and other postretirement benefit costs		_		(1)		(3)		(5)
Other		(4)		_		1		2
Profit before tax – Group Reporting Basis	\$	160	\$	142	\$	493	\$	467

The significant differences between U.S. GAAP and the Group Reporting Basis as they impact our results are summarized in Note 25, "Business Segments," in our 2021 Form 10-K. There have been no significant changes since December 31, 2021 in the differences between U.S. GAAP and the Group Reporting Basis impacting our results. Differences in reported profit before tax in the table above that were individually significant for the periods presented are explained below.

During the three and six months ended June 30, 2022, expected credit losses were higher under U.S. GAAP than under the Group Reporting Basis. Under the Group Reporting Basis, a majority of our loans are considered to be in "stage 1" (which requires a 12-month expected credit losses estimate), while under U.S. GAAP such loans require a lifetime expected credit losses ("ECL") estimate. Primarily as a result of the different requirements, loss provisions driven by the weakening of economic conditions, including a worsening of economic forecasts in the three-month period, as well as higher provisions associated with loan growth and maturity extensions were more pronounced under U.S. GAAP.

During the three and six months ended June 30, 2021, expected credit losses were lower under U.S. GAAP than under the Group Reporting Basis. Primarily as a result of the different requirements related to stage 1 loans discussed above, releases in credit reserves driven by improved economic conditions, which resulted in improved economic forecasts as well as client paydowns, were more pronounced under U.S. GAAP.

During the three and six months ended June 30, 2022 and 2021, amortization expense for long-lived assets was higher under U.S. GAAP. During the third quarter of 2020, we recorded an impairment charge under the Group Reporting Basis related to the write-off of all the capitalized software and a portion of the leasehold improvements primarily associated with our Wealth and Personal Banking business segment, while under U.S. GAAP, no impairment charge was required. Consequently, the carrying amounts for capitalized software and leasehold improvements are higher under U.S. GAAP than under the Group Reporting Basis and, as a result, corresponding amortization expense is higher under U.S. GAAP. In addition, during the second quarter of 2021, we determined we would exit certain branches as part of our Restructuring Plan and, as a result, we recorded an impairment charge of \$18 million under U.S. GAAP to write-off the leasehold improvements associated with these branches. These leasehold improvements were previously written-off under the Group Reporting Basis as discussed above.

During the six months ended June 30, 2022, loans held for sale in the table above reflects a higher gain on loan sales under the Group Reporting Basis than under U.S. GAAP, which includes the gain on sale of the branch disposal group. The higher gain under the Group Reporting Basis was due primarily to the releases of credit loss reserves previously recorded on the loans under U.S. GAAP when they were transferred to held for sale in 2021. Also contributing to the higher gain under the Group Reporting Basis was the higher carrying amount of leasehold improvements associated with the sold branches under U.S. GAAP at the time of sale. These leasehold improvements were previously determined to be impaired and written-off under the Group Reporting Basis as discussed above.

During the three and six months ended June 30, 2021, we transferred certain loans to held for sale which under U.S. GAAP requires the loans to be carried at the lower of amortized cost or fair value which resulted in a release of credit loss reserves on the loans. Under the Group Reporting Basis, loans held for sale continue to be accounted for and credit losses continue to be measured in accordance with IFRS 9, "Financial Instruments," with any gain or loss recorded at the time of sale. In addition, a portion of the loans transferred under U.S. GAAP did not meet the more stringent criteria for held for sale classification under the Group Reporting Basis.

Balance Sheet Review

The following table provides balance sheet totals at June 30, 2022 and increases (decreases) since December 31, 2021:

				Increase (Decrease December 31	
	Ju	ne 30, 2022		Amount	%
		(0	lollar	s are in millions)	
Period end assets:					
Short-term investments	- \$	48,460	\$	(10,408)	(17.7)%
Loans, net		61,264		5,847	10.6
Loans held for sale		489		(3,728)	(88.4)
Trading assets		18,708		(5,335)	(22.2)
Securities		35,728		(4,773)	(11.8)
All other assets		6,583		397	6.4
	\$	171,232	\$	(18,000)	(9.5)%
Period end liabilities and equity:					
Total deposits	. \$	127,263	\$	(15,769)	(11.0)%
Trading liabilities		3,766		743	24.6
Short-term borrowings		5,898		(440)	(6.9)
Long-term debt		16,026		(1,210)	(7.0)
Interest, taxes and other liabilities		2,742		179	7.0
Total equity		15,537		(1,503)	(8.8)
	\$	171,232	\$	(18,000)	(9.5)%

Short-Term Investments Short-term investments include cash and due from banks, interest bearing deposits with banks and federal funds sold and securities purchased under agreements to resell. Balances may fluctuate from period to period depending upon our liquidity position at the time and our strategy for deploying liquidity. Short-term investments decreased compared with December 31, 2021 due primarily to lower deposits and higher loans as discussed in detail below as well as completion of the sale of the branch disposal group during the first quarter of 2022 which resulted in a net cash payment to the buyers. These decreases were partially offset by net sales of trading security positions and securities available-for-sale.

Loans, Net The following table summarizes our loan balances at June 30, 2022 and increases (decreases) since December 31, 2021:

June 30, 2022 Amount % Commercial loans: Real estate, including construction \$ 8,791 \$ 557 6.8 % Business and corporate banking 16,108 2,150 15,4 Global banking ⁽¹⁾ 12,963 1,854 16,7 Other commercial ⁽²⁾ 6,833 338 5,2 Total commercial 44,695 4,899 12,3 Consumer loans: 8 16,475 1,006 6,5 Home equity mortgages 351 26 8,0 Credit cards 204 — — Other consumer 73 3 4,3 Total consumer 17,103 1,035 6,4 Total consumer 61,798 5,934 10,6 Allowance for credit losses ⁽³⁾ 534 87 19,5 Loans, net 61,264 5,847 10,6 %					Increase (Decre December 3	
Commercial loans: Real estate, including construction \$ 8,791 \$ 557 6.8 % Business and corporate banking 16,108 2,150 15.4 Global banking ⁽¹⁾ 12,963 1,854 16.7 Other commercial ⁽²⁾ 6,833 338 5.2 Total commercial 44,695 4,899 12.3 Consumer loans: Residential mortgages 16,475 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5		Jun	e 30, 2022		Amount	%
Real estate, including construction \$ 8,791 \$ 557 6.8 % Business and corporate banking 16,108 2,150 15.4 Global banking ⁽¹⁾ 12,963 1,854 16.7 Other commercial ⁽²⁾ 6,833 338 5.2 Total commercial 44,695 4,899 12.3 Consumer loans: 200 6.5 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 - - Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5			(0	lollaı	rs are in millions)	
Business and corporate banking 16,108 2,150 15.4 Global banking ⁽¹⁾ 12,963 1,854 16.7 Other commercial ⁽²⁾ 6,833 338 5.2 Total commercial 44,695 4,899 12.3 Consumer loans: Residential mortgages 16,475 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Commercial loans:					
Global banking ⁽¹⁾ 12,963 1,854 16.7 Other commercial ⁽²⁾ 6,833 338 5.2 Total commercial 44,695 4,899 12.3 Consumer loans: Residential mortgages 16,475 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Real estate, including construction	\$	8,791	\$	557	6.8 %
Other commercial (2) 6,833 338 5.2 Total commercial 44,695 4,899 12.3 Consumer loans: Residential mortgages 16,475 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses (3) 534 87 19.5	Business and corporate banking		16,108		2,150	15.4
Total commercial 44,695 4,899 12.3 Consumer loans: Residential mortgages 16,475 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 — Other consumer 73 3 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses(3) 534 87 19.5	Global banking ⁽¹⁾		12,963		1,854	16.7
T-303 4,693 12.3 Consumer loans: Residential mortgages 16,475 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Other commercial ⁽²⁾		6,833		338	5.2
Residential mortgages 16,475 1,006 6.5 Home equity mortgages 351 26 8.0 Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Total commercial		44,695		4,899	12.3
Home equity mortgages 351 26 8.0 Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Consumer loans:					
Credit cards 204 — — Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Residential mortgages		16,475		1,006	6.5
Other consumer 73 3 4.3 Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Home equity mortgages		351		26	8.0
Total consumer 17,103 1,035 6.4 Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Credit cards		204		_	_
Total loans 61,798 5,934 10.6 Allowance for credit losses ⁽³⁾ 534 87 19.5	Other consumer		73		3	4.3
Allowance for credit losses ⁽³⁾ 534 87 19.5	Total consumer		17,103		1,035	6.4
351 07 19.5	Total loans		61,798		5,934	10.6
Loans, net <u>\$ 61,264</u> <u>\$ 5,847</u> <u>10.6 %</u>	Allowance for credit losses ⁽³⁾		534		87	19.5
	Loans, net	\$	61,264	\$	5,847	10.6 %

⁽¹⁾ Represents large multinational firms including globally focused U.S. corporate and financial institutions, U.S. dollar lending to multinational banking clients managed by HSBC on a global basis and complex large business clients supported by Global Banking and Markets relationship managers.

Commercial loans increased compared with December 31, 2021 driven by new business activity as we continued to apply a disciplined lending approach to grow the business and, to a lesser extent, higher loans to affiliates. The increase in commercial non-affiliate loans was primarily in the software, real estate, banking, commercial services and retailing industries.

Consumer loans increased compared with December 31, 2021 due primarily to the transfer of certain residential mortgage and home equity mortgage loans from held for sale to held for investment during the second quarter of 2022 with a carrying value which collectively totaled \$538 million as discussed further below. Also contributing to the increase was growth in residential mortgage loans.

The following table presents loan-to-value ("LTV") ratios for our residential mortgage loan portfolio, excluding mortgage loans held for sale:

_		LTV Rat	ios ⁽¹⁾⁽²⁾	
	June 30	, 2022	December	31, 2021
	First Lien	Second Lien	First Lien	Second Lien
LTV < 80%	98.8 %	98.3 %	98.5 %	99.3 %
$80\% \le LTV < 90\%$	1.2	1.7	1.4	.6
90% ≤ LTV < 100%		_	.1	.1
$LTV \ge 100\%$		_	_	
Average LTV for portfolio	50.6	42.5	51.5	44.6

LTVs for first liens are calculated using the loan balance as of the reporting date. LTVs for second liens are calculated using the loan balance as of the reporting date plus the senior lien amount at origination. Current estimated property values are derived from the property's appraised value at the time of loan origination updated by the change in the Federal Housing Finance Agency's House Price Index ("HPI") at either a Core Based Statistical Area or state level. The estimated value of the homes could differ from actual fair values due to changes in condition of the underlying property, variations in housing price changes within metropolitan statistical areas and other factors. As a result, actual property values associated with loans that end in foreclosure may be significantly lower than the estimates used for purposes of this disclosure.

⁽²⁾ Includes loans to HSBC affiliates which totaled \$3,457 million and \$2,793 million at June 30, 2022 and December 31, 2021, respectively.

⁽³⁾ See "Credit Quality" in this MD&A for a discussion of trends in our allowance for credit losses on loans.

⁽²⁾ Current estimated property values are calculated using the most current HPIs available and applied on an individual loan basis, which results in an approximate three month delay in the production of reportable statistics. Therefore, the information in the table above reflects current estimated property values using HPIs at March 31, 2022 and September 30, 2021, respectively.

Loans Held for Sale The following table summarizes loans held for sale at June 30, 2022 and increases (decreases) since December 31, 2021:

				Increase (Decre December 31	
	June 3	30, 2022	1	Amount	%
		(0	lollars	are in millions)	
Commercial loans:					
Business and corporate banking	\$	7	\$	(116)	(94.3)%
Global banking		366		28	8.3
Total commercial		373		(88)	(19.1)
Consumer loans:					
Residential mortgages		12		(3,070)	(99.6)
Home equity mortgages		_		(275)	(100.0)
Credit cards		8		(187)	(95.9)
Other consumer		96		(108)	(52.9)
Total consumer		116		(3,640)	(96.9)
Total loans held for sale	\$	489	\$	(3,728)	(88.4)%

Commercial loans held for sale decreased compared with December 31, 2021. During the first quarter of 2022, we completed the sale of the branch disposal group that we previously transferred to held for sale in 2021 as part of our Restructuring Plan. The sale included certain retail business banking loans with a carrying value at the time of sale of \$37 million. See Note 3, "Branch Assets and Liabilities Held for Sale," for additional information.

Also included in commercial loans held for sale are certain other loans that we no longer intend to hold for investment and were transferred to held for sale which totaled \$201 million and \$359 million at June 30, 2022 and December 31, 2021, respectively. The decrease compared with December 31, 2021 was due to loan sales.

In addition, commercial loans held for sale includes certain loans that we have elected to designate under the fair value option which consists of loans that we originate in connection with our participation in a number of syndicated credit facilities with the intent of selling them to unaffiliated third parties as well as loans that we purchase from the secondary market and hold as hedges against our exposure to certain total return swaps. The fair value of these loans totaled \$172 million and \$23 million at June 30, 2022 and December 31, 2021, respectively. Balances will fluctuate from period to period depending on the volume and level of activity.

During the second quarter of 2022, we also sold certain global banking loans to third parties in order to reduce risk-weighted assets as part of our Restructuring Plan. These global banking loans had a carrying value at the time of sale of \$44 million and we recognized a loss on sale of \$3 million.

Consumer loans held for sale decreased compared with December 31, 2021. As discussed above, during the first quarter of 2022, we completed the sale of the branch disposal group that we previously transferred to held for sale in 2021 as part of our Restructuring Plan. The sale included certain consumer loans with a carrying value which collectively totaled \$2,102 million, including \$1,665 million of residential mortgages, \$185 million of home equity mortgages, \$168 million of credit cards and \$84 million of other consumer loans. See Note 3, "Branch Assets and Liabilities Held for Sale," for additional information.

In addition to the branch disposal group discussed above, during the first quarter of 2022, we sold a portfolio of consumer loans to a third party consisting primarily of certain non-performing mortgage loans and government-backed mortgage loans that we previously transferred to held for sale in 2021 as part of our Restructuring Plan. These mortgage loans had a carrying value which collectively totaled \$904 million, including \$865 million of residential mortgages and \$39 million of home equity mortgages, and we recognized a loss on sale of \$35 million, largely reflecting changes in the final terms of the sale.

Subsequent to completion of the sales discussed above, during the second quarter of 2022, the remaining mass market residential mortgage and home equity mortgage loans not sold, with a carrying value which collectively totaled \$538 million, were transferred back to held for investment as we now intend to hold these loans as a run-off portfolio for the foreseeable future.

At June 30, 2022, additional consumer loans that we previously transferred to held for sale in 2021 as part of our Restructuring Plan remained in loans held for sale, including \$8 million of credit cards and \$96 million of other consumer loans (of which \$22 million are student loans that we have previously elected to designate under the fair value option and are therefore carried at fair value).

In addition, residential mortgage loans held for sale includes agency-eligible conforming residential mortgage loans which are originated and held for sale to third parties, currently on a servicing retained basis. Balances will fluctuate from period to period depending on the volume and level of activity. Gains and losses from the sale of these residential mortgage loans are reflected as a component of other income (loss) in the accompanying consolidated statement of income.

Excluding the loans designated under fair value option discussed above, loans held for sale are recorded at the lower of amortized cost or fair value, with adjustments to fair value being recorded as a valuation allowance through other revenues. The valuation allowance on consumer loans held for sale was \$13 million and \$7 million at June 30, 2022 and December 31, 2021, respectively. The valuation allowance on commercial loans held for sale was \$1 million and \$5 million at June 30, 2022 and December 31, 2021, respectively.

Trading Assets and Liabilities The following table summarizes trading assets and liabilities at June 30, 2022 and increases (decreases) since December 31, 2021:

				Increase (Decrea December 31	
	Ju	ne 30, 2022		Amount	%
		(d	lollars		
Trading assets:					
Securities ⁽¹⁾	\$	13,033	\$	(5,698)	(30.4)%
Precious metals		3,372		(535)	(13.7)
Derivatives, net		2,303		898	63.9
	\$	18,708	\$	(5,335)	(22.2)%
Trading liabilities:					
Securities sold, not yet purchased	\$	907	\$	(196)	(17.8)%
Payables for precious metals		340		294	*
Derivatives, net		2,519		645	34.4
	\$	3,766	\$	743	24.6 %

^{*} Percentage change is greater than 100 percent.

Trading securities balances were lower compared with December 31, 2021 due primarily to a decrease in equity positions, partially offset by an increase in foreign sovereign positions. Trading security positions are held as economic hedges of interest rate, credit and equity derivative products issued to clients of domestic and emerging markets. Balances of securities sold, not yet purchased were lower compared with December 31, 2021 driven by a decline in short U.S. Treasury positions related to economic hedges of derivatives in the interest rate trading portfolio.

Precious metals trading assets decreased compared with December 31, 2021 due to a decrease in our own gold inventory position and lower spot prices, partially offset by an increase in our own silver inventory position. Payables for precious metals were higher compared with December 31, 2021 reflecting an increase in borrowing of gold inventory to support client activity levels. Precious metal positions may not represent our net underlying exposure as we may use derivatives contracts to reduce our risk associated with these positions, the fair value of which would appear in derivatives in the table above.

Derivative asset and liability balances both increased compared with December 31, 2021 mainly from market movements which resulted in higher valuations of foreign exchange, commodity and credit derivatives, partially offset by lower valuations of interest rate derivatives. Market movements on equity derivatives were mixed, resulting in high derivative asset valuations, but lower derivative liability valuations.

Securities Securities include securities available-for-sale and securities held-to-maturity, net. Securities balances were lower compared with December 31, 2021 driven by unfavorable market valuations due to increasing yields as well as net sales and paydowns as part of our continuing strategy to maximize returns while balancing the securities portfolio for risk management purposes. The decline in securities balances was primarily in U.S. Government agency mortgage-backed securities, U.S. Government sponsored mortgage-backed securities and U.S. Treasury securities.

All Other Assets All other assets include, among other items, properties and equipment, net, goodwill and other branch related assets held for sale. All other assets were higher compared with December 31, 2021 due primarily to increases in deferred tax assets, cash collateral posted and outstanding settlement balances related to security sales. These increases were partially offset by completion of the sale of other branch related assets held for sale during the first quarter of 2022.

⁽¹⁾ See Note 4, "Trading Assets and Liabilities," in the accompanying consolidated financial statements for a breakout of trading securities by category.

