
**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 EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2016
OR

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

For the transition period from _____ to _____

Commission file number 001-07436

HSBC USA Inc.

(Exact name of registrant as specified in its charter)

Maryland

(State of incorporation)

452 Fifth Avenue, New York

(Address of principal executive offices)

13-2764867

(I.R.S. Employer Identification No.)

10018

(Zip Code)

(212) 525-5000

Registrant's telephone number, including area code

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller
reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

As of July 29, 2016, there were 714 shares of the registrant's common stock outstanding, all of which are owned by HSBC North America Inc.

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PART I

Item 1. Financial Statements

CONSOLIDATED STATEMENT OF INCOME (LOSS) UNAUDITED)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Interest income:				
Loans	\$ 572	\$ 515	\$ 1,141	\$ 1,016
Securities	243	223	487	423
Trading securities	60	91	145	186
Short-term investments	104	26	168	48
Other	1	14	19	29
Total interest income	980	869	1,960	1,702
Interest expense:				
Deposits	117	54	222	100
Short-term borrowings	21	11	39	22
Long-term debt	203	173	400	340
Other	1	5	7	8
Total interest expense	342	243	668	470
Net interest income	638	626	1,292	1,232
Provision for credit losses	134	(6)	291	47
Net interest income after provision for credit losses	504	632	1,001	1,185
Other revenues:				
Credit card fees	13	11	27	21
Trust and investment management fees	39	46	78	81
Other fees and commissions	177	190	342	372
Trading revenue	49	24	65	57
Other securities gains, net	36	35	65	58
Servicing and other fees from HSBC affiliates	51	53	105	109
Residential mortgage banking revenue	10	15	27	34
Gain (loss) on instruments designated at fair value and related derivatives	(38)	56	178	141
Other income (loss)	(44)	(27)	(132)	(6)
Total other revenues	293	403	755	867
Operating expenses:				
Salaries and employee benefits	242	267	483	513
Support services from HSBC affiliates	355	385	675	737
Occupancy expense, net	57	59	116	115
Other expenses	169	139	275	262
Total operating expenses	823	850	1,549	1,627
Income (loss) before income tax	(26)	185	207	425
Income tax expense (benefit)	(5)	98	74	174
Net income (loss)	\$ (21)	\$ 87	\$ 133	\$ 251

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

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME (LOSS) (UNAUDITED)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
<i>Net income (loss)</i>	\$ (21)	\$ 87	\$ 133	\$ 251
Net change in unrealized gains (losses), net of tax:				
Investment securities	208	(213)	486	(241)
Derivatives designated as cash flow hedges.....	(11)	31	(56)	12
Pension and post-retirement benefit plans.....	—	—	—	1
<i>Total other comprehensive income (loss)</i>	197	(182)	430	(228)
<i>Comprehensive income (loss)</i>	<u>\$ 176</u>	<u>\$ (95)</u>	<u>\$ 563</u>	<u>\$ 23</u>

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

CONSOLIDATED BALANCE SHEET (UNAUDITED)

	June 30, 2016	December 31, 2015
	(in millions, except share data)	
Assets⁽¹⁾		
Cash and due from banks.....	\$ 915	\$ 968
Interest bearing deposits with banks.....	13,799	7,478
Federal funds sold and securities purchased under agreements to resell (includes \$782 million designated under fair value option at June 30, 2016).....	34,666	19,847
Trading assets.....	18,812	17,085
Securities available-for-sale.....	38,424	35,773
Securities held-to-maturity (fair value of \$13.6 billion and \$14.2 billion at June 30, 2016 and December 31, 2015, respectively).....	13,215	14,024
Loans.....	79,810	82,917
Less – allowance for credit losses.....	1,063	912
Loans, net.....	<u>78,747</u>	<u>82,005</u>
Loans held for sale (includes \$867 million and \$151 million designated under fair value option at June 30, 2016 and December 31, 2015, respectively).....	1,369	2,185
Properties and equipment, net.....	211	230
Intangible assets, net.....	37	181
Goodwill.....	1,612	1,612
Other assets.....	9,066	6,890
Total assets.....	<u>\$ 210,873</u>	<u>\$ 188,278</u>
Liabilities⁽¹⁾		
Debt:		
Domestic deposits:		
Noninterest bearing.....	\$ 32,072	\$ 29,693
Interest bearing (includes \$7.3 billion and \$6.9 billion designated under fair value option at June 30, 2016 and December 31, 2015, respectively).....	85,805	77,259
Foreign deposits:		
Noninterest bearing.....	773	747
Interest bearing.....	14,169	10,880
Total deposits.....	<u>132,819</u>	<u>118,579</u>
Short-term borrowings (includes \$2.7 billion and \$2.0 billion designated under fair value option at June 30, 2016 and December 31, 2015, respectively).....	7,376	4,995
Long-term debt (includes \$9.2 billion designated under fair value option at both June 30, 2016 and December 31, 2015).....	34,778	33,509
Total debt.....	<u>174,973</u>	<u>157,083</u>
Trading liabilities.....	10,692	7,455
Interest, taxes and other liabilities.....	4,148	3,215
Total liabilities.....	<u>189,813</u>	<u>167,753</u>
Shareholders' equity		
Preferred stock (no par value; 40,999,000 shares authorized; 1,265 and 21,447,500 shares issued and outstanding at June 30, 2016 and December 31, 2015, respectively).....	1,265	1,265
Common shareholder's equity:		
Common stock (\$5 par; 150,000,000 shares authorized; 714 shares issued and outstanding at both June 30, 2016 and December 31, 2015).....	—	—
Additional paid-in capital.....	18,169	18,169
Retained earnings.....	1,603	1,498
Accumulated other comprehensive income (loss).....	23	(407)
Total common shareholder's equity.....	<u>19,795</u>	<u>19,260</u>
Total shareholders' equity.....	<u>21,060</u>	<u>20,525</u>
Total liabilities and shareholders' equity.....	<u>\$ 210,873</u>	<u>\$ 188,278</u>

⁽¹⁾ The following table summarizes assets and liabilities related to our consolidated variable interest entities ("VIEs") at June 30, 2016 and December 31, 2015 which are consolidated on our balance sheet. Assets and liabilities exclude intercompany balances that eliminate in consolidation. See Note 17, "Variable Interest Entities," for additional information.

	June 30, 2016	December 31, 2015
(in millions)		
<i>Assets</i>		
Other assets	\$ 280	\$ 320
Total assets	<u>\$ 280</u>	<u>\$ 320</u>
<i>Liabilities</i>		
Long-term debt	\$ 92	\$ 92
Interest, taxes and other liabilities	68	68
Total liabilities	<u>\$ 160</u>	<u>\$ 160</u>

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

CONSOLIDATED STATEMENT OF CHANGES IN SHAREHOLDERS' EQUITY (UNAUDITED)

Six Months Ended June 30,	2016	2015
	(in millions)	
Preferred stock		
Balance at beginning of period	\$ 1,265	\$ 1,565
Preferred stock issuance	1,265	—
Preferred stock redemption	(1,265)	(300)
Balance at end of period	<u>1,265</u>	<u>1,265</u>
Common stock		
Balance at beginning and end of period	—	—
Additional paid-in capital		
Balance at beginning of period	18,169	14,170
Capital contribution from parent	—	4,000
Employee benefit plans	—	(1)
Balance at end of period	<u>18,169</u>	<u>18,169</u>
Retained earnings		
Balance at beginning of period	1,498	1,233
Net income	133	251
Cash dividends declared on preferred stock	(28)	(36)
Balance at end of period	<u>1,603</u>	<u>1,448</u>
Accumulated other comprehensive income (loss)		
Balance at beginning of period	(407)	(1)
Other comprehensive income (loss), net of tax	430	(228)
Balance at end of period	<u>23</u>	<u>(229)</u>
Total common shareholder's equity	<u>19,795</u>	<u>19,388</u>
Total shareholders' equity	<u>\$ 21,060</u>	<u>\$ 20,653</u>

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

CONSOLIDATED STATEMENT OF CASH FLOWS (UNAUDITED)

Six Months Ended June 30,	2016	2015
	(in millions)	
<i>Cash flows from operating activities</i>		
Net income.....	\$ 133	\$ 251
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	(15)	77
Provision for credit losses	291	47
Net realized gains on securities available-for-sale.....	(65)	(58)
Net change in other assets and liabilities	(1,800)	(564)
Net change in loans held for sale:		
Originations and purchases of loans held for sale	(974)	(1,341)
Sales and collections of loans held for sale	1,069	1,276
Net change in trading assets and liabilities	1,510	1,605
Lower of amortized cost or fair value adjustments on loans held for sale.....	71	9
Gain on instruments designated at fair value and related derivatives	(178)	(141)
Net cash provided by operating activities	<u>42</u>	<u>1,161</u>
<i>Cash flows from investing activities</i>		
Net change in interest bearing deposits with banks.....	(6,321)	10,748
Net change in federal funds sold and securities purchased under agreements to resell.....	(14,814)	(14,699)
Securities available-for-sale:		
Purchases of securities available-for-sale	(14,192)	(13,190)
Proceeds from sales of securities available-for-sale	12,671	8,692
Proceeds from maturities of securities available-for-sale	764	995
Securities held-to-maturity:		
Purchases of securities held-to-maturity	(327)	(1,995)
Proceeds from maturities of securities held-to-maturity	1,115	1,288
Change in loans:		
Originations, net of collections	2,167	(5,943)
Loans sold to third parties	1,448	130
Net cash used for acquisitions of properties and equipment	(11)	(25)
Other, net	(62)	(387)
Net cash used in investing activities.....	<u>(17,562)</u>	<u>(14,386)</u>
<i>Cash flows from financing activities</i>		
Net change in deposits.....	14,018	6,428
Debt:		
Net change in short-term borrowings.....	2,382	(69)
Issuance of long-term debt	2,559	12,128
Repayment of long-term debt.....	(1,464)	(8,739)
Preferred stock issuance	1,265	—
Preferred stock redemption.....	(1,265)	(300)
Capital contribution from parent	—	4,000
Other increases (decreases) in capital surplus	—	(1)
Dividends paid.....	(28)	(36)
Net cash provided by financing activities	<u>17,467</u>	<u>13,411</u>
Net change in cash and due from banks	(53)	186
Cash and due from banks at beginning of period	968	891
<i>Cash and due from banks at end of period</i>	<u>\$ 915</u>	<u>\$ 1,077</u>

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

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)

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I. Organization and Presentation

HSBC USA Inc. ("HSBC USA"), incorporated under the laws of Maryland, is a New York State based bank holding company and an indirect 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 presentation 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, 2015 (the "2015 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. Trading Assets and Liabilities

Trading assets and liabilities consisted of the following:

	June 30, 2016	December 31, 2015
(in millions)		
Trading assets:		
U.S. Treasury	\$ 3,471	\$ 3,088
U.S. Government agency issued or guaranteed	12	13
U.S. Government sponsored enterprises ⁽¹⁾	158	154
Obligations of U.S. states and political subdivisions	—	559
Asset-backed securities.....	385	424
Corporate and foreign bonds	6,876	6,899
Other securities	14	18
Precious metals	3,073	780
Derivatives, net	4,823	5,150
Total trading assets.....	<u>\$ 18,812</u>	<u>\$ 17,085</u>
Trading liabilities:		
Securities sold, not yet purchased.....	\$ 929	\$ 399
Payables for precious metals	890	650
Derivatives, net	8,873	6,406
Total trading liabilities	<u>\$ 10,692</u>	<u>\$ 7,455</u>

⁽¹⁾ Consists of mortgage backed securities of \$151 million and \$154 million issued or guaranteed by the Federal National Mortgage Association ("FNMA") at June 30, 2016 and December 31, 2015, respectively, and \$7 million issued or guaranteed by the Federal Home Loan Mortgage Corporation ("FHLMC") at June 30, 2016.

At June 30, 2016 and December 31, 2015, the fair value of derivatives included in trading assets is net of \$4,398 million and \$4,652 million, respectively, relating to amounts recognized for the obligation to return cash collateral received under master netting agreements with derivative counterparties.

At June 30, 2016 and December 31, 2015, the fair value of derivatives included in trading liabilities is net of \$1,383 million and \$1,530 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.

3. Securities

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

June 30, 2016	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
(in millions)				
Securities available-for-sale:				
U.S. Treasury	\$ 19,987	\$ 498	\$ (162)	\$ 20,323
U.S. Government sponsored enterprises: ⁽¹⁾				
Mortgage-backed securities	2,471	45	—	2,516
Collateralized mortgage obligations	2,286	8	(7)	2,287
Direct agency obligations.....	4,326	172	(19)	4,479
U.S. Government agency issued or guaranteed:				
Mortgage-backed securities	6,107	48	(6)	6,149
Collateralized mortgage obligations	1,393	30	(2)	1,421
Obligations of U.S. states and political subdivisions.....	13	—	—	13
Asset-backed securities collateralized by:				
Commercial mortgages	6	—	—	6
Home equity	77	—	(10)	67
Other.....	517	1	(25)	493
Foreign debt securities ⁽²⁾	512	1	(2)	511
Equity securities.....	159	—	—	159
Total available-for-sale securities.....	<u>\$ 37,854</u>	<u>\$ 803</u>	<u>\$ (233)</u>	<u>\$ 38,424</u>
Securities held-to-maturity:				
U.S. Government sponsored enterprises: ⁽³⁾				
Mortgage-backed securities	\$ 2,741	\$ 83	\$ —	\$ 2,824
Collateralized mortgage obligations	1,593	98	—	1,691
U.S. Government agency issued or guaranteed:				
Mortgage-backed securities	2,956	74	—	3,030
Collateralized mortgage obligations	5,902	130	(1)	6,031
Obligations of U.S. states and political subdivisions.....	17	1	—	18
Asset-backed securities collateralized by residential mortgages	6	1	—	7
Total held-to-maturity securities.....	<u>\$ 13,215</u>	<u>\$ 387</u>	<u>\$ (1)</u>	<u>\$ 13,601</u>

December 31, 2015	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
	(in millions)			
Securities available-for-sale:				
U.S. Treasury	\$ 17,026	\$ 142	\$ (270)	\$ 16,898
U.S. Government sponsored enterprises: ⁽¹⁾				
Mortgage-backed securities	1,451	2	(12)	1,441
Collateralized mortgage obligations	159	—	(5)	154
Direct agency obligations	4,136	133	(26)	4,243
U.S. Government agency issued or guaranteed:				
Mortgage-backed securities	10,645	9	(145)	10,509
Collateralized mortgage obligations	1,293	11	(4)	1,300
Obligations of U.S. states and political subdivisions	340	8	—	348
Asset-backed securities collateralized by:				
Commercial mortgages	9	—	—	9
Home equity	83	—	(8)	75
Other	110	—	(21)	89
Foreign debt securities ⁽²⁾	548	—	(2)	546
Equity securities	161	3	(3)	161
Total available-for-sale securities	<u>\$ 35,961</u>	<u>\$ 308</u>	<u>\$ (496)</u>	<u>\$ 35,773</u>
Securities held-to-maturity:				
U.S. Government sponsored enterprises: ⁽³⁾				
Mortgage-backed securities	\$ 2,945	\$ 20	\$ (9)	\$ 2,956
Collateralized mortgage obligations	1,755	73	(5)	1,823
U.S. Government agency issued or guaranteed:				
Mortgage-backed securities	3,269	19	(11)	3,277
Collateralized mortgage obligations	6,029	63	(11)	6,081
Obligations of U.S. states and political subdivisions	19	1	—	20
Asset-backed securities collateralized by residential mortgages.....	7	1	—	8
Total held-to-maturity securities	<u>\$ 14,024</u>	<u>\$ 177</u>	<u>\$ (36)</u>	<u>\$ 14,165</u>

⁽¹⁾ Includes securities at amortized cost of \$3,127 million and \$1,577 million issued or guaranteed by FNMA at June 30, 2016 and December 31, 2015, respectively, and \$1,630 million and \$33 million issued or guaranteed by FHLMC at June 30, 2016 and December 31, 2015, respectively.

⁽²⁾ Foreign debt securities represent public sector entity, bank or corporate debt.

⁽³⁾ Includes securities at amortized cost of \$2,948 million and \$3,182 million issued or guaranteed by FNMA at June 30, 2016 and December 31, 2015, respectively, and \$1,386 million and \$1,518 million issued and guaranteed by FHLMC at June 30, 2016 and December 31, 2015, respectively.

Net unrealized gains increased within the available-for-sale portfolio in the six months ended June 30, 2016 due primarily to decreasing yields on U.S. Treasury and U.S. Government agency mortgage-backed securities.