Deposits The following table summarizes deposit balances by major depositor categories at June 30, 2022 and increases (decreases) since December 31, 2021:

				December 31	
	Ju	ne 30, 2022		Amount	%
		(d	lollar	s are in millions)	
Individuals, partnerships and corporations	\$	108,733	\$	(10,551)	(8.8)%
Domestic and foreign banks		16,517		3,642	28.3
U.S. government and states and political subdivisions		134		(163)	(54.9)
Foreign governments and official institutions		1,879		53	2.9
Deposits held for sale ⁽¹⁾				(8,750)	(100.0)
Total deposits	\$	127,263	\$	(15,769)	(11.0)%

⁽¹⁾ Represented deposits associated with the exit of our mass market retail banking business as part of our Restructuring Plan.

Total deposits decreased compared with December 31, 2021 due primarily to lower demand and savings deposits driven by the attrition of balances our clients had previously built up during the COVID-19 pandemic and clients deploying cash to their businesses, as well as completion of the sale of the branch disposal group during the first quarter of 2022. These decreases were partially offset by increased deposits from affiliates and higher time deposits.

Short-Term Borrowings Short-term borrowings were lower compared with December 31, 2021 due to a decline in securities sold under repurchase agreements, partially offset by an increase in commercial paper outstanding.

Long-Term Debt Long-term debt decreased compared with December 31, 2021 as the impact of debt issuances was more than offset by debt retirements and fair value movements on fair value option debt. Debt issuances during the three and six months ended June 30, 2022 totaled \$2,198 million and \$2,845 million, respectively, of which \$14 million and \$102 million, respectively, was issued by HSBC Bank USA.

Incremental issuances from our shelf registration statement with the SEC totaled \$2,743 million of senior debt during the six months ended June 30, 2022, which included \$1,000 million of senior notes that were issued by HSBC USA in May as well as \$1,743 million of structured notes. Total long-term debt outstanding under this shelf was \$8,331 million and \$7,346 million at June 30, 2022 and December 31, 2021, respectively.

Incremental issuances from the HSBC Bank USA Global Bank Note Program totaled \$102 million during the six months ended June 30, 2022. Total debt outstanding under this program was \$1,955 million and \$1,966 million at June 30, 2022 and December 31, 2021, respectively.

Borrowings from the Federal Home Loan Bank ("FHLB") totaled \$1,000 million at both June 30, 2022 and December 31, 2021.

Interest, Taxes and Other Liabilities Interest, taxes and other liabilities include, among other items, other branch related liabilities held for sale. Interest, taxes and other liabilities were higher compared with December 31, 2021 due primarily to increases in derivative balances associated with hedging activities and outstanding settlement balances related to security purchases. These increases were partially offset by completion of the sale of other branch related liabilities held for sale during the first quarter of 2022.

Results of Operations

Net Interest Income Net interest income is the total interest income on earning assets less the total interest expense on deposits and borrowed funds. An analysis of consolidated average balances and interest rates is presented in this MD&A under the caption "Consolidated Average Balances and Interest Rates."

The significant components of net interest margin are summarized in the following table:

				2022 Co with acrease (
Three Months Ended June 30,		2022		olume		Rate	2021		
Internal in comme			(dol	lars are	in n	nillions)			
Interest income:									
Short-term investments	4	110	\$	(3)	\$	96	\$	17	
Trading securities		55		(24)		25		54	
Securities		169		(17)		26		160	
Commercial loans		309		24		10		275	
Consumer loans		128		(26)		(12)		166	
Other		12				8		4	
Total interest income		783		(46)		153		676	
Interest expense:									
Deposits		135		(12)		78		69	
Short-term borrowings		21		3		14		4	
Long-term debt		89		(15)		26		78	
Tax liabilities and other		6				4		2	
Total interest expense		251		(24)		122		153	
Net interest income	·· \$	532	\$	(22)	\$	31	\$	523	
Yield on total interest earning assets		1.94 %	,					1.48 %	
Cost of total interest bearing liabilities		.87						.46	
Interest rate spread		1.07	-					1.02	
Benefit from net non-interest paying funds ⁽¹⁾		.25						.12	
Net interest margin on average earning assets		1.32 %	- - -					1.14 %	

			In	2022 Co with crease (
Six Months Ended June 30,		2022		lume		Rate	2021
Interest income:			(dol	lars are	in n	nillions)	
Short-term investments	Φ.	105	Ф	(2)	Φ	107	Φ 22
	-	137	\$	(3)	\$	107	\$ 33
Trading securities		118		(32)		48	102
Securities		310		(43)		16	337
Commercial loans		547		22		(32)	557
Consumer loans		266		(40)		(29)	335
Other		17		(2)		6	13
Total interest income		1,395		(98)		116	1,377
Interest expense:							
Deposits		193		(24)		67	150
Short-term borrowings		26		3		14	9
Long-term debt		157		(29)		26	160
Tax liabilities and other		10		1		5	4
Total interest expense		386		(49)		112	323
Net interest income	··· \$ 2	1,009	\$	(49)	\$	4	\$1,054
Yield on total interest earning assets		1.68 %					1.51 %
Cost of total interest bearing liabilities		.65					.48
Interest rate spread		1.03	•				1.03
Benefit from net non-interest paying funds ⁽¹⁾		.18					.13
Net interest margin on average earning assets		1.21 %					1.16 %

⁽¹⁾ Represents the benefit associated with interest earning assets in excess of interest bearing liabilities. Increased percentages reflect growth in this excess or a higher cost of interest bearing liabilities, while decreased percentages reflect a reduction in this excess or a lower cost of interest bearing liabilities.

Net interest income increased during the three months ended June 30, 2022 due primarily to higher interest income from short-term investments, commercial loans and securities driven by higher yields and higher commercial loan average balances. The increase in the three-month period was partially offset by higher interest expense from interest bearing liabilities driven by higher rates paid as well as lower interest income from consumer loans driven by lower average balances and lower yields. In the year-to-date period, net interest income decreased due primarily to higher interest expense from deposits and short-term borrowings driven by higher rates paid as well as lower interest income from consumer loans and securities driven by lower average balances and lower consumer loan yields. The decrease in the year-to-date period was partially offset by higher interest income from short-term investments and trading securities driven by higher yields on these investments.

Short-term investments Interest income increased during the three and six months ended June 30, 2022 due to higher yields reflecting the impact of higher market rates.

Trading securities Interest income was relatively flat during the three months ended June 30, 2022 and increased in the year-to-date period as the impact of higher yields reflecting the impact of higher market rates and a shift in mix to higher yielding equity positions was largely offset in the three-month period and partially offset in the year-to-date period by lower average balances. Lower average balances were driven by declines in foreign sovereign and U.S. Treasury positions, which were partially offset in the year-to-date period by an increase in equity positions. Interest income associated with trading securities was partially offset within trading revenue by the performance of the associated derivatives as discussed further below.

Securities Interest income increased during the three months ended June 30, 2022 and decreased in the year-to-date period as the impact of higher yields reflecting the impact of higher market rates was partially offset in the three-month period and more than offset in the year-to-date period by lower average balances. Lower average balances were due primarily to declines in U.S. Treasury and foreign sovereign securities.

Commercial loans Interest income increased during the three months ended June 30, 2022 due to higher average balances driven by new business activity and higher yields reflecting the impact of higher market rates. In the year-to-date period, interest income decreased as the impact of higher average balances driven by new business activity was more than offset by

lower yields reflecting the impact of low market rates on loans originated or refinanced during the second half of 2021 and the first quarter of 2022.

Consumer loans Interest income decreased during the three and six months ended June 30, 2022 due primarily to the impact of loan sales which resulted in lower average balances and lower yields, including a lower mix of higher yielding credit card receivables.

Other Higher interest income during the three and six months ended June 30, 2022 was due to higher yields reflecting the impact of higher market rates on cash collateral posted and investments in Federal Reserve Bank stock and FHLB stock.

Deposits Interest expense increased during the three and six months ended June 30, 2022 due to higher rates paid reflecting the impact of higher market rates. The increase was partially offset by lower average balances reflecting lower demand and savings deposits driven by the attrition of balances our clients had previously built up during the COVID-19 pandemic and clients deploying cash to their businesses, as well as completion of the sale of the branch disposal group during the first quarter of 2022. Also contributing to lower average balances was a decline in time deposits which was partially offset by higher savings deposits from a few large private banking clients.

Short-term borrowings Higher interest expense during the three and six months ended June 30, 2022 was due primarily to higher rates paid reflecting the impact of higher market rates.

Long-term debt Interest expense increased during the three months ended June 30, 2022 and decreased in the year-to-date period as the impact of higher rates paid reflecting the impact of higher market rates was partially offset in the three-month period and more than offset in the year-to-date period by lower average borrowings.

Tax liabilities and other Interest expense increased during the three and six months ended June 30, 2022 due primarily to higher rates paid on securities sold, not yet repurchased reflecting the impact of higher market rates.

Provision for Credit Losses The following table summarizes the components of the provision for credit losses:

			Increase (I	Decrease)
Three Months Ended June 30,		2021	Amount	%
		(dollars are	in millions)	
Loans:				
Commercial loans:				
Real estate, including construction	\$ 40	\$ (3)	\$ 43	*
Business and corporate banking	22	(24)	46	*
Global banking	(2)	(79)	77	97.5
Other commercial	(1)	(1)	_	
Total commercial loans	59	(107)	166	*
Consumer loans:				
Residential mortgages	(1)	8	(9)	*
Home equity mortgages	1	(5)	6	*
Credit cards.	5	(76)	81	*
Other consumer	(1)	(21)	20	95.2
Total consumer loans	4	(94)	98	*
Total loans	63	(201)	264	*
Securities held-to-maturity	(1)		(1)	*
Other financial assets measured at amortized cost	_	(1)	1	100.0
Securities available-for-sale	2		2	*
Off-balance sheet credit exposures	5	(27)	32	*
Total provision for credit losses	\$ 69	\$ (229)	\$ 298	*

			Increase (Decrease)
Six Months Ended June 30,	2022 2021		Amount	%
		(dollars are	in millions)	
Loans:				
Commercial loans:				
Real estate, including construction	\$ 89	\$ (28)	\$ 117	*
Business and corporate banking	(18)	(77)	59	76.6
Global banking	27	(144)	171	*
Other commercial	(3)	(1)	(2)	*
Total commercial loans	95	(250)	345	*
Consumer loans:				
Residential mortgages	(5)	6	(11)	*
Home equity mortgages	1	(8)	9	*
Credit cards	4	(77)	81	*
Other consumer	(1)	(17)	16	94.1
Total consumer loans	(1)	(96)	95	99.0
Total loans	94	(346)	440	*
Securities held-to-maturity	(1)		(1)	*
Other financial assets measured at amortized cost	_	(1)	1	100.0
Securities available-for-sale	1		1	*
Off-balance sheet credit exposures	(14)	(109)	95	87.2
Total provision for credit losses	\$ 80	\$ (456)	\$ 536	*

^{*} Percentage change is greater than 100 percent.

Our provision for credit losses increased \$298 million and \$536 million during the three and six months ended June 30, 2022, respectively, due to a higher provision for credit losses on both our commercial and consumer loan portfolios as well as a higher provision for credit losses on off-balance sheet credit exposures.

The provision for credit losses on our commercial loan portfolio increased \$166 million and \$345 million during the three and six months ended June 30, 2022, respectively, reflecting loss provisions compared with releases in credit loss reserves in the prior year periods. The loss provisions in the current year periods were driven by the weakening of economic conditions which resulted in increases in credit reserves for risk factors associated with large loan and higher risk industry exposures, supply chain disruptions and energy price uncertainty, as well as weakness in the financial condition of certain clients and, in the current three-month period, a worsening of economic forecasts. Also contributing to the loss provisions in the current year periods were higher provisions associated with loan growth and maturity extensions. In the prior year periods, the releases in credit reserves were driven by improved economic conditions which resulted in improved economic forecasts and improvements in the credit condition of certain clients as well as declines in credit reserves for risk factors associated with higher risk client exposures and, in the year-to-date period, economic uncertainty. Client paydowns and loan sales also contributed to the releases in the prior year periods.

The provision for credit losses on our consumer loan portfolio increased \$98 million and \$95 million during the three and six months ended June 30, 2022, respectively, due primarily to releases in credit loss reserves in the prior year periods driven by our decision to exit our mass market retail banking business which resulted in a release of credit loss reserves and a reduction to the provision for credit losses of approximately \$100 million during the second quarter of 2021, including declines in credit reserves for risk factors primarily associated with economic uncertainty and forbearance accounts. Also contributing to the releases in credit reserves in the prior year periods were improved economic conditions which resulted in improved economic forecasts. In the current year three-month period, a modest loss provision was driven by the weakening of economic conditions which resulted in a worsening of economic forecasts. In the current year-to-date period, the provision for credit losses was relatively flat as an increase in credit reserves for risk factors associated with economic uncertainty was more than offset by the impact of net recoveries.

The provision for credit losses on off-balance sheet credit exposures increased \$32 million during the three months ended June 30, 2022 reflecting a modest loss provision in the current year period resulting from the weakening of economic conditions compared with a release in credit loss reserves in the prior year period resulting from improved economic conditions. In the

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year-to-date period, the provision for credit losses on off-balance sheet credit exposures increased \$95 million reflecting a lower release in credit loss reserves. The modest release in credit reserves in the current year period resulted from improvements in the credit condition of certain clients while the release in the prior year period resulted from improved economic conditions.

See "Credit Quality" in this MD&A for additional discussion on the allowance for credit losses associated with our various loan portfolios.

Other Revenues The following table summarizes the components of other revenues:

					Increase (I	Decrease)
Three Months Ended June 30,		2022	2021	A	Amount	%
			(dollars a	re in	millions)	
Credit card fees, net	\$	12	\$ 13	\$	(1)	(7.7)%
Trust and investment management fees		34	26		8	30.8
Other fees and commissions		160	171		(11)	(6.4)
Trading revenue		61	2		59	*
Other securities gains, net		9	18		(9)	(50.0)
Servicing and other fees from HSBC affiliates		87	70		17	24.3
Gain on instruments designated at fair value and related derivatives		19	7		12	*
Other income (loss):						
Valuation of loans held for sale		(9)	(5)		(4)	(80.0)
Residential mortgage banking revenue (expense)		(2)	1		(3)	*
Insurance		1	2		(1)	(50.0)
Miscellaneous income (loss)		(29)	(1)		(28)	*
Total other income (loss)		(39)	(3)		(36)	*
Total other revenues	\$	343	\$ 304	\$	39	12.8 %
				=		

					Increase (D	ecrease)
x Months Ended June 30,		2022	2021	Amount		%
			(dollars a			
Credit card fees, net	\$	27	\$ 23	\$	4	17.4 %
Trust and investment management fees		60	55		5	9.1
Other fees and commissions		338	336		2	.6
Trading revenue		133	43		90	*
Other securities gains, net		29	47		(18)	(38.3)
Servicing and other fees from HSBC affiliates		188	153		35	22.9
Gain on instruments designated at fair value and related derivatives		25	25			
Gain on sale of branch disposal group, net		111			111	*
Other income (loss):						
Valuation of loans held for sale		(6)	(5)		(1)	(20.0)
Residential mortgage banking revenue		4	17		(13)	(76.5)
Insurance		2	3		(1)	(33.3)
Miscellaneous income (loss)		(82)	(9)		(73)	*
Total other income (loss)		(82)	6		(88)	*
Total other revenues	\$	829	\$ 688	\$	141	20.5 %

Percentage change is greater than 100 percent.

Credit card fees, net Credit card fees, net was relatively flat during the three months ended June 30, 2022 and increased in the year-to-date period as lower income from retail credit cards reflecting the impact of loan sales was largely offset in the three-month period and more than offset in the year-to-date period by higher income from commercial credit cards. The increase in income from commercial credit cards reflects higher interchange fees driven by higher client spending, partially offset by higher cost estimates associated with our credit card rewards program.

Increase (Decrease)

90

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Trust and investment management fees Trust and investment management fees increased during the three and six months ended June 30, 2022 due to higher fees from liquidity funds driven by lower fee waivers reflecting the impact of higher market interest rates and higher average liquidity assets under management. The increase was partially offset by lower fees from fixed income funds driven by unfavorable market performance.

Other fees and commissions Other fees and commissions decreased during the three months ended June 30, 2022 due primarily to lower fees from loan syndication, loan commitments and wire transfers reflecting lower business activity compared with the prior year period. The decrease was partially offset by higher loan servicing fees reflecting the temporary servicing agreement we entered into associated with the sale of a portfolio of mass market retail credit cards to a third party during the fourth quarter of 2021. In the year-to-date period, other fees and commissions were relatively flat as higher loan servicing fees were largely offset by lower fees from wire transfers. See Note 13, "Fee Income from Contracts with Customers," in the accompanying consolidated financial statements for additional information including a summary of the components of other fees and commissions.

Trading revenue Trading revenue is generated by participation in the foreign exchange, precious metals, rates, credit and equities markets. The following table presents trading revenue by business activity. Not included in the table below is the impact of net interest income associated with trading securities which is an integral part of trading activities' overall performance. Certain derivatives, such as total return swaps, are economically hedged by holding the underlying interest bearing referenced assets. Net interest income related to trading activities is recorded in net interest income in the consolidated statement of income. Trading revenue related to the mortgage banking business is included as a component of other income (loss).

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TI M (I F I I I Z)	,	2022		2021	_	• •	%
Three Months Ended June 30,	•					Amount n millions)	% 0
Business Activities:			•	(uonars ai	i C III	i illilliolis)	
Foreign Exchange	\$	42	\$	36	\$	6	16.7 %
Metals		20	•	9	•	11	*
Debt Markets		_		2		(2)	(100.0)
Securities Financing		(18)		(42)		24	57.1
Markets Treasury		15		4		11	*
Legacy structured credit products				1		(1)	(100.0)
Other trading ⁽¹⁾		2		(8)		10	*
Total trading revenue		61	\$	2	\$	59	*
						Increase (D	ecrease)
Six Months Ended June 30,	2	2022		2021		Amount	%
			((dollars a	re in	millions)	
Business Activities:							
Foreign Exchange	\$	103	\$	96	\$	7	7.3 %
Metals		44		28		16	57.1
Debt Markets		(3)		1		(4)	*
Securities Financing		(53)		(77)		24	31.2
Markets Treasury		41		6		35	*
Legacy structured credit products		1		3		(2)	(66.7)

Percentage change is greater than 100 percent.

Total trading revenue.

Trading revenue increased during the three and six months ended June 30, 2022 due primarily to higher revenue in Securities Financing, Markets Treasury and Metals. Higher revenue in Securities Financing was due to lower losses related to swaps in prime brokerage. Revenue was higher in Markets Treasury due to the improved performance of economic hedge positions used

Includes trading revenue related to Global Banking and Equities. During the three and six months ended June 30, 2021, other trading revenue also included \$6 million and \$10 million, respectively, of trading losses associated with the exit of certain derivative contracts as part of our Restructuring

to manage interest rate risk and revenue was higher in Metals as market volatility resulted in increased trading opportunities. Also contributing to the increase in trading revenue was the non-recurrence of Other trading losses recorded in the prior year periods associated with the exit of certain derivative contracts as part of our Restructuring Plan.

Other securities gains, net We maintain securities portfolios as part of our balance sheet diversification and risk management strategies. During the three and six months ended June 30, 2022, we sold \$686 million and \$1,002 million, respectively, of primarily U.S. Treasury, U.S. Government agency mortgage-backed and U.S. Government sponsored mortgage-backed securities compared with \$2,263 million and \$6,170 million during the prior year periods as part of a continuing strategy to maximize returns while balancing the securities portfolio for risk management purposes. Other securities gains, net decreased during the three and six months ended June 30, 2022 reflecting the impact of lower sales activity. The gross realized gains and losses from sales of securities, which are included as a component of other securities gains, net above, are summarized in Note 5, "Securities," in the accompanying consolidated financial statements.

Servicing and other fees from HSBC affiliates Servicing and other fees from HSBC affiliates increased during the three and six months ended June 30, 2022 due primarily to higher performance fees associated with trading activity booked on the balance sheet of HSBC Bank plc and, in the year-to-date period, higher cost reimbursements associated with shared services performed on behalf of other HSBC affiliates.

Gain on instruments designated at fair value and related derivatives. We have elected to apply fair value option accounting to certain commercial loans held for sale, certain student loans, certain of our own fixed-rate debt issuances and all of our hybrid instruments issued, including structured notes and deposits. We also use derivatives to economically hedge the interest rate and other risks associated with certain financial assets and liabilities for which fair value option accounting has been elected. Gain on instruments designated at fair value and related derivatives increased during the three months ended June 30, 2022 and was flat in the year-to-date period as favorable movements related to the economic hedging of interest rate and other risks within our hybrid instruments were partially offset in the three-month period and offset in the year-to-date period by valuation losses in the current year periods on certain commercial loans as well as unfavorable movements related to the economic hedging of interest rate risk within our own debt. See Note 11, "Fair Value Option," in the accompanying consolidated financial statements for additional information including a breakout of these amounts by individual component.

Gain on sale of branch disposal group, net During the first quarter of 2022, we completed the sale of the branch disposal group associated with the exit of our mass market retail banking business to third parties and recognized a gain on sale of approximately \$111 million, net of transaction costs. See Note 3, "Branch Assets and Liabilities Held for Sale," in the accompanying consolidated financial statements for additional information.

Other income (loss) Other income (loss) was lower during the three and six months ended June 30, 2022 due primarily to a loss of \$31 million recorded during the second quarter of 2022 on the swap agreements entered into in conjunction with the sales of Visa Class B Shares primarily related to an increase in the expected timing of the final resolution of the related litigation and, in the year-to-date period, a loss of \$35 million recorded during the first quarter of 2022 on the sale of a portfolio of consumer mortgage loans. Also contributing to the decrease in both periods were higher losses associated with bank owned life insurance, lower gains on sales of commercial loans and lower residential mortgage banking revenue driven by lower gains on sales of residential mortgage loans. These decreases were partially offset by higher income associated with credit default swap protection which largely reflects the hedging of a few client relationships.

Operating Expenses The following table summarizes the components of operating expenses:

				Increase (De	ecrease)
Three Months Ended June 30,	2022	2021	A	mount	%
		(dollars a	re in n	nillions)	
Salaries and employee benefits	\$ 138	\$ 182	\$	(44)	(24.2)%
Support services from HSBC affiliates:					
Fees paid to HTSU	244	268		(24)	(9.0)
Fees paid to HSBC Markets (USA) Inc. ("HMUS")	46	18		28	*
Fees paid to other HSBC affiliates	129	106		23	21.7
Total support services from HSBC affiliates	419	392		27	6.9
Occupancy expense, net	13	118		(105)	(89.0)
Other expenses:					
Equipment and software	26	33		(7)	(21.2)
Marketing	7	9		(2)	(22.2)
Outside services	19	18		1	5.6
Professional fees	53	23		30	*
Federal Deposit Insurance Corporation ("FDIC") assessment fees	12	15		(3)	(20.0)
Miscellaneous	6	12		(6)	(50.0)
Total other expenses	123	110		13	11.8
Total operating expenses	\$ 693	\$ 802	\$	(109)	(13.6)%
Personnel - average number	2,517	3,799			
Efficiency ratio	79.2 %	97.0 %			
				Increase (De	ecrease)
Six Months Ended June 30,	2022	2021		mount	%
		(dollars a			
Salaries and employee benefits	\$ 292	\$ 358	\$	(66)	(18.4)%
Support services from HSBC affiliates:					

			Increase (D	cci case)
2022	2021	A	mount	%
	(dollars a	re in r	nillions)	
\$ 292	\$ 358	\$	(66)	(18.4)%
504	512		(8)	(1.6)
83	46		37	80.4
250	201		49	24.4
837	759		78	10.3
30	148		(118)	(79.7)
50	56		(6)	(10.7)
14	18		(4)	(22.2)
35	35			
74	42		32	76.2
27	33		(6)	(18.2)
20	35		(15)	(42.9)
220	219		1	.5
\$1,379	\$ 1,484	\$	(105)	(7.1)%
2,763	3,867			-
75.0 %	85.2 %)		
	,	,	,	,

^{*} Percentage change is greater than 100 percent.

Salaries and employee benefits Salaries and employee benefits expense decreased during the three and six months ended June 30, 2022 due primarily to lower salaries and incentive compensation expense driven by staff reductions related to our

Restructuring Plan, including completion of the sale of the branch disposal group during the first quarter of 2022. Also contributing to the decrease, to a lesser extent, was lower salaries expense reflecting the impact of certain wholesale operations staff which were transferred from HSBC Bank USA to HTSU support services during the first quarter of 2022.

Support services from HSBC affiliates Servicing and other fees from HSBC affiliates increased during the three and six months ended June 30, 2022 due primarily to higher allocated restructuring related costs from HTSU and other HSBC affiliates. During the three and six months ended June 30, 2022, we recorded \$55 million and \$95 million, respectively, of allocated restructuring related costs from HTSU and other HSBC affiliates, primarily support service project costs and severance costs, compared with \$29 million and \$48 million of allocated costs during the prior year periods. Also contributing to the increase were higher cost allocations from HMUS associated with Global Banking activities reflecting the impacts of higher staff costs and an updated service level agreement as well as higher costs associated with our investments in systems infrastructure and new technologies. In addition, the increase reflects higher expense due to the transfer of certain wholesale operations staff from HSBC Bank USA to HTSU support services as discussed above. These increases were partially offset by lower cost allocations from our support service functions driven by the execution of our Restructuring Plan. A summary of the services received from various HSBC affiliates is included in Note 14, "Related Party Transactions," in the accompanying consolidated financial statements.

Occupancy expense, net Occupancy expense, net was lower during the three and six months ended June 30, 2022 due primarily to the non-recurrence of \$82 million of lease impairment and other related costs recorded during the second quarter of 2021 related to the exit of certain branches and office space as part of our Restructuring Plan. Also contributing to the decrease were lower operating lease costs and depreciation expense driven by the execution of our Restructuring Plan, including completion of the sale of the branch disposal group during the first quarter of 2022.

Other expenses Other expenses increased during the three months ended June 30, 2022 due primarily to higher professional fees driven by higher attorney's fees, partially offset by higher levels of expense capitalization related to internally developed software as well as declines in equipment costs, deposit insurance assessment fees and marketing expense. In the year-to-date period, other expenses were flat as higher professional fees driven by higher attorney's fees were offset by higher levels of expense capitalization related to internally developed software as well as declines in equipment costs, deposit insurance assessment fees and marketing expense.

Efficiency ratio Our efficiency ratio improved during the three and six months ended June 30, 2022 due to lower operating expenses driven by lease impairment and other related costs recorded during the second quarter of 2021 as discussed above and higher other revenues driven by higher trading revenue and, in the year-to-date period, the gain on sale of the branch disposal group recorded during the first quarter of 2022 as discussed above. While net interest income was higher and contributed to the improvement in the three-month period, it was lower in the year-to-date period.

Income tax expense The following table summarizes our effective tax rate based on the provision for income taxes attributable to pretax income:

Three Months Ended June 30,	2022		2021
	(dollars ar	e in mi	llions)
Income before income tax \$	113	\$	254
Income tax expense	23		61
Effective tax rate	20.4 %	•	24.0 %
Six Months Ended June 30,	2022		2021
	(dollars ar	e in mi	llions)
Income before income tax \$	379	\$	714
Income tax expense	88		182
Effective tax rate	23.2 %		25.5 %

Income tax expense and the effective tax rate decreased during the three and six months ended June 30, 2022. The decrease in income tax expense was driven by lower pre-tax income, while the decrease in the effective tax rate resulted from higher expected investment tax credits in the current year periods.

Management evaluated the need for a valuation allowance against deferred tax assets at June 30, 2022 and it was determined that a valuation allowance was not required at this time.

Segment Results - Group Reporting Basis

We have distinct businesses, which are aligned with HSBC's global business strategy: Wealth and Personal Banking ("WPB"), Commercial Banking ("CMB"), and Global Banking and Markets ("GBM"). These businesses and a Corporate Center ("CC") serve as our reportable segments with the exception of GBM. Our GBM business is comprised of three distinct operating segments: Global Banking ("GB"), Markets and Securities Services ("MSS"), and Global Banking and Markets Other ("GBM Other"), which are separately reported as discussed further below, effective as of the fourth quarter of 2021 for all periods presented.

See Note 15, "Business Segments," in the accompanying consolidated financial statements for a table that summarizes the impact of this change on reported segment profit (loss) before tax, total assets and total deposits as of and for the three and six months ended June 30, 2021. There have been no changes in the basis of our segmentation as compared with the presentation in our 2021 Form 10-K. See Item 1, "Business," in our 2021 Form 10-K for a description of our segments, including a discussion of the main business activities of the segments and a summary of their products and services.

Net interest income of each segment represents the difference between actual interest earned on assets and interest incurred on liabilities of the segment, adjusted for a funding charge or credit that includes both interest rate and liquidity components. Segments are charged a cost to fund assets (e.g. customer loans) and receive a funding credit for funds provided (e.g. customer deposits) based on equivalent market rates that incorporate both repricing (interest rate risk) and tenor (liquidity) characteristics. The objective of these charges/credits is to transfer interest rate risk to one centralized unit in Markets Treasury. Markets Treasury income statement and balance sheet results are allocated to each of the global businesses based upon tangible equity levels and levels of any surplus liabilities.

Certain other revenue and operating expense amounts are also apportioned among the business segments based upon the benefits derived from this activity or the relationship of this activity to other segment activity. These inter-segment transactions have not been eliminated, and we generally account for them as if they were with third parties.

We report financial information to our parent, HSBC, in accordance with HSBC Group accounting and reporting policies, which apply IFRSs as issued by the IASB. As a result, our segment results are prepared and presented using financial information prepared on the Group Reporting Basis as operating results are monitored and reviewed, trends are evaluated and decisions about allocating resources, such as employees, are primarily made on this basis. We continue, however, to monitor capital adequacy and report to regulatory agencies on a U.S. GAAP basis.

There have been no changes in the measurement of segment profit as compared with the presentation in our 2021 Form 10-K.

The significant differences between U.S. GAAP and the Group Reporting Basis as they impact our results are summarized in Note 25, "Business Segments," in our 2021 Form 10-K. There have been no significant changes since December 31, 2021 in the differences between U.S. GAAP and the Group Reporting Basis impacting our results.

Wealth and Personal Banking The following table summarizes the Group Reporting Basis results for our WPB segment:

			Increase (Decrease)
Three Months Ended June 30,	2022	2022 2021		%
Net interest income	185	\$ 205	\$ (20)	(9.8)%
Other operating income	32	71	(39)	(54.9)
Total operating income ⁽¹⁾	217	276	(59)	(21.4)
Expected credit losses	(6)	1	(7)	*
Net operating income	223	275	(52)	(18.9)
Operating expenses	197	355	(158)	(44.5)
Profit (loss) before tax	26	\$ (80)	\$ 106	*

			Increase (Decrease)
Six Months Ended June 30,	2022	2021	Amount	%
Net interest income	354	\$ 414	\$ (60)	(14.5)%
Other operating income	195	158	37	23.4
Total operating income ⁽¹⁾	549	572	(23)	(4.0)
Expected credit losses	(2)	(1)	(1)	(100.0)
Net operating income	551	573	(22)	(3.8)
Operating expenses	439	642	(203)	(31.6)
Profit (loss) before tax	112	\$ (69)	\$ 181	*

Percentage change is greater than 100 percent.

⁽¹⁾ The following table summarizes the impact of key activities on the total operating income of our WPB segment:

			Increase (Decrease)			
Three Months Ended June 30,	2022 2021		Amount	%			
	(dollars are in millions)						
Retail banking current accounts, savings and deposits \$	100	\$ 106	\$ (6)	(5.7)%			
Retail banking mortgages, credit cards and other personal lending	51	77	(26)	(33.8)			
Wealth and asset management products	23	19	4	21.1			
Private banking	57	43	14	32.6			
Retail business banking and other ⁽²⁾	(14)	31	(45)	*			
Total operating income \$	217	\$ 276	\$ (59)	(21.4)%			

				Ir	icrease (De	ecrease)
Six Months Ended June 30,	2022	2021		Amount		%
	(dollars are in millions)					
Retail banking current accounts, savings and deposits	184	\$	216	\$	(32)	(14.8)%
Retail banking mortgages, credit cards and other personal lending	115		165		(50)	(30.3)
Wealth and asset management products	41		39		2	5.1
Private banking	104		88		16	18.2
Retail business banking and other ⁽²⁾	105		64		41	64.1
Total operating income \$	549	\$	572	\$	(23)	(4.0)%

Includes cost reimbursements associated with activities performed on behalf of other HSBC affiliates and allocated Markets Treasury revenue. During the six months ended June 30, 2022, retail business banking and other also reflects a gain of \$148 million on the sale of the branch disposal group associated with the exit of our mass market retail banking business and a loss on the sale of a portfolio of consumer mortgage loans as discussed below.

Our WPB segment reported a profit before tax during the three and six months ended June 30, 2022 compared with a loss before tax in the prior year periods. The improvement in the three-month period was due primarily to lower operating expenses, partially offset by lower other operating income and lower net interest income. In the year-to-date period, the improvement was due primarily to lower operating expenses and higher other operating income driven by completion of the sale of the branch disposal group associated with the exit of our mass market retail banking business which resulted in a gain of \$148 million during the first quarter of 2022. The improvement in the year-to-date period was partially offset by lower net interest income.

Net interest income decreased during the three and six months ended June 30, 2022 due primarily to the impact of loan sales and completion of the sale of the branch disposal group during the first quarter of 2022 which resulted in lower average loan and deposit balances as well as lower spreads. Also contributing to the decrease was the unfavorable impact of lower deposits driven by the attrition of balances our customers had previously built up during the COVID-19 pandemic which was partially offset by higher savings deposits from a few large private banking clients.

Excluding the gain on sale of the branch disposal group as discussed above, other operating income decreased during the three and six months ended June 30, 2022 due primarily to a loss of \$31 million recorded during the second quarter of 2022 on the swap agreements entered into in conjunction with the sales of Visa Class B Shares primarily related to an increase in the expected timing of the final resolution of the related litigation and, in the year-to-date period, a loss of \$55 million recorded during the first quarter of 2022 on the sale of a portfolio of consumer mortgage loans. Also contributing to the decrease in both periods was lower residential mortgage banking revenue driven by unfavorable fair value adjustments on residential mortgage loans held for trading as well as lower allocated Markets Treasury revenue. These decreases were partially offset by higher investment management fees driven by lower liquidity fee waivers reflecting the impact of higher market interest rates and higher average assets under management.

Expected credit losses improved during the three months ended June 30, 2022 driven by improvements in the credit quality of the portfolio, partially offset by the weakening of economic conditions which resulted in a worsening of economic forecasts. In the year-to-date period, expected credit losses were relatively flat as the impact of improvements in the credit quality of the portfolio was largely offset by an increase in credit reserves for risk factors associated with economic uncertainty.

Operating expenses decreased during the three and six months ended June 30, 2022 driven by the execution of our Restructuring Plan, including completion of the sale of the branch disposal group during the first quarter of 2022, which resulted in declines in staff costs, operating lease costs, marketing expense and cost allocations from our technology and support service functions. Also contributing to the decrease was the non-recurrence of \$57 million of lease impairment and other related costs recorded during the second quarter of 2021 primarily related to the exit of certain branches as part of our Restructuring Plan as well as lower deposit insurance assessment fees.

Client Assets The following table provides information regarding private banking client assets during the six months ended June 30, 2022 and 2021:

Six Months Ended June 30,		2022		2021
		(in millions)		
Client assets at beginning of period	. \$	66,181	\$	44,104
Net new money (outflows)		(2,459)		9,008
Value change		(8,349)		2,078
Client assets at end of period	. \$	55,373	\$	55,190

Commercial Banking The following table summarizes the Group Reporting Basis results for our CMB segment:

Three Months Ended June 30,			Increase (I	Decrease)
		2021	Amount	%
Net interest income	220	\$ 190	\$ 30	15.8 %
Other operating income	73	72	1	1.4
Total operating income ⁽¹⁾	293	262	31	11.8
Expected credit losses	54	(12)	66	*
Net operating income	239	274	(35)	(12.8)
Operating expenses	143	153	(10)	(6.5)
Profit before tax	96	\$ 121	\$ (25)	(20.7)%

			Increase (I	Decrease)
Six Months Ended June 30,	2022	2021	Amount	%
		(dollars are i	n millions)	
Net interest income	\$ 405	\$ 380	\$ 25	6.6 %
Other operating income	156	138	18	13.0
Total operating income ⁽¹⁾	561	518	43	8.3
Expected credit losses	27	(50)	77	*
Net operating income	534	568	(34)	(6.0)
Operating expenses	290	303	(13)	(4.3)
Profit before tax	\$ 244	\$ 265	\$ (21)	(7.9)%

Percentage change is greater than 100 percent.

⁽¹⁾ The following table summarizes the impact of key activities on the total operating income of our CMB segment:

		Increase	rease (Decrease)			
Three Months Ended June 30,	2022	2022 2021		%		
	(dollars are in millions)					
Lending and Transaction Management	111	\$ 111	\$ —	— %		
Global Liquidity and Cash Management ("GLCM")	125	100	25	25.0		
Global Trade and Receivables Finance ("GTRF")	20	16	4	25.0		
Investment banking products and other ⁽²⁾	37	35	2	5.7		
Total operating income	293	\$ 262	\$ 31	11.8 %		

				Increase (D	ecrease)	
Six Months Ended June 30,	2022	2021		Amount	%	
	(dollars are in millions)					
Lending and Transaction Management \$	219	\$ 21	7 \$	2	.9 %	
GLCM	222	19)	23	11.6	
GTRF	39	30)	9	30.0	
Investment banking products and other ⁽²⁾	81	7.	2	9	12.5	
Total operating income	561	\$ 51	3 \$	43	8.3 %	
-						

⁽²⁾ Includes allocated Markets Treasury revenue.