The following table summarizes gross unrealized losses and related fair values at June 30, 2016 and December 31, 2015 classified as to the length of time the losses have existed:

June 30, 2016	One Year or Less			Greater Than One Year		
	Number of Securities	Gross Unrealized Losses	Aggregate Fair Value of Investment	Number of Securities	Gross Unrealized Losses	Aggregate Fair Value of Investment
	(dollars are in millions)					
Securities available-for-sale:						
U.S. Treasury	9	\$ (27)	\$ 1,905	24	\$ (135)	\$ 2,707
U.S. Government sponsored enterprises	20	(15)	2,297	18	(11)	248
U.S. Government agency issued or guaranteed	3	(2)	610	3	(6)	94
Obligations of U.S. states and political subdivisions	3	—	13	—	—	—
Asset-backed securities	—	—	—	8	(35)	159
Foreign debt securities	1	—	45	1	(2)	186
Equity securities	1	—	159	—	—	—
Securities available-for-sale	<u>37</u>	<u>\$ (44)</u>	<u>\$ 5,029</u>	<u>54</u>	<u>\$ (189)</u>	<u>\$ 3,394</u>
Securities held-to-maturity:						
U.S. Government sponsored enterprises	13	\$ —	\$ 4	47	\$ —	\$ 21
U.S. Government agency issued or guaranteed	95	(1)	531	560	—	51
Obligations of U.S. states and political subdivisions	—	—	—	3	—	1
Securities held-to-maturity	<u>108</u>	<u>\$ (1)</u>	<u>\$ 535</u>	<u>610</u>	<u>\$ —</u>	<u>\$ 73</u>

December 31, 2015	One Year or Less			Greater Than One Year		
	Number of Securities	Gross Unrealized Losses	Aggregate Fair Value of Investment	Number of Securities	Gross Unrealized Losses	Aggregate Fair Value of Investment
	(dollars are in millions)					
Securities available-for-sale:						
U.S. Treasury	52	\$ (227)	\$ 11,046	5	\$ (43)	\$ 924
U.S. Government sponsored enterprises	164	(30)	1,451	19	(13)	282
U.S. Government agency issued or guaranteed	62	(141)	9,725	3	(8)	101
Obligations of U.S. states and political subdivisions	4	—	16	3	—	45
Asset-backed securities	1	—	9	8	(29)	164
Foreign debt securities	3	(2)	351	—	—	—
Equity securities	1	(3)	156	—	—	—
Securities available-for-sale	<u>287</u>	<u>\$ (403)</u>	<u>\$ 22,754</u>	<u>38</u>	<u>\$ (93)</u>	<u>\$ 1,516</u>
Securities held-to-maturity:						
U.S. Government sponsored enterprises	312	\$ (14)	\$ 1,143	49	\$ —	\$ —
U.S. Government agency issued or guaranteed	145	(22)	3,303	657	—	20
Obligations of U.S. states and political subdivisions	1	—	—	3	—	1
Securities held-to-maturity	<u>458</u>	<u>\$ (36)</u>	<u>\$ 4,446</u>	<u>709</u>	<u>\$ —</u>	<u>\$ 21</u>

Although the fair value of a particular security is below its amortized cost, it does not necessarily result in a credit loss and hence an other-than-temporary impairment. The decline in fair value may be caused by, among other things, the illiquidity of the market. We have reviewed the securities for which there is an unrealized loss for other-than-temporary impairment in accordance with our

accounting policies, discussed further below. At June 30, 2016 and December 31, 2015, we do not consider any of our debt securities to be other-than-temporarily impaired 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 securities until their individual maturities. However, other-than-temporary impairments may occur in future periods if the credit quality of the securities deteriorates.

Other-Than-Temporary Impairment On a quarterly basis, we perform an assessment to determine whether there have been any events or economic circumstances to indicate that a security with an unrealized loss has suffered other-than-temporary impairment. A debt security is considered impaired if its fair value is less than its amortized cost at the reporting date. If impaired, we assess whether the impairment is other-than-temporary.

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 considered other-than-temporary and the unrealized loss is recorded in earnings. An impairment is also considered other-than-temporary if a credit loss exists (i.e., the present value of the expected future cash flows is less than the amortized cost basis of the debt security). In the event a credit loss exists, the credit loss component of an other-than-temporary impairment is recorded in earnings while the remaining portion of the impairment loss attributable to factors other than credit loss is recognized, net of tax, in other comprehensive income (loss).

For all securities held in the available-for-sale or held-to-maturity portfolios for which unrealized losses attributed to factors other than credit existed, we do not have the intention to sell and believe we will not be required to sell the securities for contractual, regulatory or liquidity reasons as of the reporting date. For a complete description of the factors considered when analyzing debt securities for impairments, see Note 4, "Securities," in our 2015 Form 10-K. There have been no material changes in our process for assessing impairment during 2016.

During the three and six months ended June 30, 2016 and 2015, none of our debt securities were determined to have either initial other-than-temporary impairment or changes to previous other-than-temporary impairment estimates relating to the credit component, as such, there were no other-than-temporary impairment losses recognized related to credit loss.

Certain asset-backed securities in the available-for-sale portfolio have an embedded financial guarantee provided by monoline insurers. Because the financial guarantee is not a separate and distinct contract from the asset-backed security, they are considered a single unit of account for fair value measurement and impairment assessment purposes. In evaluating the degree of reliance to be placed on the financial guarantee of a monoline insurer when estimating the cash flows to be collected for the purpose of recognizing and measuring impairment loss, consideration is given to our assessment of the creditworthiness of the monoline and other market factors. Based on the information available, including any actions undertaken by the regulatory agencies over the monoline insurers and their published financial results, we perform both a credit as well as a liquidity analysis on the monoline insurers each quarter. Our analysis also includes a review of market-based credit default spreads, when available, to assess the appropriateness of our assessment of the monoline insurer's creditworthiness. A credit downgrade to non-investment grade is key but not the only factor in determining the monoline insurer's ability to fulfill its contractual obligation under the financial guarantee. Although a monoline may have been downgraded by the credit rating agencies or ordered to commute its operations by the insurance commissioners, it may retain the ability and the obligation to continue to pay claims in the near term.

At June 30, 2016, we held 12 individual asset-backed securities in the available-for-sale portfolio, of which 5 were also wrapped by a monoline insurance company. The asset-backed securities backed by a monoline wrap comprised \$159 million of the total aggregate fair value of asset-backed securities of \$566 million at June 30, 2016. The gross unrealized losses on these monoline wrapped securities were \$35 million at June 30, 2016. We did not take into consideration the value of the monoline wrap of any non-investment grade monoline insurers at June 30, 2016 and, therefore, we only considered the financial guarantee of investment grade monoline insurers for purposes of evaluating other-than-temporary impairment on securities with a fair value of \$67 million.

At December 31, 2015, we held 12 individual asset-backed securities in the available-for-sale portfolio, of which 5 were also wrapped by a monoline insurance company. The asset-backed securities backed by a monoline wrap comprised \$164 million of the total aggregate fair value of asset-backed securities of \$173 million at December 31, 2015. The gross unrealized losses on these monoline wrapped securities were \$29 million at December 31, 2015. We did not take into consideration the value of the monoline wrap of any non-investment grade monoline insurers at December 31, 2015 and, therefore, we only considered the financial guarantee of investment grade monoline insurers for purposes of evaluating other-than-temporary impairment on securities with a fair value of \$75 million.

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

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Gross realized gains.....	\$ 56	\$ 43	\$ 87	\$ 73
Gross realized losses.....	(20)	(8)	(22)	(15)
Net realized gains.....	\$ 36	\$ 35	\$ 65	\$ 58

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, 2016 by contractual maturity. Expected maturities differ from contractual maturities because borrowers have the right to prepay obligations without prepayment penalties in certain cases. Securities available-for-sale amounts exclude equity securities as they do not have stated maturities. The table below also reflects the distribution of maturities of debt securities held at June 30, 2016, together with the approximate taxable equivalent 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, 2016. Yields on tax-exempt obligations have been computed on a taxable equivalent basis using applicable statutory tax rates.

Taxable Equivalent Basis	Within One Year		After One But Within Five Years		After Five But Within Ten Years		After Ten Years	
	Amount	Yield	Amount	Yield	Amount	Yield	Amount	Yield
	(dollars are in millions)							
Available-for-sale:								
U.S. Treasury.....	\$ —	—%	\$ 5,525	1.30%	\$ 9,317	2.17%	\$ 5,145	2.59%
U.S. Government sponsored enterprises.....	120	3.23	3,315	2.83	1,105	2.32	4,543	2.06
U.S. Government agency issued or guaranteed.....	—	—	4	3.99	29	3.81	7,467	2.38
Obligations of U.S. states and political subdivisions.....	—	—	13	4.26	—	—	—	—
Asset-backed securities.....	400	1.88	—	—	—	—	200	3.17
Foreign debt securities.....	297	1.23	215	1.07	—	—	—	—
Total amortized cost.....	\$ 817	1.84%	\$ 9,072	1.86%	\$ 10,451	2.19%	\$ 17,355	2.37%
Total fair value.....	\$ 821		\$ 9,319		\$ 10,749		\$ 17,376	
Held-to-maturity:								
U.S. Government sponsored enterprises.....	\$ —	—%	\$ 130	1.61%	\$ 570	2.70%	\$ 3,634	2.92%
U.S. Government agency issued or guaranteed.....	—	—	9	1.55	37	3.21	8,812	2.35
Obligations of U.S. states and political subdivisions.....	3	3.70	5	3.71	5	3.70	4	5.60
Asset-backed securities.....	—	—	—	—	—	—	6	6.60
Total amortized cost.....	\$ 3	3.70%	\$ 144	1.68%	\$ 612	2.74%	\$ 12,456	2.52%
Total fair value.....	\$ 3		\$ 146		\$ 643		\$ 12,809	

Investments in Federal Home Loan Bank stock and Federal Reserve Bank stock of \$383 million and \$632 million, respectively, were included in other assets at June 30, 2016. Investments in Federal Home Loan Bank stock and Federal Reserve Bank stock of \$323 million and \$632 million, respectively, were included in other assets at December 31, 2015.

4. Loans

Loans consisted of the following:

	June 30, 2016	December 31, 2015
(in millions)		
Commercial loans:		
Construction and other real estate	\$ 10,973	\$ 10,000
Business and corporate banking	19,075	19,116
Global banking ⁽¹⁾	26,357	29,969
Other commercial	3,138	3,368
Total commercial	<u>59,543</u>	<u>62,453</u>
Consumer loans:		
Residential mortgages	17,667	17,758
Home equity mortgages	1,511	1,600
Credit cards	668	699
Other consumer	421	407
Total consumer	<u>20,267</u>	<u>20,464</u>
Total loans	<u>\$ 79,810</u>	<u>\$ 82,917</u>

⁽¹⁾ Represents large multinational firms including globally focused U.S. corporate and financial institutions and U.S. dollar lending to multinational banking customers managed by HSBC on a global basis. Also includes loans to HSBC affiliates which totaled \$5,072 million and \$4,815 million at June 30, 2016 and December 31, 2015, respectively. See Note 14, "Related Party Transactions," for additional information regarding loans to HSBC affiliates.

Net deferred origination fees totaled \$57 million and \$62 million at June 30, 2016 and December 31, 2015, respectively. At June 30, 2016 and December 31, 2015, we had a net unamortized premium on our loans of \$15 million and \$16 million, respectively.

Aging Analysis of Past Due Loans The following table summarizes the past due status of our loans, excluding loans held for sale, at June 30, 2016 and December 31, 2015. 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.

At June 30, 2016	Past Due		Total Past Due 30 Days or More	Current ⁽¹⁾	Total Loans
	30 - 89 Days	90+ Days			
(in millions)					
Commercial loans:					
Construction and other real estate.....	\$ 51	\$ 29	\$ 80	\$ 10,893	\$ 10,973
Business and corporate banking	88	3	91	18,984	19,075
Global banking.....	—	—	—	26,357	26,357
Other commercial	5	6	11	3,127	3,138
Total commercial.....	<u>144</u>	<u>38</u>	<u>182</u>	<u>59,361</u>	<u>59,543</u>
Consumer loans:					
Residential mortgages ⁽²⁾	397	377	774	16,893	17,667
Home equity mortgages.....	11	44	55	1,456	1,511
Credit cards.....	8	9	17	651	668
Other consumer.....	6	6	12	409	421
Total consumer.....	<u>422</u>	<u>436</u>	<u>858</u>	<u>19,409</u>	<u>20,267</u>
Total loans	<u>\$ 566</u>	<u>\$ 474</u>	<u>\$ 1,040</u>	<u>\$ 78,770</u>	<u>\$ 79,810</u>

At December 31, 2015	Past Due		Total Past Due 30 Days or More	Current ⁽¹⁾	Total Loans
	30 - 89 Days	90+ Days			
(in millions)					
Commercial loans:					
Construction and other real estate.....	\$ 31	\$ 33	\$ 64	\$ 9,936	\$ 10,000
Business and corporate banking	36	25	61	19,055	19,116
Global banking.....	—	—	—	29,969	29,969
Other commercial	—	6	6	3,362	3,368
Total commercial.....	<u>67</u>	<u>64</u>	<u>131</u>	<u>62,322</u>	<u>62,453</u>
Consumer loans:					
Residential mortgages.....	397	781	1,178	16,580	17,758
Home equity mortgages.....	15	50	65	1,535	1,600
Credit cards.....	10	9	19	680	699
Other consumer.....	7	7	14	393	407
Total consumer.....	<u>429</u>	<u>847</u>	<u>1,276</u>	<u>19,188</u>	<u>20,464</u>
Total loans	<u>\$ 496</u>	<u>\$ 911</u>	<u>\$ 1,407</u>	<u>\$ 81,510</u>	<u>\$ 82,917</u>

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

⁽²⁾ The decrease in past due loans at June 30, 2016 reflects the impact of the transfer of certain residential mortgage loans with a carrying value of \$369 million to held for sale during the first half of 2016. See Note 6, "Loans Held for Sale," for additional details.

Nonaccrual Loans Nonaccrual loans, including nonaccrual loans held for sale, and accruing loans 90 days or more delinquent consisted of the following:

	June 30, 2016	December 31, 2015
(in millions)		
Nonaccrual loans:		
Commercial:		
Construction and other real estate	\$ 47	\$ 53
Business and corporate banking	238	167
Global banking	643	44
Other commercial	1	1
Commercial nonaccrual loans held for sale	57	26
Total commercial	<u>986</u>	<u>291</u>
Consumer:		
Residential mortgages ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾	437	814
Home equity mortgages ⁽¹⁾⁽²⁾	73	71
Consumer nonaccrual loans held for sale ⁽⁴⁾	376	3
Total consumer	<u>886</u>	<u>888</u>
Total nonaccruing loans	<u>1,872</u>	<u>1,179</u>
Accruing loans contractually past due 90 days or more:		
Commercial:		
Business and corporate banking	1	1
Total commercial	<u>1</u>	<u>1</u>
Consumer:		
Credit cards	9	9
Other consumer	7	7
Total consumer	<u>16</u>	<u>16</u>
Total accruing loans contractually past due 90 days or more	<u>17</u>	<u>17</u>
Total nonperforming loans	<u>\$ 1,889</u>	<u>\$ 1,196</u>

⁽¹⁾ At June 30, 2016 and December 31, 2015, nonaccrual consumer mortgage loans held for investment include \$428 million and \$768 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less cost to sell.

⁽²⁾ Nonaccrual 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.

⁽³⁾ Nonaccrual consumer mortgage loans for all periods does not include guaranteed loans purchased from the Government National Mortgage Association. Repayment of these loans are 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⁾ The trend in nonaccrual loans reflects the impact of the transfer of certain residential mortgage loans with a carrying value of \$369 million to held for sale during the first half of 2016.

The following table provides additional information on our nonaccrual loans:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
(in millions)				
Interest income that would have been recorded if the nonaccrual loans had been current in accordance with contractual terms during the period	\$ 19	\$ 23	\$ 40	\$ 44
Interest income that was recorded on nonaccrual loans and included in interest income during the period	3	6	9	12

Impaired Loans A loan is considered to be impaired when it is deemed probable that not all principal and interest amounts due according to the contractual terms of the loan agreement will be collected. Probable losses from impaired loans are quantified and recorded as a component of the overall allowance for credit losses. Commercial and consumer loans for which we have modified the loan terms as part of a troubled debt restructuring are considered to be impaired loans. Additionally, commercial loans in nonaccrual status, or that have been partially charged-off or assigned a specific allowance for credit losses are also considered impaired loans.

Troubled debt restructurings 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 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. TDR Loans are reserved for either based on the present value of expected future cash flows discounted at the loans' original effective interest rates which generally results in a higher reserve requirement for these loans or in the case of certain secured loans, the estimated fair value of the underlying collateral. 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 such terms reflect current market rates at the time of restructure, they will no longer be reported as a TDR Loan beginning in the year after restructuring. During the three and six months ended June 30, 2016 and 2015 there were no commercial loans that met this criteria and were removed from TDR Loan classification.

The following table presents information about loans which were modified during the three and six months ended June 30, 2016 and 2015 and as a result of this action became classified as TDR Loans:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Commercial loans:				
Construction and other real estate	\$ —	\$ 4	\$ —	\$ 4
Business and corporate banking	190	24	304	50
Global banking	—	—	—	13
Total commercial	190	28	304	67
Consumer loans:				
Residential mortgages	16	35	43	70
Home equity mortgages	3	1	5	1
Credit cards	1	1	2	2
Total consumer	20	37	50	73
Total	\$ 210	\$ 65	\$ 354	\$ 140

The weighted-average contractual rate reduction for consumer loans which became classified as TDR Loans during the three and six months ended June 30, 2016 was 1.54 percent and 1.68 percent, respectively, compared with 1.90 percent and 1.84 percent during the three and six months ended June 30, 2015, 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 information about our TDR Loans and the related allowance for credit losses for TDR Loans:

	June 30, 2016		December 31, 2015	
	Carrying Value	Unpaid Principal Balance	Carrying Value	Unpaid Principal Balance
	(in millions)			
TDR Loans ⁽¹⁾⁽²⁾ :				
Commercial loans:				
Construction and other real estate.....	\$ 82	\$ 94	\$ 94	\$ 106
Business and corporate banking	449	470	227	240
Global banking.....	65	66	44	44
Total commercial ⁽³⁾	<u>596</u>	<u>630</u>	<u>365</u>	<u>390</u>
Consumer loans:				
Residential mortgages ⁽⁴⁾⁽⁵⁾	928	1,044	1,060	1,233
Home equity mortgages ⁽⁴⁾	27	59	23	50
Credit cards	5	5	5	5
Total consumer.....	<u>960</u>	<u>1,108</u>	<u>1,088</u>	<u>1,288</u>
Total TDR Loans ⁽⁶⁾	<u>\$ 1,556</u>	<u>\$ 1,738</u>	<u>\$ 1,453</u>	<u>\$ 1,678</u>
Allowance for credit losses for TDR Loans ⁽⁷⁾ :				
Commercial loans:				
Construction and other real estate.....	\$ —		\$ —	
Business and corporate banking	84		24	
Global banking.....	—		—	
Total commercial.....	<u>84</u>		<u>24</u>	
Consumer loans:				
Residential mortgages.....	28		33	
Home equity mortgages	1		1	
Credit cards	1		1	
Total consumer.....	<u>30</u>		<u>35</u>	
Total allowance for credit losses for TDR Loans	<u>\$ 114</u>		<u>\$ 59</u>	

(1) TDR Loans are considered to be impaired loans. For consumer loans, all such loans are considered impaired loans regardless of accrual status. For commercial loans, impaired loans include other loans in addition to TDR Loans which totaled \$654 million and \$88 million at June 30, 2016 and December 31, 2015, respectively.