Our CMB segment reported a lower profit before tax during the three and six months ended June 30, 2022 due to higher expected credit losses, partially offset by higher net interest income, lower operating expenses and, in the year-to-date period, higher other operating income.

Net interest income increased during the three and six months ended June 30, 2022 due to higher deposit spreads reflecting the impacts of higher market rates and higher average loan balances, partially offset in the three-month period by lower average deposit balances.

Other operating income was relatively flat during the three months ended June 30, 2022. In the year-to-date period, other operating income increased due primarily to higher fees from loan syndication, account services and letters of credit.

Increase (Decrease)

Expected credit losses increased during the three and six months ended June 30, 2022 reflecting loss provisions compared with releases in credit loss reserves in the prior year periods. The loss provisions in the current year periods were driven by the weakening of economic conditions which resulted in weakness in the financial condition of certain clients and increases in credit reserves for risk factors associated with service industry loan exposures. Also contributing to the loss provisions in the current year periods were higher provisions associated with loan growth. In the prior year periods, the releases in credit reserves were driven by improved economic conditions which resulted in improved economic forecasts as well as client paydowns.

Operating expenses decreased during the three and six months ended June 30, 2022 due primarily to lower incentive compensation expense and lower branch network costs, partially offset by higher cost allocations from our technology and support service functions.

Global Banking and Markets Our GBM business is comprised of three reportable operating segments:

Global Banking The following table summarizes the Group Reporting Basis results for our GB segment:

			increase (i	Decrease)		
Three Months Ended June 30,		2021	Amount	%		
	(dollars are in millions)					
Net interest income	106	\$ 79	\$ 27	34.2 %		
Other operating income	130	113	17	15.0		
Total operating income ⁽¹⁾	236	192	44	22.9		
Expected credit losses	(3)	(72)	69	95.8		
Net operating income	239	264	(25)	(9.5)		
Operating expenses	115	96	19	19.8		
Profit before tax	5 124	\$ 168	\$ (44)	(26.2)%		

			Increase (I	Decrease)
Six Months Ended June 30,	2022	2021	Amount	%
Net interest income	184	\$ 162	\$ 22	13.6 %
Other operating income	254	218	36	16.5
Total operating income ⁽¹⁾	438	380	58	15.3
Expected credit losses	(5)	(122)	117	95.9
Net operating income	443	502	(59)	(11.8)
Operating expenses	232	190	42	22.1
Profit before tax	3 211	\$ 312	\$ (101)	(32.4)%

^{*} Percentage change is greater than 100 percent.

⁽¹⁾ The following table summarizes the impact of key activities on the total operating income of our GB segment. For purposes of the discussion below the table, total operating income is referred to as revenue.

				Ir	icrease (D	ecrease)
Three Months Ended June 30,	2022	2021	Amount		ount	%
	(dollars are in millions)					
GLCM	119	\$ 9	1	\$	28	30.8 %
Capital Markets	29	6	4		(35)	(54.7)
Credit and Lending	15	2	6		(11)	(42.3)
GTRF	13	1	3		_	_
GB Other ⁽²⁾	60	(2)		62	*
Total operating income	236	\$ 19	2	\$	44	22.9 %
=			_	_		

2022		021	An	ount	%				
	(doll	lare ara i							
		iais ale i	(dollars are in millions)						
209	\$	178	\$	31	17.4 %				
94		131		(37)	(28.2)				
36		44		(8)	(18.2)				
25		25		_	_				
74		2		72	*				
438	\$	380	\$	58	15.3 %				
	94 36	94 36	94 131 36 44	94 131 36 44	94 131 (37) 36 44 (8) 25 25 — 74 2 72				

Includes net interest income on capital held in the business and not assigned to products as well as revenue associated with credit default swap protection, certain credit-linked structured notes and loan sales.

Our GB segment reported a lower profit before tax during the three and six months ended June 30, 2022 due to higher expected credit losses and higher operating expenses, partially offset by higher other operating income and higher net interest income.

Revenue increased during the three and six months ended June 30, 2022 due to higher revenue in GB Other and GLCM, partially offset by lower revenue in Capital Markets and Credit and Lending. Higher revenue in GB Other was driven by valuation gains recorded in the current year periods on certain credit-linked structured notes and higher income associated with credit default swap protection which largely reflects the hedging of a few client relationships. Higher GLCM revenue was due primarily to higher net interest income reflecting the impact of higher market rates as well as higher account service fees. Lower Capital Markets revenue was due primarily to lower fees from loan syndication, valuations losses in the current year periods on certain commercial loans and the non-recurrence of revenue associated with the collection of a nonaccrual loan in the prior year periods. Lower revenue in Credit and Lending was driven by lower fees from loan commitments and the non-recurrence of revenue associated with the collection of a nonaccrual loan in the prior year periods, partially offset by higher net interest income from improved spreads.

Expected credit losses increased during the three and six months ended June 30, 2022 reflecting lower releases in credit loss reserves. The modest releases in credit reserves in the current year periods were driven by improvements in the credit condition of certain clients and declines in credit reserves for risk factors associated with oil and gas industry loan exposures. In the prior year periods, the releases in credit reserves were driven by improved economic conditions which resulted in improved economic forecasts and improvements in the credit condition of certain clients. Client paydowns and loan sales also contributed to the releases in the prior year periods.

Operating expenses increased during the three and six months ended June 30, 2022 due primarily to higher cost allocations from our technology and support service functions, including higher cost allocations from HMUS reflecting the impacts of higher staff costs and an updated service level agreement.

Markets and Securities Services The following table summarizes the Group Reporting Basis results for our MSS segment:

			Increase (Decrease)			
Three Months Ended June 30,	2022	2021	Amount	%			
		(in millions)					
Net interest income	s —	\$ 12	\$ (12)	(100.0)%			
Other operating income	100	41	59	*			
Total operating income ⁽¹⁾	100	53	47	88.7			
Expected credit losses	_		_	_			
Net operating income	100	53	47	88.7			
Operating expenses	80	65	15	23.1			
Profit (loss) before tax	\$ 20	\$ (12)	\$ 32	*			

		Increase (I					
Six Months Ended June 30,	2022	2021 Amount		ount	%		
		(in millions)					
Net interest income	\$ 16	\$	25	\$	(9)	(36.0)%	
Other operating income	242		157		85	54.1	
Total operating income ⁽¹⁾	258		182		76	41.8	
Expected credit losses			_		_		
Net operating income	258		182		76	41.8	
Operating expenses	149		146		3	2.1	
Profit before tax	\$ 109	\$	36	\$	73	*	
	•	= =					

^{*} Percentage change is greater than 100 percent.

⁽¹⁾ The following table summarizes the impact of key activities on the total operating income of our MSS segment. For purposes of the discussion below the table, total operating income is referred to as revenue.

				I	ncrease (D	ecrease)		
Three Months Ended June 30,		20	2021		nount	%		
		(dollars are in millions)						
Foreign Exchange and Metals	\$ 65	\$	48	\$	17	35.4 %		
Debt Markets			(1)		1	100.0		
Securities Financing	12		6		6	100.0		
Equities	16		_		16	*		
Securities Services	6		7		(1)	(14.3)		
MSS Other ⁽²⁾	1		(6)		7	*		
Credit and funding valuation adjustments			(1)		1	100.0		
Total MSS	\$ 100	\$	53	\$	47	88.7 %		

			Increase	e (Decrease)
Six Months Ended June 30,	2022	2021	Amount	%
		(dollars are i	n millions)	
Foreign Exchange and Metals	\$ 156	\$ 134	\$ 22	16.4 %
Debt Markets	2	(3)	5	*
Securities Financing	32	15	17	*
Equities	43	16	27	*
Securities Services	14	13	1	7.7
MSS Other ⁽²⁾	_	(10)	10	100.0
Credit and funding valuation adjustments	11	17	(6	5) (35.3)
Total MSS	\$ 258	\$ 182	\$ 76	41.8 %

⁽²⁾ Includes revenue associated with the exit of certain derivative contracts as part of our Restructuring Plan, including trading losses of \$6 million and \$10 million recorded during the three and six months ended June 30, 2021, respectively.

Our MSS segment reported a profit before tax during the three months ended June 30, 2022 compared with a loss before tax during the prior year period due to higher other operating income, partially offset by higher other operating expenses and lower

net interest income. In the year-to-date period, our MSS segment reported a higher profit before tax due primarily to higher other operating income, partially offset by lower net interest income.

Revenue increased during the three and six months ended June 30, 2022 due primarily to higher revenue in Foreign Exchange and Metals, Equities, Securities Financing and MSS Other. Higher revenue in Foreign Exchange and Metals was due to market volatility which resulted in increased trading opportunities. Higher Equities revenue was driven by higher performance fees associated with trading activity booked on the balance sheet of HSBC Bank plc. Higher revenue in Securities Financing was due to increased business activity and improved yields while higher revenue in MSS Other was driven by the non-recurrence of trading losses recorded in the prior year periods associated with the exit of certain derivative contracts as part of our Restructuring Plan. These increases were partially offset in the year-to-date period by unfavorable Credit and funding valuation adjustments attributable primarily to lower gains from credit valuation adjustments on derivative assets.

Operating expenses increased during the three and six months ended June 30, 2022 due primarily to higher cost allocations from our technology and support service functions, partially offset by lower staff costs.

Global Banking and Markets Other The following table summarizes the Group Reporting Basis results for our GBM Other segment. For purposes of the discussion below the table, total operating income is referred to as revenue.

			Increase (l	Decrease)			
Three Months Ended June 30,	2022	2021	Amount	%			
		(in millions)					
Net interest income (expense)	1	\$ (5)	\$ 6	*			
Other operating income	26	29	(3)	(10.3)			
Total operating income	27	24	3	12.5			
Expected credit losses	1		1	*			
Net operating income	26	24	2	8.3			
Operating expenses	21	25	(4)	(16.0)			
Profit (loss) before tax	5	\$ (1)	\$ 6	*			

			Increase (Decrease)			
Six Months Ended June 30,	2022	2022 2021		%			
		(in millions)					
Net interest expense	(1)	\$ (6)	\$ 5	83.3 %			
Other operating income	50	54	(4)	(7.4)			
Total operating income	49	48	1	2.1			
Expected credit losses	1	(1)	2	*			
Net operating income	48	49	(1)	(2.0)			
Operating expenses	45	51	(6)	(11.8)			
Profit (loss) before tax	3	\$ (2)	\$ 5	*			

Percentage change is greater than 100 percent.

Our GBM Other segment reported a profit before tax during the three and six months ended June 30, 2022 compared with a loss before tax during the prior year periods due primarily to lower operating expenses driven by lower administrative expenses and lower cost allocations from our support service functions as well as lower net interest expense driven by lower liquidity charges.

Corporate Center The following table summarizes the Group Reporting Basis results for our CC segment:

		Increase (Decrease)
2022 2021		Amount	%
(12)	\$ (1)	\$ (11)	*
16	18	(2)	(11.1)
4	17	(13)	(76.5)
	_		
4	17	(13)	(76.5)
115	71	44	62.0
(111)	\$ (54)	\$ (57)	*
	(12) 16 4 — 4	(dollars are i (12) \$ (1) 16 18 4 17	2022 2021 Amount (dollars are in millions) (12) \$ (1) \$ (11) 16 18 (2) 4 17 (13) — — — 4 17 (13) 115 71 44

			Increase (Decrease)			
Six Months Ended June 30,	2022	2021	Amount	%			
		(dollars are in millions)					
Net interest expense	\$ (13)	\$ (2)	\$ (11)	*			
Other operating income	8	29	(21)	(72.4)			
Total operating income (expense) ⁽¹⁾	(5)	27	(32)	*			
Expected credit losses	_		_				
Net operating income (expense)	(5)	27	(32)	*			
Operating expenses	181	102	79	77.5			
Loss before tax	\$ (186)	\$ (75)	\$ (111)	*			

Percentage change is greater than 100 percent.

The following table summarizes the impact of key activities on the total operating income of our CC segment:

					Iı	ncrease (De	ecrease)
Three Months Ended June 30,		2022	2021		Amount		%
			(do	llars are i	n milli		
Legacy structured credit products	····· \$	_	\$	_	\$	_	— %
Other		4		17		(13)	(76.5)
Total operating income	····· <u>\$</u>	4	\$	17	\$	(13)	(76.5)%
					Iı	ncrease (De	ecrease)
Six Months Ended June 30		2022		2021	An	nount	0/2

			11	ncrease (L	ecrease)
Six Months Ended June 30,	2022	2021	An	nount	%
Legacy structured credit products	1	\$ 3	\$	(2)	(66.7)%
Other	(6)	24		(30)	*
Total operating income	(5)	\$ 27	\$	(32)	*
-					

Our CC segment reported a higher loss before tax during the three and six months ended June 30, 2022 due primarily to higher operating expenses, higher interest expense and, in the year-to-date period, lower other operating income.

Net interest expense increased during the three and six months ended June 30, 2022 reflecting higher retained liquidity charges.

Other operating income was relatively flat during the three months ended June 30, 2022. In the year-to-date period, other operating income decreased due primarily to unfavorable movements related to the economic hedging of interest rate risk within our own debt, lower income from equity investments and higher losses on certain investments held for Community Reinvestment Act purposes.

Operating expenses increased during the three and six months ended June 30, 2022 due primarily to higher professional fees driven by higher attorney's fees, higher allocated restructuring related costs from HTSU and other HSBC affiliates, primarily support service project costs and severance costs, as well as higher costs associated with our investments in systems infrastructure and new technologies. These increases were partially offset by higher levels of expense capitalization related to internally developed software and the non-recurrence of \$10 million of lease impairment and other related costs recorded during the second quarter of 2021 associated with closed branches and certain office space as part of our Restructuring Plan.

Reconciliation of Segment Results As previously discussed, segment results are reported on a Group Reporting Basis. See Note 15, "Business Segments," in the accompanying consolidated financial statements for a reconciliation of our Group Reporting Basis segment results to U.S. GAAP consolidated totals.

Credit Quality

In the normal course of business, we enter into a variety of transactions that involve both on and off-balance sheet credit risk. Principal among these activities is lending to various commercial, institutional, governmental and individual customers. We participate in lending activity throughout the United States and, on a limited basis, internationally.

Allowance for Credit Losses / Liability for Off-Balance Sheet Credit Exposures Our accounting policies and methodologies related to the allowance for credit losses and liability for off-balance sheet credit exposures are presented under the caption "Critical Accounting Estimates" in MD&A and in Note 2, "Summary of Significant Accounting Policies and New Accounting Pronouncements," in our 2021 Form 10-K. Our approach toward credit risk management is summarized under the caption "Risk Management" in MD&A in our 2021 Form 10-K. There have been no significant revisions to our policies or methodologies during the first half of 2022.

The following table summarizes our allowance for credit losses and the liability for off-balance sheet credit exposures:

	June 30, 2022		arch 31, 2022	ember 31, 2021
		(in	millions)	
Allowance for credit losses:				
Loans:				
Commercial loans	\$ 499	\$	441	\$ 420
Consumer loans	35		26	27
Total loans	534		467	447
Securities held-to-maturity	_		1	1
Other financial assets measured at amortized cost ⁽¹⁾	1		1	1
Securities available-for-sale	2		_	1
Total allowance for credit losses	\$ 537	\$	469	\$ 450
Liability for off-balance sheet credit exposures	\$ 89	\$	84	\$ 103

⁽¹⁾ Primarily includes accrued interest receivables and customer acceptances.

The total allowance for credit losses at June 30, 2022 increased \$68 million or 14 percent as compared with March 31, 2022 and increased \$87 million or 19 percent as compared with December 31, 2021 due primarily to a higher loss estimate on our commercial loan portfolio and, to a lesser extent, our consumer loan portfolio.

Our commercial allowance for credit losses at June 30, 2022 increased \$58 million or 13 percent as compared with March 31, 2022 and increased \$79 million or 19 percent as compared with December 31, 2021 driven by the weakening of economic conditions which resulted in increases in credit reserves for risk factors associated with large loan and higher risk industry exposures, supply chain disruptions and energy price uncertainty, as well as weakness in the financial condition of certain clients and, as compared with March 31, 2022, a worsening of economic forecasts. Also contributing to the increase in both periods were higher loss estimates associated with loan growth and maturity extensions. The increase as compared with December 31, 2021 was partially offset by charge-offs.

Our consumer allowance for credit losses at June 30, 2022 increased \$9 million or 35 percent as compared with March 31, 2022 and increased \$8 million or 30 percent as compared with December 31, 2021 driven by the weakening of economic conditions which resulted in a worsening of economic forecasts as compared with March 31, 2022 and an increase in credit reserves for risk factors associated with economic uncertainty as compared with December 31, 2021.

The liability for off-balance sheet credit exposures at June 30, 2022 increased \$5 million or 6 percent as compared with March 31, 2022 resulting from the weakening of economic conditions. As compared with December 31, 2021, the liability for off-balance sheet credit exposures decreased \$14 million or 14 percent resulting from improvements in the credit condition of certain clients.

Analysis of the Allowance for Credit Losses on Loans

The following table presents the allowance for credit losses on loans by major loan categories:

	An	nount	% of Loans to Total Loans	An	nount	% of Loans to Total Loans	Aı	mount	% of Loans to Total Loans
		June 30, 2022		March 3		31, 2022	December		r 31, 2021
				(dollars are in millions)					
Commercial:									
Real estate, including construction	\$	162	14.2 %	\$	122	13.7 %	\$	73	14.7 %
Business and corporate banking		218	26.1		197	26.1		243	25.0
Global banking		118	21.0		120	20.4		100	19.9
Other commercial		1	11.0		2	12.3		4	11.6
Total commercial		499	72.3		441	72.4		420	71.2
Consumer:									
Residential mortgages		6	26.7		5	26.6		8	27.7
Home equity mortgages		7	.6		6	.5		5	.6
Credit cards		22	.3		15	.3		14	.4
Other consumer		_	.1		_	.2			.1
Total consumer		35	27.7		26	27.6		27	28.8
Total	\$	534	100.0 %	\$	467	100.0 %	\$	447	100.0 %

The following table sets forth key ratios for the allowance for credit losses on loans:

	June 30, 2022	March 31, 2022	December 31, 2021
Ratio of Allowance for credit losses to:			
Loans: ⁽¹⁾			
Commercial:			
Non-affiliates	1.21 %	1.13 %	1.14 %
Affiliates			
Total commercial	1.12	1.04	1.06
Consumer:			
Residential mortgages	.04	.03	.05
Home equity mortgages	1.99	1.96	1.54
Credit cards	10.78	7.32	6.86
Other consumer	_		_
Total consumer	.20	.16	.17
Total loans	.86	.80	.80
Nonperforming loans: (1)(2)			
Commercial	161 %	151 %	111 %
Consumer	17	19	11
Total nonperforming loans	103	109	72

⁽¹⁾ Ratios exclude loans held for sale as these loans are carried at the lower of amortized cost or fair value.

See Note 7, "Allowance for Credit Losses," in the accompanying consolidated financial statements for a rollforward of credit losses by loan categories for the three and six months ended June 30, 2022 and 2021.

The allowance for credit losses on loans as a percentage of total loans held for investment at June 30, 2022 increased as compared with both March 31, 2022 and December 31, 2021 as the increase in our allowance for credit losses for the reasons discussed above outpaced an increase in total loans held for investment.

⁽²⁾ Represents our commercial and consumer allowance for credit losses, as appropriate, divided by the corresponding outstanding balance of total nonperforming loans held for investment. Nonperforming loans include accruing loans contractually past due 90 days or more.

The allowance for credit losses on loans as a percentage of nonperforming loans held for investment at June 30, 2022 decreased as compared with March 31, 2022 as an increase in nonperforming loans as discussed further below in both our consumer and commercial loan portfolios outpaced the increase in our allowance for credit losses for the reasons discussed above. As compared with December 31, 2021, the allowance for credit losses on loans as a percentage of nonperforming loans held for investment increased due to the increase in our allowance for credit losses for the reasons discussed above and a decrease in nonperforming loans as discussed further below in both our consumer and commercial loan portfolios.

Delinquency The following table summarizes dollars of two-months-and-over contractual delinquency and two-months-and-over contractual delinquency as a percentage of total loans, excluding loans held for sale ("delinquency ratio").

	June 3	30, 2022	March	31, 2022	Decembe	er 31, 2021
	Delinquent Loans	1 1 1		Delinquency Ratio	Delinquent Loans	Delinquency Ratio
			(dollars are	e in millions)		
Commercial	\$ 128	.29 %	\$ 31	.07 %	\$ 112	.28 %
Consumer:						
Residential mortgages ⁽¹⁾⁽²⁾	110	.67	42	.27	103	.67
Home equity mortgages ⁽¹⁾⁽²⁾	3	.85	1	.33	1	.31
Credit cards	2	.98	2	.98	3	1.47
Total consumer	115	.67	45	.28	107	.67
Total	\$ 243	.39	\$ 76	.13	\$ 219	.39

⁽¹⁾ At June 30, 2022, March 31, 2022 and December 31, 2021, consumer mortgage loan delinquency includes \$46 million, \$7 million and \$24 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less costs to sell.

⁽²⁾ The following table reflects dollars of contractual delinquency and delinquency ratios for interest-only loans and adjustable rate mortgage ("ARM") loans:

	June 30, 2022			N	March 31, 2022			December	r 31, 2021		
	Delinquent Loans				Delinquency Ratio	Delinq Loa		Delinquency Ratio	D	elinquent Loans	Delinquency Ratio
		(dollars are in millions)									
Interest-only loans	\$	4	.10 %	\$	_	— %	\$	3	.07 %		
ARM loans		62	.50		31	.26		67	.56		

Our two-months-and-over contractual delinquency ratio increased 26 basis points compared with March 31, 2022 and was flat compared with December 31, 2021. The increase in the ratio as compared with March 31, 2022 was due to higher dollars of delinquency in both our commercial and consumer loan portfolios, partially offset by higher outstanding loan balances. As compared with December 31, 2021, higher dollars of delinquency in both our commercial and consumer loan portfolios were offset by higher outstanding loan balances.

Our commercial loan two-months-and-over contractual delinquency ratio increased 22 basis points compared with March 31, 2022 and was relatively flat compared with December 31, 2021. The increase in the ratio as compared with March 31, 2022 was due to higher dollars of delinquency driven primarily by two commercial real estate loans which became 60 days past due, partially offset by higher outstanding loan balances. As compared with December 31, 2021, the impact of higher dollars of delinquency in the second quarter was largely offset by collections and the partial charge-off of a global banking loan in the first quarter as well as higher outstanding loan balances.

Our consumer loan two-months-and-over contractual delinquency ratio increased 39 basis points compared with March 31, 2022 and was flat compared with December 31, 2021. The increase in the ratio as compared with March 31, 2022 was due to higher dollars of delinquency driven by the impact of transferring certain loans from held for sale to held for investment during the second quarter of 2022, which collectively included \$44 million of delinquent consumer mortgage loans, as well as certain private banking mortgage customers which became 60 days past due. The increase in the ratio as compared with March 31, 2022 was partially offset by higher outstanding loan balances. As compared with December 31, 2021, the impact of transferring certain loans from held for sale to held for investment in the second quarter was largely offset by the sale of certain non-performing mortgage loans during the first quarter of 2022 as well as higher outstanding loan balances.

Net Charge-offs of Loans The following table summarizes net charge-off (recovery) dollars as well as net charge-off (recovery) of loans for the period as a percentage of average loans, excluding loans held for sale ("net charge-off ratio"):

•	-	Th	ree Months	Ended June	30,		_	Si	ix Months E	nded June 3	i0 .	
		2022		2021				2022			2021	
	Net Charge- off Dollars	Average Loans	Net Charge- off Ratio									
						(dollars are	in millions)					
Commercial:												
Real estate, including construction	s —	\$ 8,404	 %	\$ —	\$ 9,883	— %	s —	\$ 8,290	%	\$ —	\$10,099	— %
Business and corporate banking	1	15,942	.03	13	13,006	.40	7	15,336	.09	14	13,215	.21
Global banking	_	12,148	_	12	12,444	.39	9	11,664	.15	12	12,621	.19
Other commercial	_	7,145	_	_	4,923	_	_	6,987	_	_	4,811	_
Total commercial	1	43,639	.01	25	40,256	.25	16	42,277	.08	26	40,746	.13
Consumer:												
Residential mortgages	(2)	15,787	(.05)	5	17,642	.11	(3)	15,690	(.04)	3	18,026	.03
Home equity mortgages	_	308	_	1	583	.69	(1)	315	(.64)	(1)	647	(.31)
Credit cards	(2)	197	(4.06)	68	826	33.01	(4)	182	(4.39)	84	908	18.62
Other consumer	(1)	48	(8.33)	6	246	9.77	(1)	55	(3.63)	10	268	7.46
Total consumer	(5)	16,340	(.12)	80	19,297	1.66	(9)	16,242	(.11)	96	19,849	.98
Total	\$ (4)	\$59,979	(.03)	\$ 105	\$59,553	.71	\$ 7	\$58,519	.02	\$ 122	\$60,595	.41

Our net charge-off ratio decreased 74 basis points during the three months ended June 30, 2022 due primarily to a lower level of net charge-offs in our consumer loan portfolio driven by the non-recurrence of \$56 million of charge-offs recorded during the second quarter of 2021 on certain loans that were transferred to held for sale as well as lower charge-offs in credit cards reflecting the impact of lower balances due to loan sales. Also contributing to the decrease in the ratio was a lower level of net charge-offs in our commercial loan portfolio driven by the sale of a global banking loan and the deterioration of a corporate banking loan in the prior year.

In the year-to-date period, our net charge-off ratio decreased 39 basis points due primarily to a lower level of net charge-offs in our consumer loan portfolio due primarily to the non-recurrence of charge-offs recorded during the second quarter of 2021 on certain loans that were transferred to held for sale as discussed above as well as lower charge-offs in credit cards reflecting the impact of lower balances due to loan sales. Also contributing to the decrease in the ratio was a lower level of net charge-offs in our commercial loan portfolio driven by lower charge-offs associated with loan sales.

Nonperforming Loans The following table summarizes nonperforming loans, including nonaccrual loans and accruing loans contractually 90 days or more past due, as well as nonperforming loans as a percentage of total loans, excluding loans held for sale ("nonperforming ratio"):

	June	30, 2022	Ma	rch 31, 2022	Decemb	per 31, 2021
	Nonperforming Loans ⁽¹⁾	Nonperforming Ratio	Nonperform Loans ⁽¹⁾	ing Nonperforming Ratio	g Nonperforming Loans ⁽¹⁾	Nonperforming Ratio
			(dollar	s are in millions)		
Commercial	\$ 309	.69 %	\$ 2	92 .69 %	% \$ 380	.95 %
Consumer:						
Residential mortgages ⁽²⁾⁽³⁾⁽⁴⁾	198	1.20	1	31 .84	229	1.48
Home equity mortgages ⁽²⁾⁽³⁾	9	2.56		6 1.96	9	2.77
Credit cards	1	.49		1 .49	2	.98
Total consumer	208	1.22	1	38 .85	240	1.49
Total	\$ 517	.84	\$ 4	30 .73	\$ 620	1.11
Other real estate owned ⁽⁵⁾	\$ 3	=	\$	3	\$ 2	- :

⁽¹⁾ See Note 6, "Loans," in the accompanying consolidated financial statements for a breakout of nonaccrual loans and accruing loans contractually 90 days or more past due. At June 30, 2022, March 31, 2022 and December 31, 2021, total nonperforming loans include \$2 million, \$2 million and \$3 million, respectively, of accruing loans contractually 90 days or more past due.

Our nonperforming loans ratio increased 11 basis points compared with March 31, 2022 due to higher nonperforming loans in our consumer loan portfolio, and to a lesser extent, our commercial loan portfolio, partially offset by higher outstanding loan balances. As compared with December 31, 2021, our nonperforming loans ratio decreased 27 basis points due to lower nonperforming loans in both our commercial and consumer loan portfolios as well as higher outstanding loan balances.

Our commercial nonperforming loans ratio was flat compared with March 31, 2022 as higher nonperforming loans due primarily to the downgrade of a corporate banking loan was offset by higher outstanding loan balances. As compared with December 31, 2021, our commercial nonperforming loans ratio decreased 26 basis points due to lower nonperforming loans driven by the paydown of a commercial real estate loan, loan sales and the partial charge-off of a global banking loan. Also contributing to the decrease in the ratio as compared with December 31, 2021 was higher outstanding loan balances.

Our consumer nonperforming loans ratio increased 37 basis points compared with March 31, 2022 due to higher nonperforming loans driven primarily by the impact of transferring certain loans from held for sale to held for investment during the second quarter of 2022, which collectively included \$63 million of consumer mortgage nonperforming loans. The increase in the ratio as compared with March 31, 2022 was partially offset by higher outstanding loan balances. As compared with December 31, 2021, our consumer nonperforming loans ratio decreased 27 basis points due to lower nonperforming loans as the impact of transferring certain loans from held for sale to held for investment in the second quarter was more than offset by the sale of certain non-performing mortgage loans and customers who were previously on forbearance relief returning to accrual status during the first quarter of 2022. Also contributing to the decrease in the ratio as compared with December 31, 2021 were higher outstanding loan balances.

Our policies and practices for problem loan management and placing loans on nonaccrual status are summarized in Note 2, "Summary of Significant Accounting Policies and New Accounting Pronouncements," in our 2021 Form 10-K.

⁽²⁾ At June 30, 2022, March 31, 2022 and December 31, 2021, nonperforming consumer mortgage loans include \$95 million, \$63 million and \$86 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less cost to sell.

⁽³⁾ Nonperforming consumer mortgage loans held for investment include all loans which are 90 or more days contractually delinquent as well as loans discharged under Chapter 7 bankruptcy and not re-affirmed and second lien loans where the first lien loan that we own or service is 90 or more days contractually delinquent.

⁽⁴⁾ Nonperforming consumer mortgage loans for all periods does not include guaranteed loans purchased from the Government National Mortgage Association. Repayment of these loans is predominantly insured by the Federal Housing Administration and as such, these loans have different risk characteristics from the rest of our customer loan portfolio.

⁽⁵⁾ Includes \$1 million or less of commercial other real estate owned at June 30, 2022, March 31, 2022 and December 31, 2021.

Concentration of Credit Risk A concentration of credit risk is defined as a significant credit exposure with an individual or group engaged in similar activities or affected similarly by economic conditions. We enter into a variety of transactions in the normal course of business that involve both on and off-balance sheet credit risk. Principal among these activities is lending to various commercial, institutional, governmental and individual customers throughout the United States and internationally. We manage the varying degrees of credit risk associated with on and off-balance sheet transactions through specific credit policies and procedures which provide for a strict approval, monitoring and reporting process. It is our policy to require collateral when it is deemed appropriate. Varying degrees and types of collateral are secured depending upon management's credit evaluation.

Commercial Credit Exposure Our commercial credit exposure is diversified across a broad range of industries. Commercial loans outstanding, excluding loans held for sale, and unused commercial commitments by industry are presented in the table below:

		June 30, 2022				December 31, 2021			
	C	ommercial Utilized	Co	Unused ommercial mmitments		ommercial Utilized	Co	Unused ommercial nmitments	
				(in m	illions	s)			
Diversified financials	···· \$	9,477	\$	12,980	\$	9,177	\$	13,128	
Real estate		6,615		2,214		5,937		2,289	
Consumer services		3,118		3,393		3,454		3,367	
Commercial and professional services		2,681		5,710		2,093		5,234	
Retailing		2,659		5,542		2,209		5,127	
Software and services		2,565		4,325		1,009		3,354	
Capital goods		1,883		5,712		1,833		6,140	
Consumer durables and apparel		1,823		2,976		1,515		2,889	
Chemicals		1,398		4,306		1,491		3,575	
Technology hardware and equipment		1,188		7,302		1,032		7,179	
Energy		1,034		5,414		1,155		5,852	
Utilities		1,005		840		956		1,286	
Health care equipment and services		911		2,527		785		2,359	
Food, beverage and tobacco		852		2,723		787		2,968	
Transportation		664		489		581		436	
Banks		623		385		35		421	
Food and staples retailing		606		1,542		522		2,003	
Metals and mining		495		429		432		676	
Pharmaceuticals, biotechnology and life science		378		3,507		476		3,471	
Paper and forest products		328		646		235		491	
Total commercial credit exposure in top 20 industries ⁽¹⁾		40,303		72,962		35,714		72,245	
All other industries		935		10,260		1,289		12,451	
Total commercial credit exposure ⁽²⁾	···· <u> </u>	41,238	\$	83,222	\$	37,003	\$	84,696	
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⁽¹⁾ Based on utilization at June 30, 2022.

⁽²⁾ Excludes commercial credit exposures with affiliates.

Geographic Concentrations The following table reflects regional exposure at June 30, 2022 and December 31, 2021 for our real estate secured loan portfolios, excluding loans held for sale:

	Commercial Real Estate, including Construction Loans	Residential Mortgages and Home Equity Mortgages
June 30, 2022		
New York State	25.8 %	32.1 %
California	16.3	43.9
North Central United States	10.3	0.9
North Eastern United States, excluding New York State	4.4	7.7
Southern United States	35.9	9.9
Western United States, excluding California	7.3	5.5
Total	100.0 %	100.0 %
December 31, 2021		
New York State	27.5 %	32.3 %
California	18.1	43.6
North Central United States	5.8	1.0
North Eastern United States, excluding New York State	5.0	7.9
Southern United States	34.7	9.8
Western United States, excluding California	8.9	5.4
Total	100.0 %	100.0 %

Residential Mortgage Loans Our consumer loan portfolio includes the following types of loans:

- Interest-only loans A loan which allows a customer to pay the interest-only portion of the monthly payment for a period of time which results in lower payments during the initial loan period.
- ARM loans A loan which allows us to adjust pricing on the loan in line with market movements.

The following table summarizes the balances of interest-only and ARM loans in our loan portfolios, excluding mortgages held for sale, at June 30, 2022 and December 31, 2021. Each category is not mutually exclusive and loans may appear in more than one category below.

	June 30, 2022	Dec	2021
	(in m	nillion	s)
Interest-only residential mortgage and home equity mortgage loans	3,992	\$	3,739
ARM loans ⁽¹⁾	12,452		11,852

⁽¹⁾ During the remainder of 2022 and during 2023, approximately \$135 million and \$485 million, respectively, of the ARM loans will experience their first interest rate reset.

The following table summarizes the concentrations of first and second liens within the outstanding residential mortgage and home equity mortgage portfolios, excluding mortgages held for sale, at June 30, 2022 and December 31, 2021:

	June 30, 2022	December 3 2021	1,
	(in m	illions)	
Closed end:			
First lien	6 16,475	\$ 15,46	59
Second lien	18	1	8
Revolving ⁽¹⁾ Total	333	30)7
Total	16,826	\$ 15,79)4

⁽¹⁾ A majority of revolving are second lien mortgages.

Credit Risks Associated with Derivative Contracts Credit risk associated with derivatives is measured as the net replacement cost of derivative contracts in a receivable position in the event the counterparties of such contracts fail to perform under the terms of those contracts. In managing derivative credit risk, both the current exposure, which is the replacement cost of contracts on the measurement date, as well as an estimate of the potential change in value of contracts over their remaining lives are considered. Counterparties to our derivative activities include financial institutions, central clearing parties, foreign and domestic government agencies, corporations, funds (mutual funds, hedge funds, etc.), insurance companies and private clients as well as other HSBC entities. These counterparties are subject to regular credit review by the credit risk management department. To minimize credit risk, we may enter into legally enforceable master netting agreements which reduce risk by permitting the closeout and netting of transactions with the same counterparty upon occurrence of certain events. In addition, we reduce credit risk by obtaining collateral from counterparties. The determination of the need for and the levels of collateral will differ based on an assessment of the credit risk of the counterparty and/or regulatory requirements.

The total risk in a derivative contract is a function of a number of variables, such as:

- volatility of interest rates, currencies, equity or corporate reference entity used as the basis for determining contract payments;
- current market events or trends;
- country risk;
- maturity and liquidity of contracts;
- creditworthiness of the counterparties in the transaction;
- the existence of a master netting agreement among the counterparties; and
- existence and value of collateral received from counterparties to secure exposures.

The table below presents total credit risk exposure calculated using the general risk-based capital rules of the Basel III Standardized Approach which includes the net positive mark-to-market of the derivative contracts plus any adjusted potential future exposure as measured in reference to the notional amount. The regulatory capital rules recognize that bilateral netting agreements reduce credit risk and, therefore, allow for reductions of risk-weighted assets when netting requirements have been met and collateral exists. As a result, risk-weighted amounts for regulatory capital purposes are a portion of the original gross exposures. Furthermore, many contracts contain provisions that allow us to close out the transaction if the counterparty fails to post required collateral. In addition, many contracts give us the right to break the transactions earlier than the final maturity date. As a result, these contracts have potential future exposures that are often much smaller than the future exposures derived from the regulatory capital rules.