(2) The carrying value of TDR Loans includes basis adjustments on the loans, such as unearned income, unamortized deferred fees and costs on originated loans, partial charge-offs and premiums or discounts on purchased loans.

(3) Additional commitments to lend to commercial borrowers whose loans have been modified in TDRs totaled \$221 million and \$112 million at June 30, 2016 and December 31, 2015, respectively.

(4) At June 30, 2016 and December 31, 2015, the carrying value of consumer mortgage TDR Loans held for investment includes \$763 million and \$881 million, respectively, of loans that are recorded at the lower of amortized cost or fair value of the collateral less cost to sell.

(5) The decrease in TDR Loans at June 30, 2016 reflects the impact of the transfer of certain residential mortgage TDR Loans with a carrying value of \$141 million to held for sale during the first half of 2016. There is no allowance for credit losses associated with loans classified as held for sale as they are carried at the lower of amortized cost or fair value less cost to sell.

(6) At June 30, 2016 and December 31, 2015, the carrying value of TDR Loans includes \$660 million and \$676 million, respectively, of loans which are classified as nonaccrual.

(7) Included in the allowance for credit losses.

The following table presents information about average TDR Loans and interest income recognized on TDR Loans:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
(in millions)				
Average balance of TDR Loans:				
Commercial loans:				
Construction and other real estate	\$ 87	\$ 149	\$ 89	\$ 161
Business and corporate banking	371	56	323	45
Global banking	62	13	56	9
Total commercial.....	<u>520</u>	<u>218</u>	<u>468</u>	<u>215</u>
Consumer loans:				
Residential mortgages	934	999	990	988
Home equity mortgages	25	20	24	20
Credit cards	5	6	5	6
Total consumer	<u>964</u>	<u>1,025</u>	<u>1,019</u>	<u>1,014</u>
Total average balance of TDR Loans.....	<u>\$ 1,484</u>	<u>\$ 1,243</u>	<u>\$ 1,487</u>	<u>\$ 1,229</u>
Interest income recognized on TDR Loans:				
Commercial loans:				
Construction and other real estate	\$ —	\$ 1	\$ 1	\$ 2
Business and corporate banking	3	—	4	1
Total commercial.....	<u>3</u>	<u>1</u>	<u>5</u>	<u>3</u>
Consumer loans:				
Residential mortgages	9	9	19	18
Home equity mortgages	1	1	1	1
Total consumer	<u>10</u>	<u>10</u>	<u>20</u>	<u>19</u>
Total interest income recognized on TDR Loans.....	<u>\$ 13</u>	<u>\$ 11</u>	<u>\$ 25</u>	<u>\$ 22</u>

The following table presents loans which were classified as TDR Loans during the previous 12 months which for commercial loans became 90 days or greater contractually delinquent or for consumer loans became 60 days or greater contractually delinquent during the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
(in millions)				
Commercial loans:				
Construction and other real estate	\$ —	\$ —	\$ —	\$ 2
Business and corporate banking	2	2	4	3
Total commercial.....	<u>2</u>	<u>2</u>	<u>4</u>	<u>5</u>
Consumer loans:				
Residential mortgages	4	8	15	17
Total consumer.....	<u>4</u>	<u>8</u>	<u>15</u>	<u>17</u>
Total	<u>\$ 6</u>	<u>\$ 10</u>	<u>\$ 19</u>	<u>\$ 22</u>

Impaired commercial loans The following table presents information about impaired commercial loans and the related impairment reserve for impaired commercial loans:

	Amount with Impairment Reserves ⁽¹⁾	Amount without Impairment Reserves ⁽¹⁾	Total Impaired Commercial Loans ⁽¹⁾⁽²⁾	Impairment Reserve	Unpaid Principal Balance
	(in millions)				
At June 30, 2016					
Construction and other real estate	\$ 6	\$ 92	\$ 98	\$ 2	\$ 110
Business and corporate banking	267	234	501	103	519
Global banking	578	65	643	247	652
Other commercial	1	7	8	1	8
Total commercial.....	<u>\$ 852</u>	<u>\$ 398</u>	<u>\$ 1,250</u>	<u>\$ 353</u>	<u>\$ 1,289</u>
At December 31, 2015					
Construction and other real estate	\$ 2	\$ 108	\$ 110	\$ 1	\$ 125
Business and corporate banking	168	124	292	52	342
Global banking	—	44	44	—	44
Other commercial	1	6	7	1	8
Total commercial.....	<u>\$ 171</u>	<u>\$ 282</u>	<u>\$ 453</u>	<u>\$ 54</u>	<u>\$ 519</u>

⁽¹⁾ Reflects the carrying value of impaired commercial loans and includes basis adjustments on the loans, such as partial charge-offs, unamortized deferred fees and costs on originated loans and any premiums or discounts on purchased loans.

⁽²⁾ Includes impaired commercial loans that are also considered TDR Loans which totaled \$596 million and \$365 million at June 30, 2016 and December 31, 2015, respectively.

The following table presents information about average impaired commercial loans and interest income recognized on impaired commercial loans:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
<i>Average balance of impaired commercial loans:</i>				
Construction and other real estate	\$ 101	\$ 166	\$ 104	\$ 176
Business and corporate banking	427	92	382	91
Global banking	296	13	212	9
Other commercial	8	7	7	7
Total average balance of impaired commercial loans.....	<u>\$ 832</u>	<u>\$ 278</u>	<u>\$ 705</u>	<u>\$ 283</u>
<i>Interest income recognized on impaired commercial loans:</i>				
Construction and other real estate	\$ —	\$ 1	\$ 1	\$ 2
Business and corporate banking	3	—	5	1
Global banking	2	—	2	—
Total interest income recognized on impaired commercial loans.....	<u>\$ 5</u>	<u>\$ 1</u>	<u>\$ 8</u>	<u>\$ 3</u>

Commercial Loan Credit Quality Indicators The following credit quality indicators are monitored for 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. These criticized facility grades, however, are not used for determining our allowance for credit losses. Under our methodology for determining the allowance for credit losses, loans are assigned obligor grades which reflect our internal assessment of the credit risk of the loans. While the regulatory criticized facility grades are directionally aligned with our internal obligor grades, each changes based on its respective underlying criteria. As a result, changes in regulatory classifications will not necessarily result in corresponding changes to our allowance for credit losses. 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 nonaccruing status.

The following table summarizes criticized commercial loans:

	Special Mention	Substandard	Doubtful	Total
	(in millions)			
At June 30, 2016				
Construction and other real estate.....	\$ 286	\$ 192	\$ 4	\$ 482
Business and corporate banking.....	782	752	102	1,636
Global banking.....	1,085	3,053	415	4,553
Other commercial.....	—	7	1	8
Total commercial	<u>\$ 2,153</u>	<u>\$ 4,004</u>	<u>\$ 522</u>	<u>\$ 6,679</u>
At December 31, 2015				
Construction and other real estate.....	\$ 239	\$ 187	\$ —	\$ 426
Business and corporate banking.....	941	690	52	1,683
Global banking.....	1,069	2,300	12	3,381
Other commercial.....	1	37	1	39
Total commercial	<u>\$ 2,250</u>	<u>\$ 3,214</u>	<u>\$ 65</u>	<u>\$ 5,529</u>

The increase in criticized commercial loans at June 30, 2016 was driven by downgrades, predominantly emerging markets related.

Nonperforming The following table summarizes the status of our commercial loan portfolio, excluding loans held for sale:

	Performing Loans	Nonaccrual Loans	Accruing Loans Contractually Past Due 90 days or More	Total
(in millions)				
At June 30, 2016				
Construction and other real estate	\$ 10,926	\$ 47	\$ —	\$ 10,973
Business and corporate banking	18,836	238	1	19,075
Global banking	25,714	643	—	26,357
Other commercial	3,137	1	—	3,138
Total commercial.....	<u>\$ 58,613</u>	<u>\$ 929</u>	<u>\$ 1</u>	<u>\$ 59,543</u>
At December 31, 2015				
Construction and other real estate	\$ 9,947	\$ 53	\$ —	\$ 10,000
Business and corporate banking	18,948	167	1	19,116
Global banking	29,925	44	—	29,969
Other commercial	3,367	1	—	3,368
Total commercial.....	<u>\$ 62,187</u>	<u>\$ 265</u>	<u>\$ 1</u>	<u>\$ 62,453</u>

Credit risk profile The following table shows the credit risk profile of our commercial loan portfolio:

	Investment Grade ⁽¹⁾	Non- Investment Grade	Total
(in millions)			
At June 30, 2016			
Construction and other real estate	\$ 8,564	\$ 2,409	\$ 10,973
Business and corporate banking	9,801	9,274	19,075
Global banking	18,209	8,148	26,357
Other commercial	1,781	1,357	3,138
Total commercial.....	<u>\$ 38,355</u>	<u>\$ 21,188</u>	<u>\$ 59,543</u>
At December 31, 2015			
Construction and other real estate	\$ 8,487	\$ 1,513	\$ 10,000
Business and corporate banking	10,373	8,743	19,116
Global banking	23,111	6,858	29,969
Other commercial	1,883	1,485	3,368
Total commercial.....	<u>\$ 43,854</u>	<u>\$ 18,599</u>	<u>\$ 62,453</u>

⁽¹⁾ Investment grade includes commercial loans with credit ratings of at least BBB- or above or the equivalent based on our internal credit rating system.

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

Delinquency The following table summarizes dollars of two-months-and-over contractual delinquency and as a percent of total loans and loans held for sale ("delinquency ratio") for our consumer loan portfolio:

	June 30, 2016		December 31, 2015	
	Delinquent Loans	Delinquency Ratio	Delinquent Loans	Delinquency Ratio
(dollars are in millions)				
Residential mortgages ⁽¹⁾⁽²⁾	\$ 801	4.44%	\$ 858	4.83%
Home equity mortgages ⁽¹⁾⁽²⁾	49	3.24	56	3.50
Credit cards	12	1.80	13	1.86
Other consumer	9	1.81	11	2.26
Total consumer	<u>\$ 871</u>	<u>4.20%</u>	<u>\$ 938</u>	<u>4.56%</u>

⁽¹⁾ At June 30, 2016 and December 31, 2015, consumer mortgage loan delinquency includes \$735 million and \$793 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less cost to sell, including \$361 million and \$3 million, respectively, relating to loans held for sale.

⁽²⁾ At June 30, 2016 and December 31, 2015, consumer mortgage loans and loans held for sale include \$523 million and \$567 million, respectively, of loans that were in the process of foreclosure.

Nonperforming The following table summarizes the status of our consumer loan portfolio, excluding loans held for sale:

	Performing Loans	Nonaccrual Loans	Accruing Loans Contractually Past Due 90 days or More	Total
	(in millions)			
At June 30, 2016				
Residential mortgages ⁽¹⁾	\$ 17,230	\$ 437	\$ —	\$ 17,667
Home equity mortgages	1,438	73	—	1,511
Credit cards	659	—	9	668
Other consumer	414	—	7	421
Total consumer	<u>\$ 19,741</u>	<u>\$ 510</u>	<u>\$ 16</u>	<u>\$ 20,267</u>
At December 31, 2015				
Residential mortgages	\$ 16,944	\$ 814	\$ —	\$ 17,758
Home equity mortgages	1,529	71	—	1,600
Credit cards	690	—	9	699
Other consumer	400	—	7	407
Total consumer	<u>\$ 19,563</u>	<u>\$ 885</u>	<u>\$ 16</u>	<u>\$ 20,464</u>

⁽¹⁾ The decrease in nonaccrual loans at June 30, 2016 reflects the impact of the transfer of certain residential mortgage loans with a carrying value of \$369 million to held for sale during the first half of 2016.

Troubled debt restructurings See discussion of impaired loans above for further details on this credit quality indicator.

Concentration of Credit Risk At June 30, 2016 and December 31, 2015, our loan portfolios included interest-only residential mortgage loans totaling \$3,669 million and \$3,645 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.

5. Allowance for Credit Losses

The following table summarizes the changes in the allowance for credit losses by product and the related loan balance by product during the three and six months ended June 30, 2016 and 2015:

	Commercial				Consumer				Total
	Construction and Other Real Estate	Business and Corporate Banking	Global Banking	Other Comm'l	Residential Mortgages	Home Equity Mortgages	Credit Card	Other Consumer	
(in millions)									
Three Months Ended June 30, 2016									
Allowance for credit losses – beginning of period.....	\$ 95	\$ 362	\$ 429	\$ 16	\$ 55	\$ 25	\$ 31	\$ 10	\$ 1,023
Provision charged (credited) to income	(3)	4	137	(1)	(7)	(6)	9	1	134
Charge offs.....	—	(11)	(78)	—	—	(2)	(8)	(4)	(103)
Recoveries.....	—	3	—	—	2	2	1	1	9
Net (charge offs) recoveries.....	—	(8)	(78)	—	2	—	(7)	(3)	(94)
Allowance for credit losses – end of period..	\$ 92	\$ 358	\$ 488	\$ 15	\$ 50	\$ 19	\$ 33	\$ 8	\$ 1,063
Three Months Ended June 30, 2015									
Allowance for credit losses – beginning of period	\$ 90	\$ 295	\$ 128	\$ 21	\$ 95	\$ 29	\$ 35	\$ 10	\$ 703
Provision charged (credited) to income	(3)	(2)	2	(3)	(6)	—	4	2	(6)
Charge offs.....	(1)	(38)	—	—	(10)	(3)	(8)	(4)	(64)
Recoveries.....	3	5	—	—	4	1	2	—	15
Net (charge offs) recoveries.....	2	(33)	—	—	(6)	(2)	(6)	(4)	(49)
Allowance for credit losses – end of period..	\$ 89	\$ 260	\$ 130	\$ 18	\$ 83	\$ 27	\$ 33	\$ 8	\$ 648
Six Months Ended June 30, 2016									
Allowance for credit losses – beginning of period.....	\$ 86	\$ 434	\$ 240	\$ 19	\$ 68	\$ 24	\$ 32	\$ 9	\$ 912
Provision charged (credited) to income	6	(42)	333	(4)	(16)	(3)	14	3	291
Charge-offs.....	—	(39)	(85)	—	(9)	(5)	(16)	(5)	(159)
Recoveries.....	—	5	—	—	7	3	3	1	19
Net (charge-offs) recoveries.....	—	(34)	(85)	—	(2)	(2)	(13)	(4)	(140)
Allowance for credit losses – end of period..	\$ 92	\$ 358	\$ 488	\$ 15	\$ 50	\$ 19	\$ 33	\$ 8	\$ 1,063
Ending balance: collectively evaluated for impairment.....	\$ 90	\$ 255	\$ 241	\$ 14	\$ 22	\$ 18	\$ 32	\$ 8	\$ 680
Ending balance: individually evaluated for impairment.....	2	103	247	1	28	1	1	—	383
Total allowance for credit losses.....	\$ 92	\$ 358	\$ 488	\$ 15	\$ 50	\$ 19	\$ 33	\$ 8	\$ 1,063
Loans:									
Collectively evaluated for impairment ⁽¹⁾	\$ 10,875	\$ 18,574	\$ 25,714	\$ 3,130	\$ 16,423	\$ 1,433	\$ 663	\$ 421	\$ 77,233
Individually evaluated for impairment ⁽²⁾	98	501	643	8	188	5	5	—	1,448
Loans carried at lower of amortized cost or fair value less cost to sell.....	—	—	—	—	1,056	73	—	—	1,129
Total loans.....	\$ 10,973	\$ 19,075	\$ 26,357	\$ 3,138	\$ 17,667	\$ 1,511	\$ 668	\$ 421	\$ 79,810

	Commercial				Consumer				Total
	Construction and Other Real Estate	Business and Corporate Banking	Global Banking	Other Comm'l	Residential Mortgages	Home Equity Mortgages	Credit Card	Other Consumer	
(in millions)									
Six Months Ended June 30, 2015									
Allowance for credit losses – beginning of period.....	\$ 89	\$ 275	\$ 107	\$ 21	\$ 107	\$ 32	\$ 39	\$ 10	\$ 680
Provision charged (credited) to income	(1)	22	23	(2)	(6)	(2)	7	6	47
Charge-offs.....	(2)	(44)	—	(1)	(24)	(5)	(16)	(10)	(102)
Recoveries.....	3	7	—	—	6	2	3	2	23
Net (charge-offs) recoveries.....	1	(37)	—	(1)	(18)	(3)	(13)	(8)	(79)
Allowance for credit losses – end of period..	\$ 89	\$ 260	\$ 130	\$ 18	\$ 83	\$ 27	\$ 33	\$ 8	\$ 648
Ending balance: collectively evaluated for impairment.....	\$ 86	\$ 257	\$ 130	\$ 17	\$ 42	\$ 26	\$ 32	\$ 8	\$ 598
Ending balance: individually evaluated for impairment.....	3	3	—	1	41	1	1	—	50
Total allowance for credit losses.....	\$ 89	\$ 260	\$ 130	\$ 18	\$ 83	\$ 27	\$ 33	\$ 8	\$ 648
Loans:									
Collectively evaluated for impairment ⁽¹⁾	\$ 11,388	\$ 19,624	\$ 28,929	\$ 3,415	\$ 15,478	\$ 1,610	\$ 686	\$ 410	\$ 81,540
Individually evaluated for impairment ⁽²⁾	132	88	13	7	262	5	6	—	513
Loans carried at lower of amortized cost or fair value less cost to sell.....	—	—	—	—	1,493	71	—	—	1,564
Total loans.....	\$ 11,520	\$ 19,712	\$ 28,942	\$ 3,422	\$ 17,233	\$ 1,686	\$ 692	\$ 410	\$ 83,617

⁽¹⁾ Global Banking includes loans to HSBC affiliates totaling \$5,072 million and \$4,607 million at June 30, 2016 and 2015, respectively, for which we do not carry an associated allowance for credit losses.

⁽²⁾ For consumer loans and certain small business loans, these amounts represent TDR Loans for which we evaluate reserves using a discounted cash flow methodology. Each loan is individually identified as a TDR Loan and then grouped together with other TDR Loans with similar characteristics. The discounted cash flow analysis is then applied to these groups of TDR Loans. Loans individually evaluated for impairment exclude TDR loans that are carried at the lower of amortized cost or fair value of the collateral less cost to sell which totaled \$763 million and \$775 million at June 30, 2016 and 2015, respectively.

6. Loans Held for Sale

Loans held for sale consisted of the following:

	June 30, 2016	December 31, 2015
(in millions)		
Commercial loans:		
Construction and other real estate	\$ —	\$ 1,895
Global banking	901	200
Total commercial.....	901	2,095
Consumer loans:		
Residential mortgages	391	11
Other consumer	77	79
Total consumer	468	90
Total loans held for sale	\$ 1,369	\$ 2,185

Construction and Other Real Estate During the second quarter of 2016, we sold \$1,161 million of certain commercial real estate loans to a third party and recognized a loss on sale of approximately \$3 million, including transaction costs. Upon completion of the sale, the remaining loans that were not sold, which had a carrying value of \$612 million at June 30, 2016, were transferred back to held for investment as we now intend to hold these loans for the foreseeable future.

Global Banking During the first quarter of 2016, we transferred certain global banking loans with a carrying value of \$1,088 million to held for sale, including a portion of our interest in a large secured bridge loan facility as well as certain other loans which

were transferred as part of an effort to optimize returns on risk weighted assets. There was no lower of amortized cost or fair value adjustment recorded associated with these transfers as the transferred loans are performing. During the second quarter of 2016, the large secured bridge loan facility was repaid and replaced with a new term loan facility which had a carrying value of \$763 million at June 30, 2016 that we intend to sell through loan participations and have elected to designate under the fair value option.

Global banking commercial loans held for sale includes certain loans which we have elected to designate under the fair value option, which includes commercial 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 (including the \$763 million new term loan facility discussed above) and commercial loans that we purchase from the secondary market and hold as hedges against our exposure to certain total return swaps. The fair value of loans held for sale under these programs totaled \$867 million and \$151 million at June 30, 2016 and December 31, 2015, respectively. See Note 11, "Fair Value Option," for additional information.

During the three and six months ended June 30, 2016, we recorded lower of amortized cost or fair value adjustments of \$4 million and \$30 million, respectively, associated with the write-down of global banking loans which were transferred to held for sale prior to 2016 as a component of other income (loss) in the consolidated statement of income (loss).

Residential Mortgages As previously disclosed, we continue to evaluate our overall operations as we seek to optimize our risk profile and cost efficiencies, as well as our liquidity, capital and funding requirements. As part of this on-going evaluation, as well as continued market demand for non-performing residential mortgage loans, during the first quarter of 2016 we decided we no longer have the intent to hold for investment certain residential mortgage loans and adopted a formal program to initiate sale activities for these residential mortgage loans when a loan meeting pre-determined criteria is written down to the lower of amortized cost or fair value of the collateral less cost to sell (generally 180 days past due) in accordance with our existing charge-off policies. These loans were largely originated by us prior to the implementation of our Premier strategy.

Under this program, during the three and six months ended June 30, 2016, we transferred residential mortgage loans to held for sale with a total unpaid principal balance of approximately \$27 million and \$524 million, respectively, at the time of transfer. The carrying value of these loans prior to transfer after considering the fair value of the property less costs to sell was approximately \$25 million and \$433 million, respectively, including related escrow advances. As we plan to sell these loans to third party investors, fair value represents the price we believe a third party investor would pay to acquire the loan portfolios. During the three and six months ended June 30, 2016, we recorded an initial lower of amortized cost or fair value adjustment of \$5 million and \$38 million, respectively, associated with newly transferred loans, all of which was attributed to non-credit factors and recorded as a component of other income (loss) in the consolidated statement of income (loss). During both the three and six months ended June 30, 2016, we recorded \$6 million of additional lower of amortized cost or fair value adjustment on these loans held for sale as a component of other income (loss) in the consolidated statement of income (loss) as a result of a change in the estimated pricing on specific pools of loans.

In addition to the residential mortgage sales program discussed above, we sell all our agency eligible residential mortgage loan originations servicing released directly to PHH Mortgage Corporation ("PHH Mortgage"). Gains and losses from the sale of these residential mortgage loans are reflected as a component of residential mortgage banking revenue in the accompanying consolidated statement of income (loss). Also included in residential mortgage loans held for sale are subprime residential mortgage loans with a fair value of \$3 million at both June 30, 2016 and December 31, 2015 which were previously acquired from unaffiliated third parties and from HSBC Finance Corporation ("HSBC Finance") with the intent of securitizing or selling the loans to third parties.

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. PHH Mortgage is obligated to purchase agency eligible loans from us as of the earlier of when the customer locks the mortgage loan pricing or when the mortgage loan application is approved. As such, we retain none of the risk of market changes in mortgage rates for these loans purchased by PHH Mortgage.

Other Consumer Loans Other consumer loans held for sale reflects student loans which we no longer originate.

Valuation Allowances Excluding the commercial 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. The valuation allowance on consumer loans held for sale was \$55 million and \$13 million at June 30, 2016 and December 31, 2015, respectively. The valuation allowance on commercial loans held for sale was \$50 million and \$21 million at June 30, 2016 and December 31, 2015, respectively.

7. Intangible Assets

Intangible assets consisted of the following:

	June 30, 2016	December 31, 2015
	(in millions)	
Mortgage servicing rights	\$ —	\$ 140
Purchased credit card relationships	37	41
Total intangible assets	<u>\$ 37</u>	<u>\$ 181</u>

Mortgage Servicing Rights ("MSRs") A servicing asset is a contract under which estimated future revenues from contractually specified cash flows, such as servicing fees and other ancillary revenues, are expected to exceed the obligation to service the financial assets. Prior to our agreement with PHH Mortgage, we recognized the right to service residential mortgage loans as a separate and distinct asset at the time they were acquired or when originated loans were sold.

In March 2016, we initiated an active program to sell our remaining MSRs portfolio and reclassified them to held for sale within other assets on the consolidated balance sheet. See Note 9, "Other Assets Held for Sale," for additional information on our MSRs portfolio, including critical assumptions used to calculate fair value at June 30, 2016.

The following table summarizes the critical assumptions used to calculate the fair value of MSRs at December 31, 2015:

	December 31, 2015
Annualized constant prepayment rate	13.8%
Constant discount rate	12.6%
Weighted average life (in years)	4.5

The following table summarizes MSRs activity during the three and six months ended June 30, 2015:

	Three Months Ended June 30, 2015	Six Months Ended June 30, 2015
	(in millions)	
Fair value of MSRs:		
Beginning balance	\$ 140	\$ 159
Changes in fair value due to changes in valuation model inputs or assumptions	19	8
Reductions related to customer payments	(1)	(9)
Ending balance	<u>\$ 158</u>	<u>\$ 158</u>

The outstanding principal balance of serviced for others mortgages, which are not included in the consolidated balance sheet, totaled \$18,930 million at December 31, 2015. Servicing fees collected are included in residential mortgage banking revenue and totaled \$15 million and \$30 million during the three and six months ended June 30, 2015, respectively.

PHH Mortgage provides us with mortgage origination processing services as well as the sub-servicing of our portfolio of owned and serviced for others mortgages with an outstanding principal balance of \$36,048 million and \$37,544 million at June 30, 2016 and December 31, 2015, respectively. Although we continue to own both the mortgages on our balance sheet and the mortgage servicing rights associated with the serviced loans at the time of conversion, we sell our agency eligible originations to PHH Mortgage on a servicing released basis which results in no new mortgage servicing rights being recognized.

Purchased credit card relationships In 2012, we purchased from HSBC Finance the account relationships associated with \$746 million of credit card receivables which were not included in the sale to Capital One Financial Corporation at a fair value of \$108 million. Approximately \$43 million of this value was associated with the credit card receivables sold to First Niagara Bank, National Association and was written off at the time of sale. The remaining \$65 million was included in intangible assets and is being amortized over the estimated useful life of the credit card relationships which is ten years.

8. Goodwill

Goodwill was \$1,612 million at both June 30, 2016 and December 31, 2015. Included in goodwill for these periods were accumulated impairment losses of \$670 million. During the first half of 2016, there were no events or changes in circumstances to indicate that it is more likely than not the fair values of any of our reporting units have reduced below their respective carrying amounts.

9. Other Assets Held for Sale

In March 2016, our Retail Banking and Wealth Management business initiated an active program to sell its remaining MSR portfolio which has been in run-off for several years. As a result, we now consider the MSR portfolio and related servicing advances to be held for sale at June 30, 2016 and reported them in other assets on the consolidated balance sheet. Any sale, which would be subject to regulatory approval, is expected to be completed during the second half of 2016. As the MSRs are carried at fair value and we expect to transfer the related servicing advances to the buyer at near cost, the lower of amortized cost or fair value adjustment recorded associated with this reclassification to held for sale was insignificant.

The disposal group held for sale reported in other assets consisted of the following at June 30, 2016:

	Location on Consolidated Balance Sheet Prior to Reclassification to Held for Sale	June 30, 2016 (in millions)
Mortgage servicing rights.....	Intangible assets, net	\$ 104
Servicing advances.....	Other assets	209
Total assets held for sale.....		<u>\$ 313</u>

MSRs are subject to credit, prepayment and interest rate risk, in that their value will fluctuate as a result of changes in these economic variables. Interest rate risk is mitigated through an economic hedging program that uses securities and derivatives to offset changes in the fair value of MSRs. Since the hedging program involves trading activity, risk is quantified and managed using a number of risk assessment techniques.

MSRs are initially measured at fair value at the time that the related loans are sold and remeasured at fair value at each reporting date. Changes in fair value of MSRs are reflected in residential mortgage banking revenue in the period in which the changes occur. Fair value is determined based upon the application of valuation models and other inputs. The valuation models incorporate assumptions market participants would use in estimating future cash flows. The reasonableness of these valuation models is periodically validated by reference to external independent broker valuations and industry surveys.

The following table summarizes the critical assumptions used to calculate the fair value of MSRs at June 30, 2016:

	June 30, 2016
Annualized constant prepayment rate.....	18.0%
Constant discount rate.....	10.3%
Weighted average life (in years).....	3.7

The following table summarizes MSR activity during the three and six months ended June 30, 2016:

	Three Months Ended June 30, 2016	Six Months Ended June 30, 2016
	(in millions)	
Fair value of MSRs:		
Beginning balance	\$ 117	\$ 140
Changes in fair value due to changes in valuation model inputs or assumptions	(8)	(24)
Reductions related to customer payments	(5)	(12)
Ending balance	<u>\$ 104</u>	<u>\$ 104</u>

The outstanding principal balance of serviced for others mortgages, which are not included in the consolidated balance sheet, totaled \$17,305 million at June 30, 2016. Servicing fees collected are included in residential mortgage banking revenue and totaled \$12 million and \$25 million during the three and six months ended June 30, 2016, respectively.

10. Derivative Financial Instruments

In the normal course of business, the derivative instruments entered 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) financial instruments held for trading, (b) hedging instruments designated as qualifying hedges under derivative and hedge accounting principles 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 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 table below. 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 table below.

	June 30, 2016		December 31, 2015	
	Derivative assets	Derivative liabilities	Derivative assets	Derivative liabilities
	(in millions)			
Derivatives accounted for as fair value hedges⁽¹⁾				
OTC-cleared ⁽²⁾	\$ 76	\$ 1,075	\$ 42	\$ 240
Bilateral OTC ⁽²⁾	1	399	—	292
Interest rate contracts	77	1,474	42	532
Derivatives accounted for as cash flow hedges⁽¹⁾				
Foreign exchange contracts - bilateral OTC⁽²⁾	—	3	17	—
OTC-cleared ⁽²⁾	20	40	6	16
Bilateral OTC ⁽²⁾	—	230	—	137
Interest rate contracts	20	270	6	153
Total derivatives accounted for as hedges	97	1,747	65	685
Trading derivatives not accounted for as hedges⁽³⁾				
Exchange-traded ⁽²⁾	70	64	27	27
OTC-cleared ⁽²⁾	29,459	27,656	15,717	14,723
Bilateral OTC ⁽²⁾	22,232	25,015	18,716	19,906
Interest rate contracts	51,761	52,735	34,460	34,656
Exchange-traded ⁽²⁾	8	47	—	15
Bilateral OTC ⁽²⁾	25,217	23,675	24,160	22,324
Foreign exchange contracts	25,225	23,722	24,160	22,339
Equity contracts - bilateral OTC⁽²⁾	1,298	1,295	1,344	1,340
Exchange-traded ⁽²⁾	33	142	38	39
Bilateral OTC ⁽²⁾	746	835	891	552
Precious metals contracts	779	977	929	591
OTC-cleared ⁽²⁾	710	836	899	1,212
Bilateral OTC ⁽²⁾	1,634	1,552	2,913	2,565
Credit contracts	2,344	2,388	3,812	3,777
Other derivatives not accounted for as hedges⁽¹⁾				
Interest rate contracts - bilateral OTC⁽²⁾	1,064	162	761	120
Foreign exchange contracts - bilateral OTC⁽²⁾	—	45	—	97
Equity contracts - bilateral OTC⁽²⁾	472	372	462	422
Credit contracts - bilateral OTC⁽²⁾	34	4	73	6
Total derivatives	83,074	83,447	66,066	64,033
Less: Gross amounts of receivable / payable subject to enforceable master netting agreements⁽⁴⁾⁽⁶⁾	72,762	72,762	55,510	55,510
Less: Gross amounts of cash collateral received / posted subject to enforceable master netting agreements⁽⁵⁾⁽⁶⁾	5,123	1,399	4,942	1,530
Net amounts of derivative assets / liabilities presented in the balance sheet	5,189	9,286	5,614	6,993
Less: Gross amounts of financial instrument collateral received / posted subject to enforceable master netting agreements but not offset in the consolidated balance sheet	1,142	5,636	1,114	3,674
Net amounts of derivative assets / liabilities	\$ 4,047	\$ 3,650	\$ 4,500	\$ 3,319

(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.

(2) 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 master netting agreements and obtaining collateral. 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 both of the original counterparties. Exchange traded derivatives are executed directly on an organized exchange that provides pre-trade price transparency. Credit risk is minimized for OTC-cleared derivatives and exchange traded derivatives through daily margining required by central clearing counterparties.

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

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

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

⁽⁶⁾ 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 attempted to allocate netting to the different types of derivative instruments shown in the table above.

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

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 senior and subordinated debt obligations. The fair value of fixed-rate (U.S. dollar and non-U.S. dollar denominated) assets and liabilities fluctuates in response to changes in interest rates or foreign currency exchange rates. We utilize interest rate swaps, forward and futures contracts and foreign currency swaps to minimize the effect on earnings caused by interest rate and foreign currency 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 terminated and the hedged item continues to exist, the basis adjustment is amortized over the remaining life of the hedged item.

We recorded basis adjustments for active fair value hedges which increased the carrying amount of our debt by \$31 million and \$96 million during the three and six months ended June 30, 2016, respectively, compared with decreases of \$12 million and \$12 million during the three and six months ended June 30, 2015, respectively. We amortized \$1 million and \$3 million of basis adjustments related to terminated and/or re-designated fair value hedge relationships of our debt during the three and six months ended June 30, 2016, respectively, compared with \$2 million and \$3 million during the three and six months ended June 30, 2015, respectively. The total accumulated unamortized basis adjustments amounted to an increase in the carrying amount of our debt of \$87 million at June 30, 2016, compared with a decrease of \$6 million at December 31, 2015.

Basis adjustments for active fair value hedges of available-for-sale ("AFS") securities increased the carrying amount of the securities by \$352 million and \$954 million during the three and six months ended June 30, 2016, respectively, compared with decreases of \$397 million and \$178 million during the three and six months ended June 30, 2015, respectively. The total accumulated unamortized basis adjustments for active fair value hedges of AFS securities amounted to increases in the carrying amount of the securities of \$1,395 million and \$439 million at June 30, 2016 and December 31, 2015, respectively.