	J	June 30, 2022	Dec	ember 31, 2021
		(in m	illion	s)
Risk associated with derivative contracts:				
Total credit risk exposure	\$	14,405	\$	11,896
Less: collateral held against exposure		4,260		3,894
Net credit risk exposure	\$	10,145	\$	8,002

Liquidity and Capital Resources

Effective liquidity management is defined as ensuring we can meet customer loan requests, customer deposit maturities/ withdrawals and other cash commitments efficiently under both normal operating conditions and under unpredictable circumstances of industry or market stress. To achieve this objective, we have guidelines that require sufficient liquidity to cover potential funding requirements in both the short- and long-term and to avoid over-dependence on volatile, less reliable funding markets. Guidelines are set for the consolidated balance sheet of HSBC USA to ensure that it is a source of strength for our regulated, deposit-taking banking subsidiary, as well as to address the more limited sources of liquidity available to it as a holding company. Similar guidelines are set for HSBC Bank USA to ensure that it can meet its liquidity needs in various stress scenarios. Cash flow analysis, including stress testing scenarios, forms the basis for liquidity management and contingency funding plans. See "Risk Management" in this MD&A for further discussion of our approach towards liquidity and funding risk management, including information regarding the key measures employed to define, monitor and control our liquidity and funding risk.

Interest Bearing Deposits with Banks totaled \$42,538 million and \$47,400 million at June 30, 2022 and December 31, 2021, respectively, of which \$42,238 million and \$47,259 million, respectively, were held with the Federal Reserve Bank. Balances may fluctuate from period to period depending upon our liquidity position at the time and our strategy for deploying liquidity.

Surplus interest bearing deposits with the Federal Reserve Bank may be deployed into securities purchased under agreements to resell or other investments depending on market conditions and the opportunity to maximize returns.

Federal Funds Sold and Securities Purchased under Agreements to Resell totaled \$4,941 million and \$10,514 million at June 30, 2022 and December 31, 2021, respectively. Balances may fluctuate from period to period depending upon our liquidity position at the time and our strategy for deploying liquidity.

Trading Assets includes securities totaling \$13,033 million and \$18,731 million at June 30, 2022 and December 31, 2021, respectively. See "Balance Sheet Review" in this MD&A for further analysis and discussion on trends.

Securities includes securities available-for-sale and securities held-to-maturity totaling \$35,728 million and \$40,501 million at June 30, 2022 and December 31, 2021, respectively. See "Balance Sheet Review" in this MD&A for further analysis and discussion on trends.

Short-Term Borrowings totaled \$5,898 million and \$6,338 million at June 30, 2022 and December 31, 2021, respectively. See "Balance Sheet Review" in this MD&A for further analysis and discussion on short-term borrowing trends.

Deposits totaled \$127,263 million and \$143,032 million at June 30, 2022 and December 31, 2021, respectively. See "Balance Sheet Review" in this MD&A for further analysis and discussion on deposit trends.

Long-Term Debt decreased to \$16,026 million at June 30, 2022 from \$17,236 million at December 31, 2021. The following table presents the maturities of long-term debt at June 30, 2022:

	(in	millions)
2022	\$	1,032
2023		1,689
2024		3,128
2025		4,418
2026		510
Thereafter		5,249
Total	\$	16,026

The following table summarizes issuances and retirements of long-term debt during the six months ended June 30, 2022 and 2021:

Six Months Ended June 30,	2022			2021
		(in mil	llions	,
Long-term debt issued	\$	2,845	\$	5,317
Long-term debt repaid		(1,884)		(6,154)
Net long-term debt issued (repaid)	\$	961	\$	(837)

See "Balance Sheet Review" in this MD&A for further analysis and discussion on long-term debt trends, including additional information on debt issued and repaid during the six months ended June 30, 2022.

Under our shelf registration statement on file with the SEC, we may issue certain securities including debt securities and preferred stock. We satisfy the eligibility requirements for designation as a "well-known seasoned issuer," which allows us to file a registration statement that does not have a limit on issuance capacity. The ability to issue under the registration statement is limited by the authority granted by the Board of Directors. During the first quarter of 2022, due to an anticipated decrease in utilization of the shelf registration statement, the Board of Directors approved a reduction in the amount we are authorized to issue from \$20,000 million at December 31, 2021 to \$15,000 million, of which \$6,669 million was available at June 30, 2022. HSBC Bank USA has a \$40,000 million Global Bank Note Program that provides for the issuance of subordinated and senior notes, of which \$11,981 million was available at June 30, 2022.

As a member of the FHLB and the Federal Reserve Bank of New York, we have secured borrowing facilities which are collateralized by loans and investment securities. At June 30, 2022, long-term debt included \$1,000 million of borrowings from the FHLB facility. Based upon the amounts pledged as collateral under these facilities, we have additional borrowing capacity of up to \$13,430 million.

Preferred Equity See Note 19, "Preferred Stock," in our 2021 Form 10-K for information regarding all outstanding preferred share issues.

Common Equity During the six months ended June 30, 2022, HSBC USA did not receive any cash capital contributions from its parent, HSBC North America, and did not make any capital contributions to its subsidiary, HSBC Bank USA.

Capital Ratios In managing capital, we develop targets for common equity Tier 1 capital to risk-weighted assets, Tier 1 capital to risk-weighted assets, total capital to risk-weighted assets and Tier 1 capital to adjusted quarterly average assets (i.e., the "Tier 1 leverage ratio"). Capital targets are reviewed at least semi-annually to ensure they reflect our business mix and risk profile, as well as real-time conditions and circumstances. The following table summarizes HSBC USA's Basel III capital ratios calculated as of June 30, 2022 and December 31, 2021:

	June 30, 2022	December 31, 2021
Common equity Tier 1 capital to risk-weighted assets	15.0 %	15.1 %
Tier 1 capital to risk-weighted assets	16.2	16.3
Total capital to risk-weighted assets	18.4	18.5
Tier 1 leverage ratio ⁽¹⁾	9.8	8.5

⁽¹⁾ Adjusted quarterly average assets, the Tier 1 leverage ratio denominator, reflects quarterly average assets adjusted for amounts permitted to be deducted from Tier 1 capital.

In response to the COVID-19 pandemic, the federal banking agencies issued a final rule that provided the option to transition in the regulatory capital impacts of the current expected credit loss accounting standard over a five-year period. In 2020, HSBC North America and HSBC Bank USA elected the five-year transition option and, as a result, our capital ratios were being reported in accordance with the transition rules in the final rule. However, as of December 31, 2021, there was no remaining impact to regulatory capital under the transition rules and, therefore, there are no amounts being phased into regulatory capital in subsequent periods.

We manage capital in accordance with HSBC Group policy. The HSBC North America Internal Capital Adequacy Assessment Process ("ICAAP") works in conjunction with the HSBC Group's ICAAP. The HSBC North America ICAAP applies to HSBC Bank USA and evaluates regulatory capital adequacy and capital adequacy under various stress scenarios. Our approach is to meet our capital needs for these stress scenarios locally through activities which reduce risk. To the extent that local alternatives are insufficient, as a wholly-owned subsidiary of HSBC, we would seek support from our ultimate parent. Regulatory capital requirements are based on the amount of capital required to be held, plus applicable capital buffers, as defined by regulations, and the amount of risk-weighted assets and leverage exposure, also calculated based on regulatory definitions.

We are subject to regulatory capital rules issued by U.S. banking regulators including Basel III (the "Basel III rule"). The Basel III rule establishes minimum capital ratios and overall capital adequacy standards for banks and bank holding companies ("BHCs"). HSBC North America, HSBC USA and HSBC Bank USA each calculate their risk-based capital requirements for credit risk under the Standardized Approach in the Basel III rule. In 2019, the FRB and the other federal banking agencies jointly finalized rules to implement the Economic Growth, Regulatory Relief and Consumer Protection Act that tailor the application of the enhanced prudential standards for large BHC and foreign banking organizations (the "Tailoring Rules"). The Tailoring Rules assign each BHC and IHC with \$50 billion or more in total U.S. assets into one of five classifications (Categories I through IV, and 'other firms') based on its size and four risk-based indicators. As of January 1, 2022, HSBC North America met the criteria to be re-classified as a Category IV firm and, as a result of this classification change, HSBC North America and HSBC Bank USA are no longer subject to the supplementary leverage ratio or the countercyclical capital buffer. Prior to January 1, 2022, HSBC North America and HSBC Bank USA were subject to Category III standards. For additional discussion of the Basel III rule requirements, including required minimum capital ratios, as well as further discussion of the Tailoring Rules, Category IV standards and other related regulatory developments and their expected impact see Part I, "Regulation and Competition - Regulatory Capital and Liquidity Requirements," in our 2021 Form 10-K. We continue to review the composition of our capital structure and capital buffers in light of these developments.

Capital Planning and Stress Testing The FRB requires certain U.S. top-tier BHCs and IHCs, including HSBC North America, to comply with the FRB's capital plan rule and CCAR program, as well as the supervisory stress tests conducted by the FRB. The stress tests are forward looking exercises to assess the impact of hypothetical macroeconomic baseline and severely adverse scenarios provided by the FRB on the financial condition and capital adequacy of a CCAR firm over a nine quarter planning horizon. As a result of its re-classification as a Category IV firm, HSBC North America is no longer subject to company-run stress testing and related disclosure requirements. Category IV firms are subject to supervisory stress testing on an every-other-year basis, although they may opt into such testing in an "off year" in order to recalibrate their stress capital buffer based on their most recent supervisory stress test. The FRB continues to supervise Category IV firms on an ongoing basis, including evaluation of the capital adequacy and capital planning processes during off-cycle years. For further discussion of capital planning and stress testing, including detail regarding the FRB's supervisory assessment as part of the CCAR process, see Part I, "Regulation and Competition - Regulatory Capital and Liquidity Requirements," in our 2021 Form 10-K.

HSBC North America submitted its 2022 CCAR capital plan in April 2022. In June 2022, the FRB publicly disclosed its supervisory stress test results for all CCAR firms, including HSBC North America. Stress testing results are based solely on

hypothetical adverse stress scenarios and should not be viewed or interpreted as forecasts of expected outcomes or capital adequacy or of the actual financial condition of HSBC North America. Capital planning and stress testing for HSBC North America may impact our future capital and liquidity.

While BHC regulatory capital compliance is generally performed at the HSBC North America level, and also separately for HSBC Bank USA, as a BHC we are required to meet minimum capital requirements imposed by the FRB. We present our capital ratios, together with HSBC Bank USA's in Note 16, "Retained Earnings and Regulatory Capital Requirements," in the accompanying consolidated financial statements.

2022 Funding Strategy Our current estimate for funding needs and sources for 2022 are summarized in the following table:

		Actual January 1 through ne 30, 2022	t	Stimated July 1 chrough cember 31, 2022	Estimated Full Year 2022	
			(in	billions)		
Increase (decrease) in funding needs:						
Net change in loans	. \$	2	\$		\$ 2	
Net change in short-term investments and securities		(15)		(1)	(16)	
Net change in trading and other assets		(5)		1	(4)	
Total funding needs	- \$	(18)	\$		\$ (18)	
Increase (decrease) in funding sources:						
Net change in deposits	. \$	(16)	\$	2	\$ (14)	
Net change in trading and other short-term liabilities		(1)		(3)	(4)	
Net change in long-term debt		(1)		1		
Total funding sources	- \$	(18)	\$		\$ (18)	

The above table reflects a long-term funding strategy. Daily balances fluctuate as we accommodate customer needs, while ensuring that we have liquidity in place to support the balance sheet maturity funding profile. Should market conditions deteriorate, we have contingency plans to generate additional liquidity through the sales of assets or financing transactions. We remain confident in our ability to access the market for long-term debt funding needs in the current market environment. We continue to seek well-priced and stable customer deposits. We also continue to sell new agency-eligible conforming residential mortgage loans to third parties.

HSBC Bank USA is subject to significant restrictions imposed by federal law on extensions of credit to, and certain other 'covered transactions' with HSBC USA and other affiliates. For further discussion, see Part I, "Regulation and Competition - Affiliate Transaction Restrictions," in our 2021 Form 10-K.

See "Risk Management" in this MD&A for further discussion relating to our liquidity contingency plans and our approach to liquidity and funding risk management.

Off-Balance Sheet Arrangements As part of our normal operations, we enter into credit derivatives and various off-balance sheet arrangements with affiliates and third parties. These arrangements arise principally in connection with our lending and client intermediation activities and involve primarily commitments to extend credit and, in certain cases, guarantees.

Commitments to extend credit include arrangements whereby we are contractually obligated to extend credit in the form of loans, participations in loans or similar transactions. At June 30, 2022 and December 31, 2021, we had commitments to extend credit totaling \$90.3 billion and \$94.1 billion, respectively, comprised primarily of commercial commitments and, to a lesser extent, consumer commitments. Commercial commitments comprise primarily those related to secured and unsecured loans and lines of credit. Consumer commitments comprise unused MasterCard/Visa credit card lines, where we have the right to change terms or conditions upon notification to the customer, and commitments to extend credit secured by residential properties, where we have the right to change terms or conditions, for cause, upon notification to the customer. For a summary of guarantees, including standby letters of credit and certain credit derivative transactions, as well as the contractual amounts outstanding at June 30, 2022 and December 31, 2021, see Note 18, "Guarantee Arrangements, Pledged Asset and Repurchase Agreements," in the accompanying consolidated financial statements.

The contractual amounts of these financial instruments represent our maximum possible credit exposure in the event that a counterparty draws down the full commitment amount or we are required to fulfill our maximum obligation under a guarantee. Many of these commitments and guarantees expire unused or without default. In addition, implementation of our business strategy (as described under the heading "Executive Overview - 2021 Events" in our 2021 Form 10-K) will affect our

contractual obligations over time, including with respect to consumer commitments. As a result, we believe that the contractual amount is not representative of the actual future credit exposure or funding requirements.

Our off-balance sheet arrangements also include transactions with unconsolidated variable interest entities ("VIEs"). See Note 17, "Variable Interest Entities," in the accompanying consolidated financial statements for a summary of these unconsolidated VIEs.

Fair Value

Fair Value Hierarchy Fair value measurement accounting principles establish a fair value hierarchy structure that prioritizes the inputs to determine the fair value of an asset or liability (the "Fair Value Framework"). The Fair Value Framework distinguishes between inputs that are based on observed market data and unobservable inputs that reflect market participants' assumptions. It emphasizes the use of valuation methodologies that maximize observable market inputs. For financial instruments carried at fair value, the best evidence of fair value is a quoted price in an actively traded market (Level 1). Where the market for a financial instrument is not active, valuation techniques are used. The majority of our valuation techniques use market inputs that are either observable or indirectly derived from and corroborated by observable market data for substantially the full term of the financial instrument (Level 2). Because Level 1 and Level 2 instruments are determined by observable inputs, less judgment is applied in determining their fair values. In the absence of observable market inputs, the financial instrument is valued based on valuation techniques that feature one or more significant unobservable inputs (Level 3). The determination of the level of fair value hierarchy within which the fair value measurement of an asset or a liability is classified often requires judgment and may change over time as market conditions evolve. We consider the following factors in developing the fair value hierarchy:

- whether the asset or liability is transacted in an active market with a quoted market price;
- the level of bid-ask spreads;
- a lack of pricing transparency due to, among other things, complexity of the product and market liquidity;
- whether only a few transactions are observed over a significant period of time;
- whether the pricing quotations differ substantially among independent pricing services;
- whether inputs to the valuation techniques can be derived from or corroborated with market data; and
- whether significant adjustments are made to the observed pricing information or model output to determine the fair value.

Level 1 inputs are unadjusted quoted prices in active markets that the reporting entity has the ability to access for identical assets or liabilities. A financial instrument is classified as a Level 1 measurement if it is listed on an exchange or is an instrument actively traded in the over-the-counter ("OTC") market where transactions occur with sufficient frequency and volume. We regard financial instruments such as debt securities, equity securities and derivative contracts listed on the primary exchanges of a country to be actively traded. Non-exchange-traded instruments classified as Level 1 assets include securities issued by the U.S. Treasury, to-be-announced securities, non-callable securities issued by U.S. Government sponsored enterprises and certain foreign government-backed debt.

Level 2 inputs are those that are observable either directly or indirectly but do not qualify as Level 1 inputs. We classify mortgage pass-through securities, agency and certain non-agency mortgage collateralized obligations, non-exchange-traded derivative contracts, asset-backed securities, obligations of U.S. states and political subdivisions, corporate debt securities, certain foreign government-backed debt, preferred securities, securities purchased and sold under resale and repurchase agreements, precious metals, certain loans held for sale, certain student loans, residential mortgage loans whose carrying amount was reduced based on the fair value of the underlying collateral and real estate owned as Level 2 measurements. Where possible, at least two quotations from independent sources are obtained based on transactions involving comparable assets and liabilities to validate the fair value of these instruments. We have established a process to understand the methodologies and inputs used by the third party pricing services to ensure that pricing information meets the fair value objective and, where appropriate, this pricing data is back-tested to market trade executions. Where significant differences arise among the independent pricing quotes and the internally determined fair value, we investigate and reconcile the differences. If the investigation results in a significant adjustment to the fair value, the instrument will be classified as Level 3 within the fair value hierarchy. In general, we have observed that there is a correlation between the credit standing and the market liquidity of a non-derivative instrument.

Level 2 derivative instruments are generally valued based on discounted future cash flows or an option pricing model adjusted for counterparty credit risk and market liquidity. The fair value of certain derivative products is determined using valuation techniques based on inputs derived from observable indices traded in the OTC market. Appropriate control processes and

procedures have been applied to ensure that the derived inputs are applied to value only those instruments that share similar risks to the relevant benchmark indices and therefore demonstrate a similar response to market factors.

Level 3 inputs are unobservable estimates that management expects market participants would use to determine the fair value of the asset or liability. That is, Level 3 inputs incorporate market participants' assumptions about risk and the risk premium required by market participants in order to bear that risk. We develop Level 3 inputs based on the best information available in the circumstances. At June 30, 2022 and December 31, 2021, our Level 3 measurements included the following: certain structured deposits and structured notes for which the embedded derivatives have significant unobservable inputs (e.g., volatility or default correlations), certain asset-backed securities, individually assessed commercial loans, mortgage servicing rights, derivatives with certain inputs which are unobservable, certain credit default swaps, certain loans held for sale and swap agreements entered into in conjunction with the sales of Visa Class B Shares for which the fair value is dependent upon the final resolution of the related litigation. See Note 19, "Fair Value Measurements," in the accompanying consolidated financial statements for additional information on Level 3 inputs.