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

	Gain (Loss) on Derivative		Gain (Loss) on Hedged Items		Net Ineffective
	Interest Income (Expense)	Other Income (Loss)	Interest Income (Expense)	Other Income (Loss)	Gain (Loss) Recognized Other Income (Loss)
(in millions)					
Three Months Ended June 30, 2016					
Interest rate contracts/AFS Securities	\$ (47)	\$ (397)	\$ 96	\$ 376	\$ (21)
Interest rate contracts/long-term debt	7	32	(31)	(31)	1
Total	<u>\$ (40)</u>	<u>\$ (365)</u>	<u>\$ 65</u>	<u>\$ 345</u>	<u>\$ (20)</u>
Three Months Ended June 30, 2015					
Interest rate contracts/AFS Securities	\$ (49)	\$ 453	\$ 93	\$ (437)	\$ 16
Interest rate contracts/long-term debt	6	(12)	(22)	12	—
Total	<u>\$ (43)</u>	<u>\$ 441</u>	<u>\$ 71</u>	<u>\$ (425)</u>	<u>\$ 16</u>
Six Months Ended June 30, 2016					
Interest rate contracts/AFS Securities	\$ (95)	\$ (1,053)	\$ 189	\$ 1,002	\$ (51)
Interest rate contracts/long-term debt	15	98	(61)	(96)	2
Total	<u>\$ (80)</u>	<u>\$ (955)</u>	<u>\$ 128</u>	<u>\$ 906</u>	<u>\$ (49)</u>
Six Months Ended June 30, 2015					
Interest rate contracts/AFS Securities	\$ (103)	\$ 205	\$ 181	\$ (197)	\$ 8
Interest rate contracts/long-term debt	9	(12)	(33)	12	—
Total	<u>\$ (94)</u>	<u>\$ 193</u>	<u>\$ 148</u>	<u>\$ (185)</u>	<u>\$ 8</u>

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 the effective portion of a qualifying cash flow hedge are recognized initially 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 income (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 de-designated 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, 2016 and December 31, 2015, active cash flow hedge relationships extend or mature through July 2036. During the three and six months ended June 30, 2016, respectively, \$5 million and \$9 million of losses related to terminated and/or re-designated cash flow hedge relationships were amortized to earnings from AOCI, compared with losses of \$2 million and \$5 million during the three and six months ended June 30, 2015, respectively. During the next twelve months, we expect to amortize \$15 million of remaining losses to earnings resulting from these terminated and/or re-designated cash flow hedges. The interest accrual related to the hedging instruments is recognized in 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 all terminated cash flow hedges) and their locations on the consolidated statement of income (loss):

	Gain (Loss) Recognized in AOCI on Derivative (Effective Portion)		Location of Gain (Loss) Reclassified from AOCI into Income (Effective Portion)	Gain (Loss) Reclassified From AOCI into Income (Effective Portion)		Location of Gain (Loss) Recognized in Income on the Derivative (Ineffective Portion and Amount Excluded from Effectiveness Testing)	Gain (Loss) Recognized in Income on the Derivative (Ineffective Portion)	
	2016	2015		2016	2015		2016	2015
(in millions)								
Three Months Ended June 30,								
Foreign exchange contracts	\$ —	\$ 1	Interest income (expense)	\$ —	\$ —	Other income (loss)	\$ —	\$ —
Interest rate contracts	(24)	48	Interest income (expense)	(5)	(2)	Other income (loss)	—	—
Total	<u>\$ (24)</u>	<u>\$ 49</u>		<u>\$ (5)</u>	<u>\$ (2)</u>		<u>\$ —</u>	<u>\$ —</u>
Six Months Ended June 30,								
Foreign exchange contracts	\$ —	\$ 1	Interest income (expense)	\$ —	\$ —	Other income (loss)	\$ —	\$ —
Interest rate contracts	(100)	15	Interest income (expense)	(9)	(5)	Other income (loss)	—	—
Total	<u>\$ (100)</u>	<u>\$ 16</u>		<u>\$ (9)</u>	<u>\$ (5)</u>		<u>\$ —</u>	<u>\$ —</u>

Trading Derivatives and Non-Qualifying Hedging Activities In addition to risk management, we enter into derivative instruments, including buy- and sell-protection credit derivatives, for trading and market making purposes, to repackage risks and structure trades to facilitate clients' needs for various risk taking and risk modification purposes. We manage our risk exposure by entering into offsetting derivatives with other financial institutions to mitigate the market risks, in part or in full, arising from our trading activities with our clients. In addition, we also enter into buy-protection credit derivatives with other market participants 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 or residential mortgage banking revenue. Credit losses arising from counterparty risk on over-the-counter derivative instruments and offsetting buy protection credit derivative positions are recognized as an adjustment to the fair value of the derivatives and are recorded in trading revenue.

Our non-qualifying hedging activities include:

- Derivative contracts related to the fixed-rate long-term debt issuances and hybrid instruments, including all structured notes and structured deposits, for which we have elected fair value option accounting. These derivative contracts are non-qualifying 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.
- Forward purchase or sale of to-be-announced ("TBA") securities designated to economically hedge mortgage servicing rights. Changes in the fair value of TBA positions, which are considered derivatives, are recorded in residential mortgage banking revenue.

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 (loss) on instruments designated at fair value and related derivatives, other income (loss) or residential mortgage banking revenue while the derivative asset or liability positions are reflected as other assets or other liabilities.

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

Location of Gain (Loss) Recognized in Income on Derivatives		Amount of Gain (Loss) Recognized in Income on Derivatives			
		Three Months Ended June 30,		Six Months Ended June 30,	
		2016	2015	2016	2015
(in millions)					
Interest rate contracts	Trading revenue	\$ (233)	\$ 71	\$ (510)	\$ 541
Interest rate contracts	Residential mortgage banking revenue	11	(18)	43	6
Foreign exchange contracts.....	Trading revenue	131	207	228	(149)
Equity contracts	Trading revenue	3	4	3	3
Precious metals contracts.....	Trading revenue	29	(27)	29	19
Credit contracts	Trading revenue	(25)	4	(62)	(17)
Total		<u>\$ (84)</u>	<u>\$ 241</u>	<u>\$ (269)</u>	<u>\$ 403</u>

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

Location of Gain (Loss) Recognized in Income on Derivatives		Amount of Gain (Loss) Recognized in Income on Derivatives			
		Three Months Ended June 30,		Six Months Ended June 30,	
		2016	2015	2016	2015
(in millions)					
Interest rate contracts	Gain (loss) on instruments designated at fair value and related derivatives	\$ 111	\$ (142)	\$ 325	\$ (33)
Interest rate contracts	Residential mortgage banking revenue	—	1	—	1
Foreign exchange contracts	Gain (loss) on instruments designated at fair value and related derivatives	8	6	20	5
Equity contracts	Gain (loss) on instruments designated at fair value and related derivatives	81	(125)	32	132
Precious metals contracts.....	Gain (loss) on instruments designated at fair value and related derivatives	—	—	—	1
Credit contracts	Gain (loss) on instruments designated at fair value and related derivatives	—	(3)	—	(3)
Credit contracts	Other income (loss)	(29)	(45)	(41)	(23)
Total		<u>\$ 171</u>	<u>\$ (308)</u>	<u>\$ 336</u>	<u>\$ 80</u>

Credit-Risk Related Contingent Features We enter into total return swap, interest rate swap, cross-currency swap and credit default swap contracts, amongst others, which 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 HSBC Bank USA, National Association's ("HSBC Bank USA") 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 HSBC Bank USA is downgraded by one or more notches. The aggregate fair value of all derivative instruments with credit-risk-related contingent features that were in a liability position at June 30, 2016 was \$6,731 million, for which we had posted collateral of \$6,559 million. The aggregate fair value of all derivative instruments with credit-risk-related contingent features that were in a liability position at December 31, 2015 was \$7,139 million, for which we had posted collateral of \$6,283 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 tables summarize our obligation to post additional collateral (from the current collateral level) in certain hypothetical commercially reasonable downgrade scenarios of our long term ratings. It is not appropriate to accumulate or extrapolate information presented in the tables below to determine our total obligation because the information presented to determine the obligation in hypothetical rating scenarios is not mutually exclusive.

Moody's	Single-notch downgrade	Two-notch downgrade
	Aa3	A1
	(in millions)	
Amount of additional collateral to be posted upon downgrade	\$ —	\$ 67

Standard & Poor's ("S&P")	Single-notch downgrade	Two-notch downgrade
	A+	A
	(in millions)	
Amount of additional collateral to be posted upon downgrade	\$ 67	\$ 77

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

	June 30, 2016	December 31, 2015
	(in millions)	
Interest rate:		
Futures and forwards	\$ 247,415	\$ 149,413
Swaps	2,301,773	2,453,526
Options written	96,548	65,747
Options purchased	125,146	80,092
	2,770,882	2,748,778
Foreign exchange:		
Swaps, futures and forwards	998,941	980,811
Options written	75,580	81,132
Options purchased	76,607	82,004
Spot.....	29,982	42,724
	1,181,110	1,186,671
Commodities, equities and precious metals:		
Swaps, futures and forwards	47,941	35,546
Options written	18,267	19,601
Options purchased	31,278	33,374
	97,486	88,521
Credit derivatives	161,251	188,070
Total.....	\$ 4,210,729	\$ 4,212,040

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") and as endorsed by the European Union ("EU"). 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 securities sold under repurchase agreements, certain fixed-rate long-term debt issuances and hybrid instruments which include all structured notes and structured deposits. Changes in fair value for these assets and liabilities are reported as gain (loss) on instruments designated at fair value and related derivatives in the consolidated statement of income (loss).

Loans 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. The election allows 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 consensus 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 (loss). Because a substantial majority of the loans elected for the fair value option are floating rate assets, 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, 2016, there was a fair value option loan in nonaccrual status, which had a fair value of \$57 million and an unpaid principal balance of \$69 million, and there were no fair value option loans 90 days or more past due. As of December 31, 2015, no loans for which the fair value option has been elected were 90 days or more past due or in nonaccrual status.

Resale and Repurchase Agreements We elected to apply FVO accounting to certain securities purchased and sold under resale and repurchase agreements which are trading in nature. The election allows us to account for these resale and repurchase agreements at fair value which is consistent with the manner in which the instruments are managed. The fair value of the resale and repurchase agreements is determined using market rates currently offered on comparable transactions with similar underlying collateral and maturities. Interest on these resale and repurchase agreements is recorded as interest income or expense in the consolidated statement of income (loss). The components of gain (loss) related to these resale and repurchase agreements designated at fair value are summarized in the table below.

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 (loss). The components of gain (loss) 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 structured deposits. The valuation of the hybrid instruments is predominantly driven by the derivative features embedded within the instruments and 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 (loss). The components of gain (loss) related to hybrid instruments designated at fair value which reflect the instruments described above 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	Unpaid Principal Balance	Fair Value over (under) Unpaid Principal Balance
	(in millions)		
At June 30, 2016			
Commercial loans held for sale.....	\$ 867	\$ 890	\$ (23)
Securities purchased under resale agreements	782	776	6
Securities sold under repurchase agreements	2,676	2,670	6
Fixed rate long-term debt.....	2,096	1,750	346
Hybrid instruments:			
Structured deposits	7,285	7,136	149
Structured notes.....	7,143	7,323	(180)
At December 31, 2015			
Commercial loans held for sale.....	\$ 151	\$ 159	\$ (8)
Securities sold under repurchase agreements	1,976	1,970	6
Fixed rate long-term debt.....	2,007	1,750	257
Hybrid instruments:			
Structured deposits	6,919	7,016	(97)
Structured notes.....	7,164	7,323	(159)

Components of Gain (Loss) on Instruments at Fair Value and Related Derivatives Gain (loss) on instruments designated at fair value and related derivatives includes the changes in fair value related to interest, credit and other risks as well as the mark-to-market adjustment on the related derivatives and the net realized gains or losses on these derivatives. The following table summarizes the components of gain (loss) on instruments designated at fair value and related derivatives related to the changes in fair value of the financial instrument accounted for under FVO:

	Loans	Securities Purchased Under Resale Agreements	Securities Sold Under Repurchase Agreements	Long-Term Debt	Hybrid Instruments	Total
(in millions)						
Three Months Ended June 30, 2016						
Interest rate and other components ⁽¹⁾	\$ —	\$ —	\$ (4)	\$ (70)	\$ (128)	\$ (202)
Credit risk component ⁽²⁾⁽³⁾	3	—	—	(41)	2	(36)
Total mark-to-market on financial instruments designated at fair value	3	—	(4)	(111)	(126)	(238)
Mark-to-market on the related derivatives	—	—	—	67	117	184
Net realized gain on the related long-term debt derivatives	—	—	—	16	—	16
Gain (loss) on instruments designated at fair value and related derivatives	\$ 3	\$ —	\$ (4)	\$ (28)	\$ (9)	\$ (38)
Three Months Ended June 30, 2015						
Interest rate and other components ⁽¹⁾	\$ —	\$ —	\$ (2)	\$ 132	\$ 212	\$ 342
Credit risk component ⁽²⁾⁽³⁾	2	—	—	48	(72)	(22)
Total mark-to-market on financial instruments designated at fair value	2	—	(2)	180	140	320
Mark-to-market on the related derivatives	—	—	—	(127)	(154)	(281)
Net realized gain on the related long-term debt derivatives	—	—	—	17	—	17
Gain (loss) on instruments designated at fair value and related derivatives	\$ 2	\$ —	\$ (2)	\$ 70	\$ (14)	\$ 56
Six Months Ended June 30, 2016						
Interest rate and other components ⁽¹⁾	\$ —	\$ 5	\$ 1	\$ (197)	\$ (162)	\$ (353)
Credit risk component ⁽²⁾⁽³⁾	—	—	—	108	46	154
Total mark-to-market on financial instruments designated at fair value	—	5	1	(89)	(116)	(199)
Mark-to-market on the related derivatives	—	—	—	194	151	345
Net realized gain on the related long-term debt derivatives	—	—	—	32	—	32
Gain (loss) on instruments designated at fair value and related derivatives	\$ —	\$ 5	\$ 1	\$ 137	\$ 35	\$ 178
Six Months Ended June 30, 2015						
Interest rate and other components ⁽¹⁾	\$ —	\$ —	\$ (2)	\$ 50	\$ (76)	\$ (28)
Credit risk component ⁽²⁾⁽³⁾	(8)	—	—	118	(43)	67
Total mark-to-market on financial instruments designated at fair value	(8)	—	(2)	168	(119)	39
Mark-to-market on the related derivatives	—	—	—	(57)	125	68
Net realized gain on the related long-term debt derivatives	—	—	—	34	—	34
Gain (loss) on instruments designated at fair value and related derivatives	\$ (8)	\$ —	\$ (2)	\$ 145	\$ 6	\$ 141

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

⁽²⁾ During the three months ended June 30, 2016, the loss in the credit risk component for long-term debt was attributable to the tightening of our own credit spreads while the gains during the six months ended June 30, 2016 was attributable to the widening of our own credit spreads. During the three and six months ended June 30, 2015, the gains in the credit risk component for long-term debt were attributable to the widening of our own credit spreads.

- ⁽³⁾ During the three months ended June 30, 2016, the gain in the credit risk component for hybrid instruments was attributable to the widening of credit spreads on structured deposits, partially offset by the tightening of our own credits spreads related to structured notes. During the six months ended June 30, 2016, the gains in the credit risk component for hybrid instruments was attributable to the widening of our own credit spreads related to structured notes, partially offset by the tightening of credit spreads on structured deposits. During the three and six months ended June 30, 2015, the losses in the credit risk component for hybrid instruments were attributable to changes in estimates associated with the valuation techniques used to measure the fair value of certain structured notes and deposits, partially offset by the widening of credit spreads on structured deposits and, in the year-to-date period, the widening of our own credit spreads related to structured notes.

12. Accumulated Other Comprehensive Income (Loss)

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

Three Months Ended June 30	2016	2015
	(in millions)	
Unrealized gains (losses) on investment securities:		
Balance at beginning of period.....	\$ 44	\$ 130
Other comprehensive income (loss) for period:		
Net unrealized gains (losses) arising during period, net of tax of \$135 million and \$(117) million, respectively	223	(198)
Reclassification adjustment for gains realized in net income, net of tax of \$(13) million and \$(13) million, respectively ⁽¹⁾	(23)	(22)
Amortization of net unrealized losses on securities transferred from available-for-sale to held-to-maturity realized in net income, net of tax of \$4 million and \$4 million, respectively ⁽²⁾	8	7
Total other comprehensive income (loss) for period.....	208	(213)
Balance at end of period.....	252	(83)
Unrealized losses on derivatives designated as cash flow hedges:		
Balance at beginning of period.....	(215)	(175)
Other comprehensive income (loss) for period:		
Net unrealized gains (losses) arising during period, net of tax of \$(10) million and \$19 million, respectively	(14)	30
Reclassification adjustment for losses realized in net income, net of tax of \$2 million and \$1 million, respectively ⁽³⁾	3	1
Total other comprehensive income (loss) for period.....	(11)	31
Balance at end of period.....	(226)	(144)
Pension and postretirement benefit liability:		
Balance at beginning and end of period	(3)	(2)
Total accumulated other comprehensive income (loss) at end of period.....	\$ 23	\$ (229)

Six Months Ended June 30,	2016	2015
	(in millions)	
Unrealized gains (losses) on investment securities:		
Balance at beginning of period.....	\$ (234)	\$ 158
Other comprehensive income (loss) for period:		
Net unrealized gains (losses) arising during period, net of tax of \$308 million and \$(128) million, respectively	515	(217)
Reclassification adjustment for gains realized in net income, net of tax of \$(24) million and \$(22) million, respectively ⁽¹⁾	(41)	(36)
Amortization of net unrealized losses on securities transferred from available-for-sale to held-to-maturity realized in net income, net of tax of \$7 million and \$7 million, respectively ⁽²⁾	12	12
Total other comprehensive income (loss) for period.....	486	(241)
Balance at end of period.....	252	(83)
Unrealized losses on derivatives designated as cash flow hedges:		
Balance at beginning of period.....	(170)	(156)
Other comprehensive income (loss) for period:		
Net unrealized gains (losses) arising during period, net of tax of \$(38) million and \$7 million, respectively	(62)	9
Reclassification adjustment for losses realized in net income, net of tax of \$3 million and \$2 million, respectively ⁽³⁾	6	3
Total other comprehensive income (loss) for period.....	(56)	12
Balance at end of period.....	(226)	(144)
Pension and postretirement benefit liability:		
Balance at beginning of period.....	(3)	(3)
Other comprehensive income for period:		
Change in unfunded pension and postretirement liability, net of tax of less than \$1 million.....	—	1
Total other comprehensive income for period.....	—	1
Balance at and end of period.....	(3)	(2)
Total accumulated other comprehensive income (loss) at end of period.....	\$ 23	\$ (229)

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

⁽²⁾ Amount amortized to net income is included in interest income in our consolidated statement of income (loss). During 2014, we transferred securities from available-for-sale to held-to-maturity. At the date of transfer, AOCI included net pretax unrealized losses of \$234 million related to the transferred securities which will be 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.