Level 3 Measurements The following table provides information about Level 3 assets/liabilities in relation to total assets/liabilities measured at fair value at June 30, 2022 and December 31, 2021:

	June 30, 2022	December 31, 2021
	(dollars aı	e in millions)
Level 3 assets ⁽¹⁾⁽²⁾	\$ 369	\$ 2,356
Total assets measured at fair value ⁽¹⁾⁽³⁾	69,742	76,713
Level 3 liabilities ⁽¹⁾	3,023	2,598
Total liabilities measured at fair value ⁽¹⁾	30,878	28,125
Level 3 assets as a percent of total assets measured at fair value	0.5 %	3.1 %
Level 3 liabilities as a percent of total liabilities measured at fair value	9.8 %	9.2 %

⁽¹⁾ Presented without netting which allows the offsetting of amounts relating to certain contracts if certain conditions are met.

Significant Changes in Fair Value for Level 3 Assets and Liabilities During the first quarter of 2022, we sold certain loans which were transferred to held for sale during 2021 and were Level 3 assets measured at fair value on a non-recurring basis. See Note 8, "Loans Held for Sale," in the accompany consolidated financial statements for additional information.

See Note 19, "Fair Value Measurements," in the accompanying consolidated financial statements for information on additions to and transfers into (out of) Level 3 measurements during the three and six months ended June 30, 2022 and 2021 as well as for further details including the classification hierarchy associated with assets and liabilities measured at fair value.

Effect of Changes in Significant Unobservable Inputs The fair value of certain financial instruments is measured using valuation techniques that incorporate pricing assumptions not supported by, derived from or corroborated by observable market data. The resultant fair value measurements are dependent on unobservable input parameters which can be selected from a range of estimates and may be interdependent. Changes in one or more of the significant unobservable input parameters may change the fair value measurements of these financial instruments. For the purpose of preparing the financial statements, the final valuation inputs selected are based on management's best judgment that reflect the assumptions market participants would use in pricing similar assets or liabilities.

The unobservable input parameters selected are subject to the internal valuation control processes and procedures. When we perform a test of all the significant input parameters to the extreme values within the range at the same time, it could result in an increase of the overall fair value measurement of approximately \$22 million or a decrease of the overall fair value measurement of approximately \$24 million at June 30, 2022. The effect of changes in significant unobservable input parameters are primarily driven by the uncertainty in determining the fair value of certain credit-linked structured notes.

⁽²⁾ Includes \$231 million of recurring Level 3 assets and \$138 million of non-recurring Level 3 assets at June 30, 2022. Includes \$355 million of recurring Level 3 assets and \$2,001 million of non-recurring Level 3 assets at December 31, 2021.

⁽³⁾ Includes \$69,478 million of assets measured on a recurring basis and \$264 million of assets measured on a non-recurring basis at June 30, 2022. Includes \$74,511 million of assets measured on a recurring basis and \$2,202 million of assets measured on a non-recurring basis at December 31, 2021.

Risk Management

Overview Managing risk effectively is fundamental to the delivery of our strategic priorities.

We use a comprehensive risk management framework across the organization and across all risk types underpinned by our risk culture. This framework fosters continuous monitoring, promotes risk awareness and encourages sound operational and strategic decision-making. It also ensures a consistent approach to identifying, assessing, managing and reporting the risks we accept and incur in our activities.

Our Board of Directors has the ultimate responsibility for effective oversight of risk management. It is advised on risk matters by the Risk Committee of the Board of Directors, notably risk appetite and its alignment with our strategy, risk governance and internal controls, as well as high-level risk related matters. Robust risk governance and accountability are embedded throughout our business through an established framework that helps to ensure appropriate oversight of and accountability for the effective management of risk.

Our material risks The principal risks associated with our operations include the following:

- Credit risk is the risk of financial loss if a customer or counterparty fails to meet an obligation under a contract;
- *Treasury risk* is the risk of having insufficient capital, liquidity or funding resources to meet financial obligations and satisfy regulatory requirements, including pension risk. Treasury risk also includes the risk to our earnings due to changes in market interest rates;
- *Market risk* is the risk that movements in market factors, such as foreign exchange rates, interest rates, credit spreads, equity prices and commodity prices, will reduce our income or the value of our portfolios;
- Resilience risk is the risk that we are unable to provide critical services to our customers, affiliates and counterparties as a result of sustained and significant operational disruption;
- Regulatory compliance risk is the risk that we fail to observe the letter and spirit of relevant laws, codes, rules, regulations and standards of good market practice, which as a consequence incur fines and penalties and suffer damage to our business;
- Financial crime risk is the risk that we knowingly or unknowingly help parties to commit or to further potentially illegal activity, including money laundering, fraud, bribery and corruption, tax evasion, sanctions breaches, and terrorist and proliferation financing;
- Strategic risk is the risk that the business will fail to identify, execute and react appropriately to opportunities and/or threats arising from changes in the market, some of which may emerge over a number of years such as changing economic and political circumstances, customer requirements, demographic trends, regulatory developments or competitor action; and
- *Model risk* is the potential for adverse consequences from business decisions informed by models, which can be exacerbated by errors in methodology, design or the way they are used.

In the course of our regular risk management activities, we use models to help quantify the risk we are taking. We believe that the assumptions used in these models are reasonable within the parameters for which the models have been built and calibrated to operate, but events may unfold differently than what is assumed in the models. Consequently, actual results may differ significantly from model projections. The severe projections of macroeconomic variables during the COVID-19 pandemic and subsequent recovery represent events outside the parameters for which the models have been built. As a result, adjustments to model outputs to reflect consideration of management judgment are used with stringent governance in place to ensure appropriate results. Where models do not require adjustments, enhanced model monitoring confirms models are performing as intended.

See "Risk Management" in MD&A in our 2021 Form 10-K for a more complete discussion of the objectives of our risk management system as well as our risk management policies and practices. There have been no material changes to our approach to risk management since December 31, 2021.

Credit Risk Management Credit risk is managed through a robust risk identification and control framework which outlines clear and consistent policies, principles and guidance for risk managers. Credit risk is monitored using various internal risk management measures and within limits approved by individuals within a framework of delegated authorities. Our credit risk management procedures are designed for all stages of economic and financial cycles, including challenging periods of market volatility and economic uncertainty. During the first half of 2022, the impacts of the Russia-Ukraine war and the COVID-19 pandemic continued to create significant uncertainty about the future economic environment. While our credit risk exposure to Russia was immaterial at June 30, 2022, the impact of the war on general economic conditions, especially inflation, will continue to evolve and, therefore, the impact on our customers remains uncertain. We continue to monitor the performance of

our material commercial loans as conditions evolve and take necessary credit actions where warranted. See "Risk Management" in MD&A in our 2021 Form 10-K for a more complete discussion of our approach to credit risk.

Treasury Risk Management We continuously monitor our capital ratios and the impact of market events on our liquidity positions and will continue to adapt our frameworks as necessary to reflect market events and the evolving regulatory landscape and view as to best practices. See "Risk Management" in MD&A in our 2021 Form 10-K for a more complete discussion of our approach to treasury risk.

Capital risk See "Liquidity and Capital Resources" in this MD&A for a discussion of our approach to capital risk management, including our capital ratios and regulatory capital requirements.

Liquidity and funding risk As part of our approach towards liquidity and funding risk management, we employ the measures discussed below to define, monitor and control our liquidity and funding risk in accordance with HSBC policy.

As of January 1, 2022, HSBC North America met the criteria to be re-classified as a Category IV firm and, as a result of this classification change, HSBC North America and HSBC Bank USA are subject to a further reduced U.S. liquidity coverage ratio ("LCR") and net stable funding ratio ("NSFR") requirement of 70 percent so long as HSBC North America's weighted short-term wholesale funding equals or exceeds \$50 billion. HSBC North America and HSBC Bank USA elected to report subject to the reduced U.S. LCR and NSFR requirement of 70 percent beginning April 1, 2022, whereas they were previously subject to the requirement of 85 percent applicable under Category III standards.

The United Kingdom ("U.K.") Prudential Regulatory Authority ("PRA") based LCR is designed to be a short-term liquidity measure to ensure banks have sufficient High Quality Liquid Assets ("HQLA") to cover net stressed cash outflows over the next 30 days. At both June 30, 2022 and December 31, 2021, HSBC USA's LCR exceeded 100 percent. A LCR of 100 percent or higher reflects an unencumbered HQLA balance that is equal to or exceeds liquidity needs for a 30 calendar day liquidity stress scenario. HQLA consists of cash or assets that can be converted into cash at little or no loss of value in private markets. HSBC North America and HSBC Bank USA are also subject to the U.S. LCR rule and are required to report their LCR to U.S. regulators on a daily basis. Under the Tailoring Rules, a 70 percent LCR requirement applies to Category IV firms with weighted short-term wholesale funding that equals or exceeds \$50 billion and their depository institution subsidiaries. As a result, under the U.S. LCR rule, a LCR of 100 percent or higher reflects an unencumbered HQLA balance that is equal to or exceeds 70 percent of a Category IV firm's liquidity needs for a 30 calendar day liquidity stress scenario. During the six months ended June 30, 2022, HSBC Bank USA's LCR under the U.S. LCR rule remained above the 100 percent minimum requirement.

The U.K. PRA based NSFR, which is a longer term liquidity measure with a 12-month time horizon to ensure a sustainable maturity structure of assets and liabilities, took effect on January 1, 2022. At both June 30, 2022 and December 31, 2021, HSBC USA's NSFR exceeded 100 percent. The ratio at December 31, 2021 was estimated based on our interpretation and understanding of the Basel Committee NSFR guidance at that time. A NSFR of 100 percent or more reflects an available stable funding balance from liabilities and capital over the next 12 months that is equal to or exceeds the required amount of funding for assets and off-balance sheet exposures. HSBC North America and HSBC Bank USA are also subject to the U.S. NSFR rule. Under the Tailoring Rules, a 70 percent NSFR requirement applies to Category IV firms with weighted short-term wholesale funding that equals or exceeds \$50 billion and their depository institution subsidiaries. As a result, under the U.S. NSFR rule, a NSFR of 100 percent or more reflects an available stable funding balance from liabilities and capital over the next 12 months that is equal to or exceeds 70 percent of a Category IV firm's required amount of funding for assets and off-balance sheet exposures. At both June 30, 2022 and December 31, 2021, HSBC Bank USA's NSFR under the U.S. NSFR rule exceeded 100 percent.

As a Category IV firm, HSBC North America remains subject to liquidity stress testing and related liquidity buffer and liquidity risk management requirements. HSBC North America and HSBC Bank USA have liquidity profiles to support compliance with these rules and may need to make changes to their liquidity profiles to support compliance with any future rules.

Our liquidity and funding risk management approach includes deposits, supplemented by wholesale borrowing to fund our balance sheet, and using security sales or secured borrowings for liquidity stress situations in our liquidity contingency plans. In addition, regulations require banks to retain a portfolio of HQLA. As such, we are maintaining a large portfolio of high quality sovereign and sovereign guaranteed securities.

Our ability to regularly attract wholesale funds at a competitive cost is enhanced by strong ratings from the major credit ratings agencies. The following table reflects the short and long-term credit ratings of HSBC USA and HSBC Bank USA at June 30, 2022:

	Moody's	S&P	Fitch
HSBC USA:			
Short-term borrowings	P-1	A-2	F1+
Long-term/senior debt	A1	A-	\mathbf{A} +
HSBC Bank USA:			
Short-term borrowings	P-1	A-1	F1+
Long-term/senior debt	Aa3	A +	AA-

Rating agencies continue to evaluate economic and geopolitical trends, regulatory developments, future profitability, risk management practices and legal matters, all of which could lead to adverse ratings actions.

Although we closely monitor and strive to manage factors influencing our credit ratings, there is no assurance that our credit ratings will not change in the future. At June 30, 2022, none of the ratings on the debt of HSBC USA or HSBC Bank USA from any of the rating agencies were under review for potential downgrade.

See "Liquidity and Capital Resources" in this MD&A for further discussion of our liquidity position, including additional information regarding our outstanding borrowings, the remaining availability of our debt issuance programs and our funding strategy.

Interest rate risk Various techniques are utilized to quantify and monitor risks associated with the repricing characteristics of our assets, liabilities and derivative contracts. See "Risk Management" in MD&A in our 2021 Form 10-K for a more complete discussion of our approach to interest rate risk.

Economic value of equity ("EVE") EVE represents the present value of the banking book cash flows that could be provided to our equity holder under a managed run-off scenario. An EVE sensitivity represents the change in EVE due to a defined movement in interest rates. We manage to an immediate parallel upward shock of 200 basis points and an immediate parallel downward shock of 200 basis points to the market implied interest rates. At both June 30, 2022 and December 31, 2021, our EVE remained within risk limits for the up 200 and down 200 basis point interest rate shock scenarios.

Net interest income simulation modeling techniques We utilize simulation modeling to monitor a number of interest rate scenarios for their impact on projected net interest income. These techniques simulate the impact on projected net interest income under various scenarios, such as rate shock scenarios which assume immediate market rate movements by 100 basis points, as well as scenarios in which rates gradually rise or fall by 100 basis points over a twelve month period. In the gradual scenarios, 25 percent of the interest rate movement occurs at the beginning of each quarter. The following table reflects the impact on our projected net interest income of the scenarios utilized by these modeling techniques:

	June 30, 2022		December	31, 2021
	Amount	%	Amount	%
	(dollars are	in millions)	
Estimated increase (decrease) in projected net interest income (reflects projected rate movements on July 1, 2022 and January 1, 2022, respectively):				
Resulting from a gradual 100 basis point increase in the yield curve	\$ 198	6 %	\$ 225	9 %
Resulting from a gradual 100 basis point decrease in the yield curve	(203)	(6)	(130)	(5)
Other significant scenarios monitored (reflects projected rate movements on July 1, 2022 and January 1, 2022, respectively):				
Resulting from an immediate 100 basis point increase in the yield curve	339	11	308	13
Resulting from an immediate 100 basis point decrease in the yield curve	(337)	(11)	(334)	(14)

The projections do not take into consideration possible complicating factors such as the effect of changes in interest rates on the credit quality, size and composition of the balance sheet. Therefore, although this provides a reasonable estimate of interest rate sensitivity, actual results will differ from these estimates, possibly by significant amounts.

Market Risk Management Exposure to market risk is separated into two portfolios:

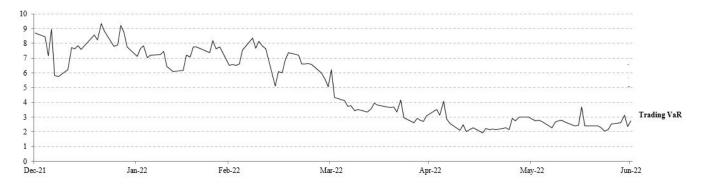
- Trading portfolios comprise positions arising from market-making and warehousing of client-derived positions.
- Non-trading portfolios comprise positions that primarily arise from the interest rate management of our retail and commercial banking assets and liabilities and financial investments classified as available-for-sale and held-to-maturity.

We apply similar risk management policies and measurement techniques to both trading and non-trading portfolios. Our objective is to manage and control market risk exposures to optimize return on risk while maintaining a market profile consistent with our established risk appetite. See "Risk Management" in MD&A in our 2021 Form 10-K for a more complete discussion of our approach to market risk.

<u>Value at risk ("VaR")</u> VaR is a technique for estimating potential losses on risk positions as a result of movements in market rates and prices over a specified time horizon and to a given level of confidence. The use of VaR is integrated into market risk management and calculated for all trading positions regardless of how we capitalize them. In addition, we calculate VaR for non-trading portfolios to have a complete picture of risk. VaR measures are calculated to a 99 percent confidence level and use a one-day holding period.

Trading portfolios Trading VaR generates primarily from the MSS segment of GBM. Portfolios comprise mainly foreign exchange products, precious metals (i.e., gold, silver, platinum) and credit default swaps.

The following graph summarizes daily VaR for our trading portfolios at a 99 percent confidence level (in millions):



The following table summarizes our trading VaR for the six months ended June 30, 2022 and at December 31, 2021:

	Credit Spread	1	Foreign Exchange and Commodity	Interest Rate	Di	Portfolio iversification ⁽¹⁾	Total ⁽²⁾
				(in millions)			
At June 30, 2022	\$ 1	\$	2	\$ 2	\$	(2) \$	3
Six Months Ended June 30, 2022							
Average	1		4	3		(3)	5
Maximum	7		9	6			9
Minimum	_		1	2			2
At December 31, 2021	\$ 5	\$	3	\$ 5	\$	(4) \$	9

Portfolio diversification is the market risk dispersion effect of holding a portfolio containing different risk types. It represents the reduction in unsystematic market risk that occurs when combining a number of different risk types, for example, foreign exchange, interest rate and credit spread, together in one portfolio. It is measured as the difference between the sum of the VaR by individual risk type and the combined total VaR. A negative number represents the benefit of portfolio diversification. As the maximum and minimum occur on different days for different risk types, it is not meaningful to calculate a portfolio diversification benefit for these measures.

Back-testing We routinely validate the accuracy of our VaR models by back-testing them against hypothetical profit and loss that excludes non-modeled items such as fees, commissions and revenues of intra-day transactions from the actual reported profit and loss. We would expect, under stable market conditions, to see two or three losses in excess of VaR at the 99 percent confidence level over a one-year period. However, in periods of unstable market conditions, we could see an increase in the number of back-testing exceptions.

During the three months ended June 30, 2022, we experienced six loss back-testing exceptions due primarily to significant increases in market volatility in the second quarter of 2022. These loss exceptions were driven by substantial market volatility in interest rates and metals arising from inflationary pressures, changes in the FRB's stance on interest rate hikes and geopolitical conditions.

Performance of the VaR model was in line with expectations given observed market movements. During the period, market risk exposures and actual reported losses remained within the entity's risk limits.

⁽²⁾ The total VaR is non-additive across risk types due to diversification effects. For presentation purposes, portfolio diversification of the VaR for trading portfolios includes VaR-based risk-not-in-VaR.

Non-trading portfolios Non-trading VaR predominantly relates to Markets Treasury and represents the potential negative changes in the investment portfolio market value (which includes available-for-sale and held-to-maturity assets) and associated hedges. Our investment portfolio holdings comprise mainly U.S. Treasury, U.S. Government agency mortgage-backed and U.S. Government sponsored mortgage-backed securities. Our non-trading VaR exposure is driven by interest rates and agency spread volatility.

The following table summarizes our non-trading VaR for the six months ended June 30, 2022 and at December 31, 2021:

	Credit Spread	Interest Rate	Portfolio Diversification ⁽¹⁾	Total ⁽²⁾
		(in m	illions)	
At June 30, 2022	\$ 48	\$ 45	\$ (27)	\$ 66
Six Months Ended June 30, 2022				
Average	55	64	(35)	84
Maximum	75	116		127
Minimum	47	41		64
At December 31, 2021	\$ 62	\$ 84	\$ (34)	\$ 112

⁽¹⁾ Refer to the Trading VaR table above for additional information.

Non-trading VaR also includes the interest rate risk of non-trading financial assets and liabilities held by the global businesses and transfer priced into Markets Treasury which has the mandate to centrally manage and hedge it. See "Treasury Risk Management" above for a broader discussion on how interest rate risk is managed.

CONSOLIDATED AVERAGE BALANCES AND INTEREST RATES

The following table summarizes the quarter-to-date and year-to-date average daily balances of the principal components of assets, liabilities and equity together with their respective interest amounts and rates earned or paid. Net interest margin is calculated by dividing net interest income by the average interest earning assets from which interest income is earned. Loan interest for the three and six months ended June 30, 2022 included fees of \$9 million and \$22 million, respectively, compared with fees of \$28 million and \$48 million during the three and six months ended June 30, 2021, respectively.

Three Months Ended June 30,		20	22		2021				
		Interest		Rate	Average Balance	Interest		Rate	
	(dollars are in millions)								
Assets:									
Interest bearing deposits with banks	\$ 45,655	\$	97	.85 %	\$ 53,780	\$	15	.11 %	
Federal funds sold and securities purchased under resale agreements	2,997		13	1.74	4,204		2	.19	
Trading securities	13,006		55	1.70	20,594		54	1.05	
Securities	36,918		169	1.84	40,992		160	1.57	
Loans:									
Commercial	44,028		309	2.82	40,587		275	2.72	
Consumer:									
Residential mortgages	16,378		118	2.89	18,563		135	2.92	
Home equity mortgages	354		3	3.40	676		4	2.37	
Credit cards	213		4	7.53	896		21	9.40	
Other consumer	153		3	7.86	288		6	8.36	
Total consumer	17,098		128	3.00	20,423		166	3.26	
Total loans	61,126		437	2.87	61,010		441	2.90	
Other	2,414		12	1.99	2,671	_	4	.60	
Total interest earning assets	\$ 162,116	\$	783	1.94 %	\$ 183,251	\$	676	1.48 %	
Allowance for credit losses					(799)	_			
Cash and due from banks	961				1,232				
Other assets	11,055				12,811				
Total assets					\$ 196,495				
Liabilities and Equity:									
Domestic deposits:									
Savings deposits	\$ 56,278	\$	40	.29 %	\$ 67,091	\$	28	.17 %	
Time deposits			45	1.87	12,962		24	.74	
Other interest bearing deposits	20,787		45	.87	21,424		14	.26	
Foreign deposits	· · · · · · · · · · · · · · · · · · ·		5	.31	6,176		1	.03	
Deposits held for sale			_	_	2,773		2	.23	
Total interest bearing deposits	93,105		135	.58	110,426	_	69	.25	
Short-term borrowings:						_			
Securities sold under repurchase agreements			8	1.68	983		_	.15	
Commercial paper	,		12	1.13	3,005		3	.40	
Other short-term borrowings	294		1	1.36	254		1	1.58	
Total short-term borrowings			21	1.31	4,242	_	4	.38	
Long-term debt			89	2.28	19,031	_	78	1.64	
Total interest bearing debt.	- ,		245	.85	133,699	_	151	.45	
Tax liabilities and other	-,		6	2.53	858		2	.93	
Total interest bearing liabilities		\$	251	.87 %	\$ 134,557	\$	153	.46 %	
Net interest income/Interest rate spread		\$	532	1.07 %	J 10 1,007	\$	523	1.02 %	
Noninterest bearing deposits		-			38,128			1.02 70	
Other liabilities	,				5,735				
Total equity	-)				18,075				
Total liabilities and equity	,				\$ 196,495				
Net interest margin on average earning assets				1 32 %	ψ 170, 1 73			1.14 %	
				1.32 %				1.17 /0	

Six Months Ended June 30,		2022			2021			
	Average Balance	Interest	Rate	Average Balance	Interest	Rate		
Acceptor			(dollars are	in millions)				
Assets:	Ø 40.036	Ø 122	50.0 /	A 41.550	e 22	11.0/		
Interest bearing deposits with banks	. ,	\$ 122	.50 %		\$ 22	.11 %		
Federal funds sold and securities purchased under resale agreements	· · · · · · · · · · · · · · · · · · ·	15	1.05	14,371	11	.15		
Trading securities	,	118	1.64	19,780	102	1.04		
Securities	38,429	310	1.63	43,879	337	1.55		
Loans:								
Commercial	42,658	547	2.59	41,013	557	2.74		
Consumer:								
Residential mortgages		244	2.89	18,558	273	2.97		
Home equity mortgages		6	2.83	694	9	2.62		
Credit cards	200	10	8.07	942	42	8.99		
Other consumer		6	6.65	289	11	7.68		
Total consumer		266	2.99	20,483	335	3.30		
Total loans	00,571	813	2.71	61,496	892	2.93		
Other		17	1.48	2,774	13	.95		
Total interest earning assets		\$ 1,395	1.68 %	\$ 183,850	\$ 1,377	1.51 %		
Allowance for credit losses	(458)			(894)				
Cash and due from banks	956			1,268				
Other assets	10,.0>			13,562				
Total assets	··· <u>\$ 178,735</u>			\$ 197,786				
Liabilities and Equity:								
Domestic deposits:								
Savings deposits	\$ 58,475	\$ 61	.21 %	\$ 67,602	\$ 59	.18 %		
Time deposits	9,165	64	1.41	15,222	58	.77		
Other interest bearing deposits	20,310	60	.60	21,824	30	.28		
Foreign deposits	6,187	6	.20	5,926	1	.03		
Deposits held for sale	1,958	2	.21	1,394	2	.23		
Total interest bearing deposits	96,095	193	.41	111,968	150	.27		
Short-term borrowings:								
Securities sold under repurchase agreements	2,242	9	.81	1,673	1	.12		
Commercial paper	3,978	16	.81	3,048	6	.40		
Other short-term borrowings	274	1	.74	246	2	1.64		
Total short-term borrowings	6,494	26	.81	4,967	9	.37		
Long-term debt	16,065	157	1.97	19,343	160	1.67		
Total interest bearing debt		376	.64	136,278	319	.47		
Tax liabilities and other		10	2.01	771	4	1.05		
Total interest bearing liabilities		\$ 386	.65 %	\$ 137,049	\$ 323	.48 %		
Net interest income/Interest rate spread		\$ 1,009	1.03 %		\$ 1,054	1.03 %		
Noninterest bearing deposits		,007		36,667	- 1,001	1.05 70		
Other liabilities	- /			5,930				
Total equity	.,010			18,140				
Total liabilities and equity				\$ 197,786				
· · · · · · · · · · · · · · · · · · ·	· φ 1/0,/33			9 171,100				

Item 3. Quantitative and Qualitative Disclosures about Market Risk

Information required by this Item is included within Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations in the Risk Management section under the captions "Treasury Risk Management - Interest Rate Risk" and "Market Risk Management."

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures We maintain a system of disclosure controls and procedures designed to ensure that information required to be disclosed by HSBC USA in the reports we file or submit under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), is recorded, processed, summarized and reported on a timely basis. Our Board of Directors, operating through its Audit Committee, which is composed entirely of independent non-executive directors, provides oversight to our financial reporting process.

We conducted an evaluation, with the participation of the Chief Executive Officer ("CEO") and Chief Financial Officer ("CFO"), of the effectiveness of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Exchange Act) as of the end of the period covered by this report. Based upon that evaluation, the CEO and CFO concluded that our disclosure controls and procedures were effective as of the end of the period covered by this report so as to alert them in a timely fashion to material information required to be disclosed in reports we file under the Exchange Act.

Changes in Internal Control over Financial Reporting There has been no change in our internal control over financial reporting that occurred during the quarter ended June 30, 2022 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II

Item 1. Legal Proceedings

See Note 20, "Litigation and Regulatory Matters," in the accompanying consolidated financial statements for our legal proceedings disclosure, which is incorporated herein by reference.

Item 5. Other Information

Disclosures pursuant to Section 13(r) of the Securities Exchange Act Section 13(r) of the Securities Exchange Act requires each issuer registered with the SEC to disclose in its annual or quarterly reports whether it or any of its affiliates have knowingly engaged in specified activities or transactions with persons or entities targeted by U.S. sanctions programs relating to Iran, terrorism, or the proliferation of weapons of mass destruction, even if those activities are not prohibited by U.S. law and are conducted outside the U.S. by non-U.S. affiliates in compliance with local laws and regulations.

To comply with this requirement, HSBC has requested relevant information from its affiliates globally. During the period covered by this Form 10-Q, HUSI did not engage in activities or transactions requiring disclosure pursuant to Section 13(r) other than those activities related to frozen accounts and transactions permitted under relevant U.S. sanctions programs described under "Frozen Accounts and Transactions" below. The following activities conducted by our affiliates are disclosed in response to Section 13(r):

Legacy contractual obligations related to guarantees Between 1996 and 2007, the HSBC Group provided guarantees to a number of its non-Iranian customers in Europe and the Middle East for various business activities in Iran. In a number of cases, the HSBC Group issued counter indemnities involving Iranian banks as the Iranian beneficiaries of the guarantees required that they be backed directly by Iranian banks. The Iranian banks to which the HSBC Group provided counter indemnities included Bank Tejarat, Bank Melli, and the Bank of Industry and Mine.

There was no measurable gross revenue in the second quarter of 2022 under those guarantees and counter indemnities. The HSBC Group does not allocate direct costs to fees and commissions and, therefore, has not disclosed a separate net profit measure. The HSBC Group is seeking to cancel all relevant guarantees and counter indemnities, and does not currently intend to provide any new guarantees or counter indemnities involving Iran. No guarantees were cancelled in the second quarter of 2022, and approximately 14 remain outstanding.

Other relationships with Iranian banks Activity related to U.S.-sanctioned Iranian banks not covered elsewhere in this disclosure includes the matter described below.

The HSBC Group acts as the trustee and administrator for a pension scheme involving eight employees of a U.S.-sanctioned Iranian bank in Asia. Under the rules of this scheme, the HSBC Group accepts contributions from the Iranian bank each month and allocates the funds into the pension accounts of the Iranian bank's employees. The HSBC Group runs and operates this pension scheme in accordance with applicable laws and regulations. Estimated gross revenue, which includes fees and/or commissions, generated by this pension scheme during the second quarter of 2022, was approximately \$651.

For the Iranian bank related-activity discussed above, the HSBC Group does not allocate direct costs to fees and commissions and, therefore, has not disclosed a separate net profit measure.

The HSBC Group has been holding a safe custody box for the Central Bank of Iran. For a number of years, the box has not been accessed by the Central Bank of Iran, and no fees have been charged to the Central Bank of Iran.

The HSBC Group currently intends to continue to wind down the above activities, to the extent legally permissible, and not enter into any new such activity.

Activity related to U.S. Executive Order 13224 The HSBC Group maintained an account for an entity customer in Asia who was designated under Executive Order 13224 in the third quarter of 2021, and the account was restricted in the third quarter of 2021. The beneficial owner of the entity was also designated under Executive Order 13224 in the third quarter of 2021. The HSBC Group engaged in one domestic transaction with the beneficial owner of the entity as part of the customer exit process.

For these activities, there was no measurable gross revenue or net profit to the HSBC Group during the second quarter of 2022.

Other activity The HSBC Group has a non-Iranian insurance company customer in the Middle East that, during the second quarter of 2022, made local currency domestic payments for the reimbursement of medical treatment to a hospital located outside Iran that is owned by the Government of Iran. The HSBC Group processed these payments from its customer to the hospital.

The HSBC Group has six customers in the Middle East that, during the second quarter of 2022, received local currency domestic checks from an insurance company outside Iran that is owned by the Government of Iran. The HSBC Group processed these checks from the insurance company to its customers.

The HSBC Group has two customers in Europe that, during the second quarter of 2022, received local currency domestic payments from a bank owned by the Government of Iran in relation to management charges for property owned by the bank. The HSBC Group processed these payments to its customers.

The HSBC Group had an individual customer in Europe that was employed as a director of a bank owned by the Government of Iran. The customer's account was closed and exited during the second quarter of 2022. The HSBC Group engaged in local currency domestic transactions as part of the exit process for its customer.

For these activities, there was no measurable gross revenue or net profit to the HSBC Group during the second quarter of 2022.

Frozen accounts and transactions The HSBC Group and HSBC Bank USA (a subsidiary of HUSI) maintain several accounts that are frozen as a result of relevant sanctions programs, and safekeeping boxes and other similar custodial relationships, for which no activity, except as licensed or otherwise authorized, took place during the second quarter of 2022. There was no measurable gross revenue or net profit to the HSBC Group during the second quarter of 2022 relating to these frozen accounts.

Item 6. Exhibits

- Articles of Incorporation and amendments and supplements thereto (incorporated by reference to Exhibit 3(a) to HSBC USA Inc.'s Annual Report on Form 10-K for the year ended December 31, 1999, Exhibit 3 to HSBC USA Inc.'s Quarterly Report on Form 10-Q for the quarter ended September 30, 2000, Exhibit 3.2 to HSBC USA Inc.'s Current Report on Form 8-K filed April 4, 2005, Exhibit 3.3 to HSBC USA Inc.'s Current Report on Form 8-K filed April 4, 2005, Exhibit 3.2 to HSBC USA Inc.'s Current Report on Form 8-K filed October 14, 2005, Exhibit 3.2 to HSBC USA Inc.'s Current Report on Form 8-K filed May 22, 2006 and Exhibit 3.2 to HSBC USA Inc.'s Current Report on Form 8-K filed on May 31, 2016).
- 3(ii) Bylaws of HSBC USA Inc., as Amended and Restated effective July 20, 2022 (incorporated by reference to Exhibit 3.2 to HSBC USA Inc.'s Current Report on Form 8-K filed July 21, 2022).
- 31 Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 32 <u>Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
- 101.INS The instance document does not appear in the interactive data file because its XBRL tags are embedded within the Inline XBRL document⁽¹⁾
- 101.SCH Inline XBRL Taxonomy Extension Schema Document⁽¹⁾
- 101.CAL Inline XBRL Taxonomy Extension Calculation Linkbase Document⁽¹⁾
- 101.DEF Inline XBRL Taxonomy Extension Definition Linkbase Document⁽¹⁾
- 101.LAB Inline XBRL Taxonomy Extension Label Linkbase Document⁽¹⁾
- 101.PRE Inline XBRL Taxonomy Extension Presentation Linkbase Document⁽¹⁾
 - 104 Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)

Pursuant to Rule 405 of Regulation S-T, includes the following financial information included in our Quarterly Report on Form 10-Q for the quarter ended June 30, 2022, formatted in Inline eXtensible Business Reporting Language ("Inline XBRL"): (i) the Consolidated Statement of Income for the three and six months ended June 30, 2022 and 2021, (ii) the Consolidated Statement of Comprehensive Income (Loss) for the three and six months ended June 30, 2022 and 2021, (iii) the Consolidated Balance Sheet at June 30, 2022 and December 31, 2021, (iv) the Consolidated Statement of Changes in Equity for the three and six months ended June 30, 2022 and 2021, (v) the Consolidated Statement of Cash Flows for the six months ended June 30, 2022 and 2021, and (vi) the Notes to Consolidated Financial Statements.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, HSBC USA Inc. has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: August 1, 2022

HSBC USA INC.

By: ____/s/ KAVITA MAHTANI

Kavita Mahtani Senior Executive Vice President and Chief Financial Officer

CERTIFICATION OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

Certification of Chief Executive Officer

I, Michael Roberts, certify that:

- 1. I have reviewed this report on Form 10-Q of HSBC USA Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be
 designed under our supervision, to ensure that material information relating to the registrant, including its
 consolidated subsidiaries, is made known to us by others within those entities, particularly during the period
 in which this report is being prepared;
 - b. designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 1, 2022

/s/ MICHAEL ROBERTS

Michael Roberts Chairman of the Board, President and Chief Executive Officer

Certification of Chief Financial Officer

I, Kavita Mahtani, certify that:

- 1. I have reviewed this report on Form 10-Q of HSBC USA Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 1, 2022

/s/ KAVITA MAHTANI

Kavita Mahtani Senior Executive Vice President and Chief Financial Officer

CERTIFICATION OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

The certification set forth below is being submitted in connection with the HSBC USA Inc. (the "Company") Quarterly Report on Form 10-Q for the period ending June 30, 2022 as filed with the Securities and Exchange Commission on the date hereof (the "Report") for the purpose of complying with Rule 13a-14(b) or Rule 15d-14(b) of the Securities Exchange Act of 1934 (the "Exchange Act") and Section 1350 of Chapter 63 of Title 18 of the United States Code.

I, Michael Roberts, certify that:

- 1. the Report fully complies with the requirements of Section 13(a) or 15(d) of the Exchange Act; and
- 2. the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of HSBC USA Inc.

Date: August 1, 2022

/s/ MICHAEL ROBERTS

Michael Roberts Chairman of the Board, President and Chief Executive Officer

This certification accompanies each Report pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 and shall not, except to the extent required by the Sarbanes-Oxley Act of 2002, be deemed filed by HSBC USA Inc. for purposes of Section 18 of the Securities Exchange Act of 1934, as amended.

The signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to HSBC USA Inc. and will be retained by HSBC USA Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

Certification pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

The certification set forth below is being submitted in connection with the HSBC USA Inc. (the "Company") Quarterly Report on Form 10-Q for the period ending June 30, 2022 as filed with the Securities and Exchange Commission on the date hereof (the "Report") for the purpose of complying with Rule 13a-14(b) or Rule 15d-14(b) of the Securities Exchange Act of 1934 (the "Exchange Act") and Section 1350 of Chapter 63 of Title 18 of the United States Code.

I, Kavita Mahtani, certify that:

- 1. the Report fully complies with the requirements of Section 13(a) or 15(d) of the Exchange Act; and
- 2. the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of HSBC USA Inc.

Date: August 1, 2022

/s/ KAVITA MAHTANI

Kavita Mahtani Senior Executive Vice President and Chief Financial Officer

This certification accompanies each Report pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 and shall not, except to the extent required by the Sarbanes-Oxley Act of 2002, be deemed filed by HSBC USA Inc. for purposes of Section 18 of the Securities Exchange Act of 1934, as amended.

The signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to HSBC USA Inc. and will be retained by HSBC USA Inc. and furnished to the Securities and Exchange Commission or its staff upon request.