⁽³⁾ Amount reclassified to net income is included in interest income (expense) in our consolidated statement of income (loss).

13. Pension and Other Postretirement Benefits

Defined Benefit Pension Plan The components of pension expense for the defined benefit pension plan recorded in our consolidated statement of income (loss) and shown in the table below reflect the portion of pension expense of the combined HSBC North America Pension Plan (either the "HSBC North America Pension Plan" or the "Plan") which has been allocated to us.

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Interest cost on projected benefit obligation.....	17	16	35	33
Expected return on plan assets.....	(22)	(23)	(42)	(46)
Amortization of net actuarial loss.....	9	10	19	19
Administrative costs.....	2	1	3	3
Pension expense.....	<u>\$ 6</u>	<u>\$ 4</u>	<u>\$ 15</u>	<u>\$ 9</u>

Higher pension expense during the three and six months ended June 30, 2016 was due primarily to a lower expected return on plan assets which reflects market conditions and a shift to more fixed income securities in the investment portfolio to better match pension liabilities.

Postretirement Plans Other Than Pensions The components of net periodic benefit cost for our postretirement plans other than pension are as follows:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Interest cost on accumulated benefit obligation	\$ —	\$ —	\$ 1	\$ 1
Net periodic postretirement benefit cost.....	\$ —	\$ —	\$ 1	\$ 1

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 include funding arrangements, derivative transactions, servicing arrangements, information technology support, centralized support services, banking and other miscellaneous services 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 to other HSBC affiliates (other than Federal Deposit Insurance Corporation ("FDIC") insured banks) are legally required to be secured by eligible collateral. The following tables and discussions below present the more significant related party balances and the income (expense) generated by related party transactions:

	June 30, 2016	December 31, 2015
	(in millions)	
Assets:		
Cash and due from banks	\$ 172	\$ 169
Interest bearing deposits with banks	280	244
Securities purchased under agreements to resell ⁽¹⁾	4,000	4,000
Trading assets ⁽²⁾	19,795	18,632
Loans	5,072	4,815
Other ⁽³⁾	229	458
Total assets	<u>\$ 29,548</u>	<u>\$ 28,318</u>
Liabilities:		
Deposits	\$ 22,589	\$ 13,486
Trading liabilities ⁽²⁾	21,632	19,496
Short-term borrowings	2,449	2,004
Long-term debt	1,830	1,827
Other ⁽³⁾	274	346
Total liabilities.....	<u>\$ 48,774</u>	<u>\$ 37,159</u>

⁽¹⁾ Reflects overnight purchases of U.S. Treasury securities which HSBC Securities (USA) Inc. ("HSI") has agreed to repurchase.

⁽²⁾ Trading assets and trading liabilities do not reflect the impact of netting which allows the offsetting of amounts relating to certain contracts if certain conditions are met. Trading assets and liabilities primarily consist of derivatives contracts.

⁽³⁾ Other assets and other liabilities primarily consist of derivative balances associated with hedging activities and other miscellaneous account receivables and payables.

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Income/(Expense):				
Interest income.....	\$ 30	\$ 28	\$ 60	\$ 58
Interest expense	(35)	(8)	(64)	(22)
Net interest income.....	(5)	20	(4)	36
Trading revenue.....	956	221	799	369
Servicing and other fees from HSBC affiliates:				
HSBC Bank plc.....	26	18	48	37
HSBC Finance Corporation.....	8	13	21	29
HSBC Markets (USA) Inc. ("HMUS")	4	6	10	13
Other HSBC affiliates.....	13	16	26	30
Total servicing and other fees from HSBC affiliates.....	51	53	105	109
Gain (loss) on instruments designed at fair value and related derivatives	79	(128)	35	130
Support services from HSBC affiliates:				
HMUS.....	(55)	(69)	(108)	(133)
HSBC Technology & Services (USA) ("HTSU")	(253)	(264)	(482)	(504)
Other HSBC affiliates.....	(47)	(52)	(85)	(100)
Total support services from HSBC affiliates.....	(355)	(385)	(675)	(737)
Stock based compensation expense with HSBC ⁽¹⁾	(11)	(15)	(17)	(28)

⁽¹⁾ 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 (loss). Employees also may participate in a defined benefit pension plan and other postretirement plans sponsored by HSBC North America which are discussed in Note 13, "Pension and Other Postretirement Benefits."

Funding Arrangements with HSBC Affiliates:

We use HSBC affiliates to fund a portion of our borrowing and liquidity needs. At June 30, 2016 and December 31, 2015, long-term debt with affiliates reflected \$1.0 billion in floating rate senior debt and \$0.9 billion in floating rate subordinated debt with HSBC North America. These borrowings mature in December 2016 and May 2025, respectively.

We have a \$150 million uncommitted line of credit with HSBC North America Inc. although there was no outstanding balance at either June 30, 2016 or December 31, 2015.

We have also incurred short-term borrowings with certain affiliates, largely securities sold under repurchase agreements with HSI. In addition, certain affiliates have also placed deposits with us.

Lending and Derivative Related Arrangements Extended to HSBC Affiliates:

At June 30, 2016 and December 31, 2015, we have the following loan balances outstanding with HSBC affiliates:

	June 30, 2016	December 31, 2015
	(in millions)	
HSBC Finance Corporation	\$ 3,013	\$ 3,014
HSBC Markets (USA) Inc. ("HMUS") and subsidiaries	588	978
HSBC Mexico S.A.	725	725
Regency Assets Limited ("Regency") ⁽¹⁾	729	58
Other short-term affiliate lending.....	17	40
Total loans.....	\$ 5,072	\$ 4,815

⁽¹⁾ An asset-backed commercial paper conduit consolidated by an HSBC affiliate.

HSBC Finance Corporation We have extended a \$5.0 billion, 364-day uncommitted unsecured revolving credit agreement to HSBC Finance which expires during the fourth quarter of 2016. The credit agreement allows for borrowings with maturities of

up to 5 years. At both June 30, 2016 and December 31, 2015, \$3.0 billion was outstanding under this credit agreement with \$0.5 billion maturing in September 2017, \$1.5 billion maturing in January 2018 and \$1.0 billion maturing in September 2018. We have also extended a committed revolving credit facility to HSBC Finance of \$1.0 billion which did not have any outstanding balance at either June 30, 2016 or December 31, 2015. This credit facility expires in May 2017.

HMUS and subsidiaries We have extended loans and lines, some of them uncommitted, to HMUS and its subsidiaries in the amount of \$10.7 billion at both June 30, 2016 and December 31, 2015, respectively, of which \$588 million and \$978 million, respectively, was outstanding. The maturities of the outstanding borrowings range from overnight to three months. Each borrowing is re-evaluated prior to its maturity date and either extended or allowed to mature.

HSBC Mexico S.A. We have extended an uncommitted line of credit to HSBC Mexico S.A. in the amount of \$1.2 billion at both June 30, 2016 and December 31, 2015, of which \$725 million was outstanding at both June 30, 2016 and December 31, 2015, respectively. The outstanding balances mature in 2018.

Regency HUSI is committed to provide liquidity facilities to backstop the liquidity risk in Regency in relation to assets originated in the United States. The notional amount of the liquidity facilities provided by HUSI to Regency was approximately \$3.8 billion and \$3.4 billion at June 30, 2016 and December 31, 2015, respectively, which is less than half of Regency's total liquidity facilities. At June 30, 2016 and December 31, 2015, \$729 million and \$58 million, respectively, was outstanding under these facilities. These borrowings mature at various stages between 2016 and 2017.

We have extended lines of credit to various other HSBC affiliates totaling \$3.1 billion which did not have any outstanding balances at either June 30, 2016 and December 31, 2015.

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, 2016 and December 31, 2015, there were \$17 million and \$40 million, respectively, of these loans outstanding.

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 Finance, HSBC Bank plc and other HSBC affiliates. The notional value of derivative contracts related to these transactions was approximately \$978.1 billion and 1,004.1 billion at June 30, 2016 and December 31, 2015, 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 \$13 million and \$216 million at June 30, 2016 and December 31, 2015, respectively. Our Global Banking and Markets business accounts 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. The following summarizes these activities:

- Servicing activities for residential mortgage loans across North America are performed both by us and HSBC Finance. As a result, we receive servicing fees from HSBC Finance for services performed on their behalf and pay servicing fees to HSBC Finance for services performed on our behalf. The fees we receive from HSBC Finance are reported in servicing and other fees from HSBC affiliates. Fees we pay to HSBC Finance are reported in support services from HSBC affiliates. This includes fees paid for the servicing of residential mortgage loans (with a carrying amount of \$636 million and \$696 million at June 30, 2016 and December 31, 2015, respectively) that we purchased from HSBC Finance in 2003 and 2004.
- HSBC North America's technology and certain centralized support services including human resources, corporate affairs, risk management, legal, compliance, tax, finance and other shared services that are centralized within HTSU. HTSU also provides certain item processing and statement processing activities to us. The fees we pay HTSU for the centralized support services and processing activities are included in support services from HSBC affiliates. We also receive fees from HTSU for providing certain administrative services to them. The fees we receive from HTSU are included in servicing and other fees from HSBC affiliates. In certain cases, for facilities used by HTSU, we may guarantee their performance under the lease agreements.
- We use HSBC Global Services Limited, an HSBC affiliate located outside of the United States, to provide various support services to our operations including among other areas, customer service, systems, collection and accounting functions. The expenses related to these services are included in support services from HSBC affiliates.
- We utilize HSI for broker dealer, debt underwriting, customer referrals, loan syndication and other treasury and traded markets related services, pursuant to service level agreements. Fees charged by HSI for broker dealer, loan syndication services, treasury and traded markets related services are included in support services from HSBC affiliates. Debt underwriting fees charged by HSI are deferred as a reduction of long-term debt and amortized to interest expense over the life of the related debt. Customer referral fees paid to HSI are netted against customer fee income, which is included in other fees and commissions.

Other Transactions with HSBC Affiliates

We received revenue from our affiliates for rent on certain office space, which has been recorded as a component of support services from HSBC affiliates. Rental revenue from our affiliates totaled \$15 million and \$31 million during the three and six months ended June 30, 2016, respectively, compared with \$14 million and \$29 million during the three and six months ended June 30, 2015, respectively.

During the second quarter of 2016, HSBC USA issued \$1,265 million of 6.0 percent Non-Cumulative Series I Preferred Stock to HSBC North America. See Note 16, "Retained Earnings and Regulatory Capital Requirements," for additional details.

15. Business Segments

We have four distinct business segments that we utilize for management reporting and analysis purposes, which are aligned with HSBC's global businesses and business strategy: Retail Banking and Wealth Management ("RBWM"), Commercial Banking ("CMB"), Global Banking and Markets ("GB&M") and Private Banking ("PB").

We previously announced that with effect from January 1, 2016, a portion of our Business Banking client group, generally representing those small business customers with \$3 million or less in annual revenue (now referred to as Retail Business Banking), would be better managed as part of RBWM rather than CMB given the similarities in their banking activities with the RBWM customer base. Therefore, to coincide with the change in our management reporting effective beginning in the first quarter of 2016, we have included the results of Retail Business Banking in the RBWM segment for all periods presented. As a result, loss before tax for the RBWM segment increased \$8 million and \$16 million during the three and six months ended June 30, 2015, respectively. There have been no other changes in the basis of our segmentation or measurement of segment profit as compared with the presentation in our 2015 Form 10-K.

During the first half of 2016, we determined that a portion of our Large Corporate client group, generally representing those large business customers with more complex banking activities which require the levels of support routinely provided by relationship managers in GB&M, would be better managed as part of GB&M rather than CMB. We currently anticipate this transfer will occur effective October 1, 2016. Therefore, beginning in the fourth quarter of 2016, we will include the results of the transferred client relationships in the GB&M segment.

Our segment results are presented in accordance with HSBC Group accounting and reporting policies, which apply IFRSs as issued by the IASB and as endorsed by the EU, and, 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. However, we continue to monitor capital adequacy and report to regulatory agencies on a U.S. GAAP basis.

We are currently in the process of re-evaluating the financial information used to manage our businesses, including the scope and content of the U.S. GAAP financial data being reported to our Management and our Board. To the extent we make changes to this reporting in 2016, we will evaluate any impact such changes may have on our segment reporting.

A summary of differences between U.S. GAAP and the Group Reporting Basis as they impact our results are presented in Note 22, "Business Segments," in our 2015 Form 10-K. There have been no significant changes since December 31, 2015 in the differences between U.S. GAAP and the Group Reporting Basis.

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:

Group Reporting Basis Consolidated Amounts										
	RBWM	CMB	GB&M	PB	Other	Adjustments/ Reconciling Items	Total	Group Reporting Basis Adjustments ⁽³⁾	Group Reporting Basis Reclassi- fications ⁽⁴⁾	U.S. GAAP Consolidated Totals
	(in millions)									
Three Months Ended June 30, 2016										
Net interest income ⁽¹⁾	\$ 204	\$ 205	\$ 190	\$ 49	\$ (5)	\$ —	\$ 643	\$ (22)	\$ 17	\$ 638
Other operating income.....	77	67	178	22	(19)	—	325	(14)	(18)	293
Total operating income	281	272	368	71	(24)	—	968	(36)	(1)	931
Loan impairment charges...	9	18	150	—	—	—	177	(19)	(24)	134
	272	254	218	71	(24)	—	791	(17)	23	797
Operating expenses ⁽²⁾	268	166	249	59	63	—	805	(5)	23	823
Profit (loss) before income tax expense.....	\$ 4	\$ 88	\$ (31)	\$ 12	\$ (87)	\$ —	\$ (14)	\$ (12)	\$ —	\$ (26)
Three Months Ended June 30, 2015										
Net interest income ⁽¹⁾	\$ 199	\$ 207	\$ 132	\$ 50	\$ (5)	\$ (3)	\$ 580	\$ (18)	\$ 64	\$ 626
Other operating income.....	87	70	219	27	75	3	481	(15)	(63)	403
Total operating income	286	277	351	77	70	—	1,061	(33)	1	1,029
Loan impairment charges...	15	4	4	(1)	—	—	22	(27)	(1)	(6)
	271	273	347	78	70	—	1,039	(6)	2	1,035
Operating expenses ⁽²⁾	313	172	264	58	50	—	857	(9)	2	850
Profit (loss) before income tax expense.....	\$ (42)	\$ 101	\$ 83	\$ 20	\$ 20	\$ —	\$ 182	\$ 3	\$ —	\$ 185
Six Months Ended June 30, 2016										
Net interest income ⁽¹⁾	\$ 405	\$ 418	\$ 366	\$ 100	\$ (10)	\$ (2)	\$ 1,277	\$ (41)	\$ 56	\$ 1,292
Other operating income.....	157	140	397	45	158	2	899	(84)	(60)	755
Total operating income	562	558	763	145	148	—	2,176	(125)	(4)	2,047
Loan impairment charges...	25	31	354	(1)	—	—	409	(88)	(30)	291
	537	527	409	146	148	—	1,767	(37)	26	1,756
Operating expenses ⁽²⁾	527	328	473	117	89	—	1,534	(11)	26	1,549
Profit (loss) before income tax expense.....	\$ 10	\$ 199	\$ (64)	\$ 29	\$ 59	\$ —	\$ 233	\$ (26)	\$ —	\$ 207
Balances at end of period:										
Total assets.....	\$ 20,899	\$ 30,240	\$ 202,708	\$ 8,244	\$ 492	\$ —	\$ 262,583	\$ (51,717)	\$ 7	\$ 210,873
Total loans, net.....	17,791	29,025	21,787	6,555	—	—	75,158	(192)	3,781	78,747
Goodwill	581	358	—	325	—	—	1,264	348	—	1,612
Total deposits	31,854	23,685	28,593	13,670	—	—	97,802	(4,994)	40,011	132,819

Group Reporting Basis Consolidated Amounts

	RBWM	CMB	GB&M	PB	Other	Adjustments/ Reconciling Items	Total	Group Reporting Basis Adjustments ⁽³⁾	Group Reporting Basis Reclassi- fications ⁽⁴⁾	U.S. GAAP Consolidated Totals
	(in millions)									
Six Months Ended June 30, 2015										
Net interest income ⁽¹⁾	\$ 400	\$ 404	\$ 250	\$ 99	\$ (11)	\$ (8)	\$ 1,134	\$ (32)	\$ 130	\$ 1,232
Other operating income.....	175	146	485	51	157	8	1,022	(25)	(130)	867
Total operating income	575	550	735	150	146	—	2,156	(57)	—	2,099
Loan impairment charges...	37	14	12	(1)	—	—	62	(13)	(2)	47
	538	536	723	151	146	—	2,094	(44)	2	2,052
Operating expenses ⁽²⁾	607	328	523	116	77	—	1,651	(26)	2	1,627
Profit (loss) before income tax expense.....	\$ (69)	\$ 208	\$ 200	\$ 35	\$ 69	\$ —	\$ 443	\$ (18)	\$ —	\$ 425
Balances at end of period:										
Total assets.....	\$ 20,059	\$ 31,868	\$ 181,541	\$ 8,174	\$ 779	\$ —	\$ 242,421	\$ (45,816)	\$ 13	\$ 196,618
Total loans, net.....	17,111	30,711	24,489	6,498	—	—	78,809	906	3,254	82,969
Goodwill	581	358	—	325	—	—	1,264	348	—	1,612
Total deposits	31,139	21,209	30,343	12,766	—	—	95,457	(4,512)	31,602	122,547

(1) Net interest income of each segment represents the difference between actual interest earned on assets and interest paid on liabilities of the segment adjusted for a funding charge or credit. 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. The objective of these charges/credits is to transfer interest rate risk from the segments to one centralized unit in Balance Sheet Management and more appropriately reflect the profitability of segments.

(2) Expenses for the segments include fully apportioned corporate overhead expenses.

(3) Represents adjustments associated with differences between the Group Reporting Basis and the U.S. GAAP basis of accounting.

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

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. Any non-contractual dividend from HSBC Bank USA would require the approval of the Office of the Comptroller of the Currency ("the OCC"). Approval is also required if the total of all dividends HSBC Bank USA declares in any year exceeds the cumulative net profits for that year, combined with the profits for the two preceding years reduced by dividends attributable to those years. 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.

The following table summarizes the capital amounts and ratios of HSBC USA and HSBC Bank USA, calculated in accordance with banking regulations in effect at June 30, 2016 and December 31, 2015:

	June 30, 2016			December 31, 2015		
	Capital Amount	Well-Capitalized Ratio ⁽¹⁾	Actual Ratio	Capital Amount	Well-Capitalized Ratio ⁽¹⁾	Actual Ratio
(dollars are in millions)						
Common equity Tier 1 ratio:						
HSBC USA.....	\$ 17,959	4.5% ⁽²⁾	12.8%	\$ 17,766	4.5% ⁽²⁾	12.0%
HSBC Bank USA.....	19,983	6.5	14.8	19,796	6.5	13.8
Tier 1 capital ratio:						
HSBC USA.....	19,005	6.0	13.6	18,764	6.0	12.6
HSBC Bank USA.....	22,334	8.0	16.5	22,109	8.0	15.4
Total capital ratio:						
HSBC USA.....	24,404	10.0	17.5	24,425	10.0	16.5
HSBC Bank USA.....	27,076	10.0	20.0	26,670	10.0	18.6
Tier 1 leverage ratio:						
HSBC USA.....	19,005	4.0 ⁽²⁾	9.1	18,764	4.0 ⁽²⁾	9.5
HSBC Bank USA.....	22,334	5.0	10.9	22,109	5.0	11.6
Risk weighted assets:						
HSBC USA.....	139,883			148,421		
HSBC Bank USA.....	135,389			143,393		

⁽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 have 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.

⁽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 minimum ratios.

In 2013, U.S. banking regulators issued a final rule implementing the Basel III capital framework in the U.S. ("the Basel III final rule") which, for banking organizations such as HSBC North America and HSBC Bank USA, took effect in 2014 with certain provisions being phased in over time through the beginning of 2019. As a result, the capital ratios in the table above are reported in accordance with the Basel III transition rules within the final rule. In addition, risk weighted assets in the table above are calculated using the Basel III Standardized Approach.

As previously reported, as a result of the adoption of the final rules by the U.S. banking regulators implementing the Basel III regulatory capital and liquidity reforms from the Basel Committee, together with the impact of similar implementation by United Kingdom banking regulators, we continue to review the composition of our capital structure. During the second quarter of 2016, HSBC USA redeemed all of its remaining externally issued preferred stock, including its Floating Rate Non-Cumulative Series F Preferred Stock, Floating Rate Non-Cumulative Series G Preferred Stock and 6.50 percent Non-Cumulative Series H Preferred Stock, at their stated values of \$25 per share, \$1,000 per share and \$1,000 per share, respectively, resulting in a total cash payment of \$1,265 million. In connection with these redemptions, HSBC USA issued 1,265 shares of 6.0 percent Non-Cumulative Series I Preferred Stock to HSBC North America in exchange for cash consideration of \$1,265 million. Dividends on the 6.0 percent Non-Cumulative Series I Preferred Stock are non-cumulative and will be payable when and if declared by our Board of Directors semi-annually on the first business day of June and December of each year at the stated rate of 6.0 percent. The Series I Preferred Stock may be redeemed at our option, in whole or in part, on or after May 31, 2021 or at any time after we receive notice from the Federal Reserve Board ("FRB") that the Series I Preferred Stock may no longer be included in the calculation of regulatory capital as a result of any subsequent changes in applicable laws, rules or regulations, at a redemption price equal to \$1,000,000 per share, plus an amount equal to any declared and unpaid dividends, but only after receipt of written approval from the FRB.

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) provide liquidity put options or other liquidity facilities to support the VIE's debt obligations; (ii) enter into derivative contracts to absorb the risks and benefits from the VIE or from the assets held by the VIE; (iii) provide a financial guarantee that covers assets held or liabilities issued by a VIE; (iv) sponsor the VIE in that we design, organize and structure the transaction; and (v) 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, 2016 and December 31, 2015 which are consolidated on our balance sheet. Assets and liabilities exclude intercompany balances that eliminate on consolidation.

	June 30, 2016		December 31, 2015	
	Consolidated Assets	Consolidated Liabilities	Consolidated Assets	Consolidated Liabilities
	(in millions)			
Low income housing limited liability partnership:				
Other assets	\$ 280	\$ —	\$ 320	\$ —
Long-term debt.....	—	92	—	92
Interest, taxes and other liabilities.....	—	68	—	68
Total	<u>\$ 280</u>	<u>\$ 160</u>	<u>\$ 320</u>	<u>\$ 160</u>

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 is mandatorily redeemable at a future date. 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 are the primary beneficiary of the LLP due to the nature of our continuing involvement and, as a result, consolidate the LLP and report the equity interest issued to the third party investor in other liabilities 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.

As a practical expedient, 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.

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 involvements in these VIEs, at June 30, 2016 and December 31, 2015:

	Variable Interests Held Classified as Assets	Variable Interests Held Classified as Liabilities	Total Assets in Unconsolidated VIEs	Maximum Exposure to Loss
(in millions)				
At June 30, 2016				
Asset-backed commercial paper conduits	\$ 729	\$ —	\$ 13,053	\$ 3,808
Structured note vehicles	2,880	10	5,901	5,890
Limited partnership investments	266	192	868	266
Refinancing SPE	983	—	1,252	984
Total.....	<u>\$ 4,858</u>	<u>\$ 202</u>	<u>\$ 21,074</u>	<u>\$ 10,948</u>
At December 31, 2015				
Asset-backed commercial paper conduits	\$ 58	\$ —	\$ 15,183	\$ 3,362
Structured note vehicles	2,870	8	5,888	5,879
Limited partnership investments	138	121	302	138
Refinancing SPE ⁽¹⁾	1,181	—	1,252	1,181
Total.....	<u>\$ 4,247</u>	<u>\$ 129</u>	<u>\$ 22,625</u>	<u>\$ 10,560</u>

⁽¹⁾ During 2016, we revised the above table to include a refinancing SPE which was an unconsolidated VIE at December 31, 2015 as discussed further below. This revision did not have any impact on our financial position or results of operations.

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

Asset-backed commercial paper ("ABCP") conduits We provide liquidity facilities to Regency, a multi-seller ABCP conduit consolidated by an HSBC affiliate. Customers sell financial assets, such as trade receivables, to Regency, which funds the purchases by issuing short-term highly-rated commercial paper collateralized by the assets acquired. We, along with other financial institutions, provide liquidity facilities to Regency in the form of lines of credit or asset purchase commitments. These liquidity facilities support transactions associated with a specific seller of assets to the conduit and we would only be required to provide support in the event of certain triggers associated with those transactions and assets. Our obligations are generally pari passu with those of other institutions that also provide liquidity support to the same conduit or for the same transactions. We do not provide any program-wide credit enhancements to ABCP conduits.

Each seller of assets to an ABCP conduit typically provides credit enhancements in the form of asset overcollateralization and, therefore, bears the risk of first loss related to the specific assets transferred. We do not transfer our own assets to Regency. We also do not provide the majority of the liquidity facilities to Regency. We have no ownership interests in, perform no administrative duties for, and do not service any of the assets held by Regency. We are not the primary beneficiary and do not consolidate Regency. Credit risk related to the liquidity facilities provided is managed by subjecting these facilities to our normal underwriting and risk management processes. The \$3,808 million maximum exposure to loss presented in the table above represents the maximum amount of loans and asset purchases we could be required to fund under the liquidity facilities. The maximum loss exposure is estimated assuming the facilities are fully drawn and the underlying collateralized assets are in default with zero recovery value.

Structured note vehicles We provide derivatives, such as interest rate and currency swaps, to structured note vehicles and, in certain instances, invest in the vehicles' debt instruments. We hold variable interests in these structured note vehicles in the form of total return swaps under which we take on the risks and benefits of the structured notes they issue. The same risks and benefits are passed on to third party entities through back-end total return swaps. We earn a spread for facilitating the transaction. Since we do not have the power to direct the activities of the VIE and are not the primary beneficiary, we do not consolidate them. Our maximum exposure to loss is the notional amount of the derivatives wrapping the structured notes. The maximum exposure to loss will occur in the unlikely scenario where the value of the structured notes is reduced to zero and, at the same time, the counterparty of the back-end swap defaults with zero recovery. In certain instances, we hold credit default swaps with the structured note vehicles under which we receive credit protection on specified reference assets in exchange for the payment of a premium. Through these derivatives, the vehicles assume the credit risk associated with the reference assets which are then passed on to the

holders of the debt instruments they issue. Because they create rather than absorb variability, the credit default swaps we hold are not considered variable interests. We record all investments in, and derivative contracts with, unconsolidated structured note vehicles at fair value on our consolidated balance sheet.

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 also 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.

Refinancing SPE We organized and provided loans to a SPE to purchase a senior secured financing facility from the originator designed to finance a third party borrower's acquisition of a portfolio of commercial real estate loans in Mexico. Interest and principal repayments of the prepayable financing facility are dependent on and are secured by the rental cash flows generated from the underlying commercial real estate properties. The financing facility contains additional credit enhancements, including a 15 percent equity subordination in the borrower's capital structure and a financial guarantee over 25 percent of the outstanding balance provided by the borrower's parent.

The SPE is a refinancing vehicle designed to secure term financing from external investors to repay our loans. The loans issued to the SPE are supported by the financing facility and the security interests in the commercial real estate loans and the credit enhancements. The refinancing vehicle is a VIE because it does not have sufficient equity investment at risk to permit the entity to finance the activities without additional subordination provided by any parties. We have a variable interest in the VIE through our ownership of the loans. In view of the purpose and design of the SPE, the overall funding structure, the additional credit enhancements and the risks inherent in the VIE, we concluded the investors absorb an insignificant amount of expected loss and/or benefit in the VIE. Rather, the borrower and its parent take on the risks and benefits in the VIE through the credit enhancements provided to the holder of the financing facility. In addition, the investors do not have the power to direct the activities that most significantly impact the economic performance of the VIE and, therefore, we are not the primary beneficiary of the VIE. The maximum exposure to loss shown in the table above represents our investment in the loans without consideration of any recovery benefits from the credit enhancements.

Beneficial interests issued by third-party sponsored securitization entities We hold certain beneficial interests such as mortgage-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 3, "Securities," and Note 19, "Fair Value Measurements," and, therefore, are not disclosed in this note to avoid redundancy.

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, 2016 and December 31, 2015. Following the table is a description of the various arrangements.

	June 30, 2016		December 31, 2015	
	Carrying Value	Notional / Maximum Exposure to Loss	Carrying Value	Notional / Maximum Exposure to Loss
	(in millions)			
Credit derivatives ⁽¹⁾⁽⁴⁾	\$ (1,377)	\$ 77,141	\$ (2,621)	\$ 91,435
Financial standby letters of credit, net of participations ⁽²⁾⁽³⁾	—	5,584	—	5,842
Performance standby letters of credit, net of participations ⁽²⁾⁽³⁾	—	2,853	—	3,008
Liquidity asset purchase agreements ⁽³⁾	—	3,808	—	3,362
Total	\$ (1,377)	\$ 89,386	\$ (2,621)	\$ 103,647

⁽¹⁾ Includes \$32,683 million and \$44,130 million of notional issued for the benefit of HSBC affiliates at June 30, 2016 and December 31, 2015, respectively.

⁽²⁾ Includes \$1,142 million and \$910 million issued for the benefit of HSBC affiliates at June 30, 2016 and December 31, 2015, respectively.

⁽³⁾ For standby letters of credit and liquidity asset purchase agreements, maximum loss represents losses to be recognized assuming the letter of credit and liquidity facilities have been fully drawn and the obligors have defaulted with zero recovery.

⁽⁴⁾ For credit derivatives, the maximum loss is represented by the notional amounts without consideration of mitigating effects from collateral or recourse arrangements.

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.

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 sell protection position at any time. The following table summarizes our net credit derivative positions at June 30, 2016 and December 31, 2015:

	June 30, 2016		December 31, 2015	
	Carrying / Fair Value	Notional	Carrying / Fair Value	Notional
	(in millions)			
Sell-protection credit derivative positions	\$ (1,377)	\$ 77,141	\$ (2,621)	\$ 91,435
Buy-protection credit derivative positions	1,424	84,110	2,789	96,635
Net position ⁽¹⁾	\$ 47	\$ 6,969	\$ 168	\$ 5,200

⁽¹⁾ 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 customer and is a guarantee that the customer 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 customer 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 customer 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 customer's contractual obligation is of a financial nature, such as the repayment of a loan or debt instrument. At June 30, 2016, the total amount of outstanding financial standby letters of credit (net of participations) and performance guarantees (net of participations) were \$5,584 million and \$2,853 million, respectively. At December 31, 2015, the total amount of outstanding financial standby letters of credit (net of participations) and performance guarantees (net of participations) were \$5,842 million and \$3,008 million, respectively.

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 customer's credit evaluation and the nature of any collateral. Included in other liabilities are deferred fees on standby letters of credit amounting to \$52 million and \$54 million at June 30, 2016 and December 31, 2015, respectively. Also included in other liabilities is an allowance for credit losses on unfunded standby letters of credit of \$50 million and \$19 million at June 30, 2016 and December 31, 2015, 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, 2016 as an indicative proxy of payment risk:

Notional/Contractual Amounts	Average Life (in years)	Credit Ratings of the Obligor or the Transactions		
		Investment Grade	Non-Investment Grade	Total
(dollars are in millions)				
Sell-protection Credit Derivatives ⁽¹⁾				
Single name credit default swaps ("CDS").....	2.3	\$ 38,626	\$ 18,569	\$ 57,195
Structured CDS.....	0.9	4,834	497	5,331
Index credit derivatives	3.5	4,091	7,348	11,439
Total return swaps.....	2.4	2,836	340	3,176
Subtotal.....		50,387	26,754	77,141
Standby Letters of Credit ⁽²⁾	1.1	5,581	2,856	8,437
Total.....		\$ 55,968	\$ 29,610	\$ 85,578

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

⁽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.

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 customer. The credit grades are assigned and used for managing risk and determining level of credit exposure appetite based on the customer'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 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

Liquidity asset purchase agreements We provide liquidity facilities to Regency, a multi-seller ABCP conduit consolidated by an HSBC affiliate. Regency finances the purchase of individual assets by issuing commercial paper to third party investors. Each liquidity facility is transaction specific and has a maximum limit. Pursuant to the liquidity agreements, we are obligated, subject to certain limitations, to advance funds in an amount not to exceed the face value of the commercial paper in the event Regency

is unable or unwilling to refinance its commercial paper. A liquidity asset purchase agreement is economically a conditional written put option issued to the conduit where the exercise price is the face value of the commercial paper. At June 30, 2016 and December 31, 2015 we had issued \$3,808 million and \$3,362 million, respectively, of liquidity facilities to provide liquidity support to ABCP conduits. See Note 17, "Variable Interest Entities," for further information.

Clearinghouses and exchanges We are a member of various exchanges and clearinghouses 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 clearinghouse may be required to contribute to a guaranty fund to backstop members' obligations to the clearinghouse. 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 clearinghouse. Our guarantee obligations would arise only if the exchange or clearinghouse had exhausted its resources. Any potential contingent liability under these membership agreements cannot be estimated.

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 27, "Litigation and Regulatory Matters," in our 2015 Form 10-K and in Note 20, "Litigation and Regulatory Matters," in our Form 10-Q for the three month period ended March 31, 2016 for additional discussion of related exposure. There have been no significant changes with regards to this exposure since March 31, 2016. The outstanding principal balance on these loans was approximately \$4.9 billion and \$5.2 billion at June 30, 2016 and December 31, 2015, respectively.

Mortgage Loan Repurchase Obligations Historically, we originated and sold mortgage loans, primarily to government sponsored entities, and provided 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 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. As a result of settlements with FNMA and FHLMC during 2013 and 2014, the repurchase exposure associated with these sales has been substantially resolved. In addition, with the conversion of our mortgage processing and servicing operations to PHH Mortgage in 2013, new agency eligible originations are sold directly to PHH Mortgage and PHH Mortgage is responsible for origination representations and warranties for all loans purchased.

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 totaled \$14 million and \$5 million at June 30, 2016 and December 31, 2015, respectively.

The following table summarizes the change in our estimated repurchase liability during the three and six months ended June 30, 2016 and 2015 for obligations arising from the breach of representations and warranties associated with mortgage loans sold:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Balance at beginning of period	\$ 16	\$ 23	\$ 17	\$ 27
Increase (decrease) in liability recorded through earnings	(3)	(2)	(3)	(5)
Realized losses	—	—	(1)	(1)
Balance at end of period	<u>\$ 13</u>	<u>\$ 21</u>	<u>\$ 13</u>	<u>\$ 21</u>

Our remaining repurchase liability of \$13 million at June 30, 2016 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 \$25 million at June 30, 2016. This estimated range of reasonably possible losses was determined based upon modifying the assumptions utilized in our best estimate of probable losses to reflect what we believe to be reasonably possible adverse assumptions.

Pledged Assets

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

	June 30, 2016	December 31, 2015
	(in millions)	
Interest bearing deposits with banks	\$ 1,275	\$ 676
Trading assets ⁽¹⁾	2,959	3,802
Securities available-for-sale ⁽²⁾	12,628	11,092
Securities held-to-maturity	4,089	3,293
Loans ⁽³⁾	18,325	17,880
Other assets ⁽⁴⁾	1,419	1,765
Total	\$ 40,695	\$ 38,508

⁽¹⁾ Trading assets are primarily pledged against liabilities associated with repurchase agreements.

⁽²⁾ Securities available-for-sale 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 Federal Home Loan Bank of New York ("FHLB") and the Federal Reserve Bank of New York.

⁽³⁾ Loans are primarily residential mortgage loans pledged against current and potential borrowings from the FHLB and the Federal Reserve Bank of New York.

⁽⁴⁾ Other assets represent cash on deposit with non-banks related to derivative collateral support agreements.

Debt securities pledged as collateral 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 \$1,254 million and \$1,000 million at June 30, 2016 and December 31, 2015, respectively. The fair value of trading assets that could be sold or repledged was \$2,959 million and \$3,797 million at June 30, 2016 and December 31, 2015, respectively.

The fair value of collateral we accepted under security resale agreements but not reported on the consolidated balance sheet was \$36,014 million and \$25,058 million at June 30, 2016 and December 31, 2015, respectively, discussed further below. Of this collateral, \$30,314 million and \$19,558 million could be sold or repledged at June 30, 2016 and December 31, 2015, respectively, of which \$1,104 million and \$3,400 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 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, 2016 and December 31, 2015:

	Gross Amounts Recognized	Gross Amounts Offset in the Balance Sheet ⁽¹⁾	Net Amounts Presented in the Balance Sheet	Gross Amounts Not Offset in the Balance Sheet		Net Amount ⁽³⁾
				Financial Instruments ⁽²⁾	Cash Collateral Received / Pledged	
(in millions)						
At June 30, 2016:						
Assets:						
Securities purchased under resale agreements.....	\$ 36,014	\$ 1,348	\$ 34,666	\$ 34,641	\$ —	\$ 25
Liabilities:						
Securities sold under repurchase agreements.....	\$ 5,317	\$ 1,348	\$ 3,969	\$ 3,969	\$ —	\$ —
At December 31, 2015:						
Assets:						
Securities purchased under resale agreements.....	\$ 25,058	\$ 5,211	\$ 19,847	\$ 19,845	\$ —	\$ 2
Liabilities:						
Securities sold under repurchase agreements.....	\$ 8,197	\$ 5,211	\$ 2,986	\$ 2,954	\$ —	\$ 32

⁽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.

⁽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.

The following table provides the class of collateral pledged and remaining contractual maturity of repurchase agreements accounted for as secured borrowings at June 30, 2016 and December 31, 2015:

	Overnight and Continuous	Up to 30 Days	31 to 90 Days	91 Days to One Year	Greater Than One Year	Total
(in millions)						
At June 30, 2016:						
U.S. Treasury, U.S. Government agency and sponsored entity securities.....	\$ 1,280	\$ 361	\$ —	\$ 95	\$ 3,581	\$ 5,317
At December 31, 2015:						
U.S. Treasury, U.S. Government agency and sponsored entity securities.....	\$ 1,764	\$ 3,457	\$ —	\$ —	\$ 2,976	\$ 8,197

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 literature 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 risk adjustment - The credit risk 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.

Valuation of uncollateralized derivatives - During 2014, we adopted a funding fair value adjustment ("FFVA") to reflect the estimated present value of the future market funding cost or benefit associated with funding uncollateralized derivative exposure at rates other than the Overnight Indexed Swap ("OIS") rate. 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. Transfers between leveling categories are assessed, determined and recognized at the end of each reporting period.

Valuation Control Framework We have established a control framework which is designed to ensure that fair values are either determined or validated by a function independent of the risk-taker. To that end, the ultimate responsibility for the determination of fair values rests with Finance. Finance has established an independent price validation process to ensure that the assets and liabilities measured at fair value are properly stated.

A valuation committee, chaired by the Head of Business Finance of GB&M, meets monthly to review, monitor and discuss significant valuation matters arising from credit and market risks. The committee is responsible for reviewing and approving valuation policies and procedures including any valuation adjustments pertaining to, among other things, independent price verification, market liquidity, unobservable inputs, model uncertainty and counterparty credit risk. All valuation models are reviewed by the valuation committee in terms of model development, enhancements and performance. All models are independently reviewed by the Markets Independent Model Review function and applicable valuation model recommendations are reported to and discussed with the valuation committee. Significant valuation risks identified in business activities are corroborated and addressed by the committee members and, where applicable, are escalated to the Chief Financial Officer of HUSI and the Audit Committee of the Board of Directors.

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. Any significant valuation adjustments are reported to and discussed with the valuation committee.

Fair Value of Financial Instruments The fair value estimates, methods and assumptions set forth below for our financial instruments, including those financial instruments carried at cost, 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 following table summarizes the carrying value and estimated fair value of our financial instruments at June 30, 2016 and December 31, 2015:

June 30, 2016	Carrying Value	Fair Value	Level 1	Level 2	Level 3
	(in millions)				
Financial assets:					
Short-term financial assets	\$ 14,739	\$ 14,739	\$ 915	\$ 13,799	\$ 25
Federal funds sold and securities purchased under agreements to resell	33,884	33,884	—	33,884	—
Federal funds sold and securities purchased under agreements to resell designated under fair value option.....	782	782	—	782	—
Non-derivative trading assets	13,989	13,989	3,471	7,438	3,080
Derivatives.....	5,189	5,189	7	5,157	25
Securities	51,639	52,025	25,898	26,127	—
Commercial loans, net of allowance for credit losses	58,590	59,625	—	—	59,625
Commercial loans designated under fair value option and held for sale	867	867	—	867	—
Commercial loans held for sale	34	34	—	34	—
Consumer loans, net of allowance for credit losses	20,157	19,323	—	—	19,323
Consumer loans held for sale:					
Residential mortgages.....	391	392	—	17	375
Other consumer.....	77	77	—	—	77
Financial liabilities:					
Short-term financial liabilities	\$ 4,725	\$ 4,799	\$ —	\$ 4,774	\$ 25
Deposits:					
Without fixed maturities	113,769	113,769	—	113,769	—
Fixed maturities	11,765	11,763	—	11,763	—
Deposits designated under fair value option	7,285	7,285	—	5,608	1,677
Non-derivative trading liabilities.....	1,819	1,819	929	890	—
Derivatives.....	9,286	9,286	28	9,233	25
Short-term borrowings designated under fair value option	2,676	2,676	—	2,676	—
Long-term debt	25,539	26,201	—	26,201	—
Long-term debt designated under fair value option	9,239	9,239	—	8,666	573

December 31, 2015	Carrying Value	Fair Value	Level 1	Level 2	Level 3
(in millions)					
Financial assets:					
Short-term financial assets	\$ 8,494	\$ 8,494	\$ 968	\$ 7,478	\$ 48
Federal funds sold and securities purchased under agreements to resell	19,847	19,847	—	19,847	—
Non-derivative trading assets	11,935	11,935	3,088	5,756	3,091
Derivatives.....	5,614	5,614	5	5,579	30
Securities	49,797	49,938	21,924	28,014	—
Commercial loans, net of allowance for credit losses	61,674	62,417	—	—	62,417
Commercial loans designated under fair value option and held for sale	151	151	—	151	—
Commercial loans held for sale	1,944	1,958	—	55	1,903
Consumer loans, net of allowance for credit losses	20,331	19,185	—	—	19,185
Consumer loans held for sale:					
Residential mortgages.....	11	11	—	7	4
Other consumer.....	79	79	—	—	79
Financial liabilities:					
Short-term financial liabilities	\$ 3,082	\$ 3,124	\$ —	\$ 3,076	\$ 48
Deposits:					
Without fixed maturities	101,146	101,146	—	101,146	—
Fixed maturities	10,514	10,508	—	10,508	—
Deposits designated under fair value option	6,919	6,919	—	5,052	1,867
Non-derivative trading liabilities.....	1,049	1,049	363	686	—
Derivatives.....	6,993	6,993	9	6,957	27
Short-term borrowings designated under fair value option.....	1,976	1,976	—	1,976	—
Long-term debt	24,338	24,874	—	24,874	—
Long-term debt designated under fair value option	9,171	9,171	—	8,425	746

Loan values presented in the table above were determined using the Fair Value Framework for measuring fair value, which is based on our best estimate of the amount within a range of value we believe would be received in a sale as of the balance sheet date (i.e. exit price). The secondary market demand and estimated value for our residential mortgage loans has been heavily influenced by economic conditions, including house price depreciation, elevated unemployment, changes in consumer behavior, changes in discount rates and the lack of financing options available to support the purchase of loans. For certain consumer loans, investors incorporate numerous assumptions in predicting cash flows, such as future interest rates, higher charge-off levels, slower voluntary prepayment speeds, different default and loss curves and estimated collateral values than we, as the servicer of these loans, believe will ultimately be the case. The investor's valuation process reflects this difference in overall cost of capital assumptions as well as the potential volatility in the underlying cash flow assumptions, the combination of which may yield a significant pricing discount from our intrinsic value. The estimated fair values at June 30, 2016 and December 31, 2015 reflect these market conditions. The increase in the relative fair value of our residential mortgage loans since December 31, 2015 reflects the conditions in the housing industry which have continued to show improvement in 2016 due to improvements in property values as well as lower required market yields and increased investor demand for these types of loans.

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, 2016 and December 31, 2015, and indicates the fair value hierarchy of the valuation techniques utilized to determine such fair value:

June 30, 2016	Fair Value Measurements on a Recurring Basis					
	Level 1	Level 2	Level 3	Gross Balance	Netting ⁽¹⁾	Net Balance
	(in millions)					
Assets:						
Federal funds sold and securities purchased under agreements to resell	\$ —	\$ 782	\$ —	\$ 782	\$ —	\$ 782
Trading Securities, excluding derivatives:						
U.S. Treasury, U.S. Government agencies and sponsored enterprises.....	3,471	170	—	3,641	—	3,641
Collateralized debt obligations.....	—	—	201	201	—	201
Asset-backed securities:						
Residential mortgages.....	—	100	—	100	—	100
Student Loans.....	—	84	—	84	—	84
Corporate and other domestic debt securities.....	—	1	2,879	2,880	—	2,880
Debt Securities issued by foreign entities:						
Corporate.....	—	41	—	41	—	41
Government-backed.....	—	3,955	—	3,955	—	3,955
Equity securities.....	—	14	—	14	—	14
Precious metals trading.....	—	3,073	—	3,073	—	3,073
Derivatives ⁽²⁾ :						
Interest rate contracts.....	70	52,849	3	52,922	—	52,922
Foreign exchange contracts.....	8	25,202	15	25,225	—	25,225
Equity contracts.....	—	1,625	145	1,770	—	1,770
Precious metals contracts.....	33	746	—	779	—	779
Credit contracts.....	—	2,144	234	2,378	—	2,378
Derivatives netting.....	—	—	—	—	(77,885)	(77,885)
Total derivatives.....	111	82,566	397	83,074	(77,885)	5,189
Securities available-for-sale:						
U.S. Treasury, U.S. Government agencies and sponsored enterprises.....	25,898	11,277	—	37,175	—	37,175
Obligations of U.S. states and political subdivisions.....	—	13	—	13	—	13
Asset-backed securities:						
Commercial mortgages.....	—	6	—	6	—	6
Home equity.....	—	67	—	67	—	67
Other.....	—	493	—	493	—	493
Debt Securities issued by foreign entities.....	—	511	—	511	—	511
Equity securities.....	—	159	—	159	—	159
Loans ⁽³⁾	—	867	—	867	—	867
Mortgage servicing rights ⁽⁴⁾	—	—	104	104	—	104
Total assets.....	\$ 29,480	\$ 104,179	\$ 3,581	\$ 137,240	\$ (77,885)	\$ 59,355
Liabilities:						
Domestic deposits ⁽⁵⁾	\$ —	\$ 5,608	\$ 1,677	\$ 7,285	\$ —	\$ 7,285
Trading liabilities, excluding derivatives.....	929	890	—	1,819	—	1,819
Derivatives ⁽²⁾ :						
Interest rate contracts.....	64	54,575	2	54,641	—	54,641
Foreign exchange contracts.....	47	23,708	15	23,770	—	23,770
Equity contracts.....	—	1,507	160	1,667	—	1,667
Precious metals contracts.....	142	835	—	977	—	977
Credit contracts.....	—	2,346	46	2,392	—	2,392
Derivatives netting.....	—	—	—	—	(74,161)	(74,161)
Total derivatives.....	253	82,971	223	83,447	(74,161)	9,286
Short-term borrowings ⁽⁵⁾	—	2,676	—	2,676	—	2,676
Long-term debt ⁽⁵⁾	—	8,666	573	9,239	—	9,239
Total liabilities.....	\$ 1,182	\$ 100,811	\$ 2,473	\$ 104,466	\$ (74,161)	\$ 30,305

December 31, 2015	Fair Value Measurements on a Recurring Basis					
	Level 1	Level 2	Level 3	Gross Balance	Netting ⁽¹⁾	Net Balance
	(in millions)					
Assets:						
Trading Securities, excluding derivatives:						
U.S. Treasury, U.S. Government agencies and sponsored enterprises.....	\$ 3,088	\$ 167	\$ —	\$ 3,255	\$ —	\$ 3,255
Obligations of U. S. States and political subdivisions	—	559	—	559	—	559
Collateralized debt obligations	—	—	221	221	—	221
Asset-backed securities:						
Residential mortgages	—	114	—	114	—	114
Student loans	—	89	—	89	—	89
Corporate and other domestic debt securities.....	—	—	2,870	2,870	—	2,870
Debt Securities issued by foreign entities:						
Corporate	—	55	—	55	—	55
Government-backed	—	3,974	—	3,974	—	3,974
Equity securities	—	18	—	18	—	18
Precious metals trading	—	780	—	780	—	780
Derivatives ⁽²⁾ :						
Interest rate contracts.....	26	35,241	2	35,269	—	35,269
Foreign exchange contracts	—	24,161	16	24,177	—	24,177
Equity contracts	—	1,687	119	1,806	—	1,806
Precious metals contracts	38	891	—	929	—	929
Credit contracts.....	—	3,676	209	3,885	—	3,885
Derivatives netting	—	—	—	—	(60,452)	(60,452)
Total derivatives.....	64	65,656	346	66,066	(60,452)	5,614
Securities available-for-sale:						
U.S. Treasury, U.S. Government agencies and sponsored enterprises.....	21,924	12,621	—	34,545	—	34,545
Obligations of U.S. states and political subdivisions	—	348	—	348	—	348
Asset-backed securities:						
Commercial mortgages.....	—	9	—	9	—	9
Home equity	—	75	—	75	—	75
Other.....	—	89	—	89	—	89
Debt Securities issued by foreign entities	—	546	—	546	—	546
Equity securities	—	161	—	161	—	161
Loans ⁽³⁾	—	151	—	151	—	151
Mortgage servicing rights ⁽⁴⁾	—	—	140	140	—	140
Total assets.....	<u>\$ 25,076</u>	<u>\$ 85,412</u>	<u>\$ 3,577</u>	<u>\$ 114,065</u>	<u>\$ (60,452)</u>	<u>\$ 53,613</u>
Liabilities:						
Domestic deposits ⁽⁵⁾	\$ —	\$ 5,052	\$ 1,867	\$ 6,919	\$ —	\$ 6,919
Trading liabilities, excluding derivatives	363	686	—	1,049	—	1,049
Derivatives ⁽²⁾ :						
Interest rate contracts.....	28	35,432	1	35,461	—	35,461
Foreign exchange contracts	15	22,405	16	22,436	—	22,436
Equity contracts	—	1,560	202	1,762	—	1,762
Precious metals contracts	39	552	—	591	—	591
Credit contracts.....	—	3,753	30	3,783	—	3,783
Derivatives netting	—	—	—	—	(57,040)	(57,040)
Total derivatives.....	82	63,702	249	64,033	(57,040)	6,993
Short-term borrowings ⁽⁵⁾	—	1,976	—	1,976	—	1,976
Long-term debt ⁽⁵⁾	—	8,425	746	9,171	—	9,171
Total liabilities.....	<u>\$ 445</u>	<u>\$ 79,841</u>	<u>\$ 2,862</u>	<u>\$ 83,148</u>	<u>\$ (57,040)</u>	<u>\$ 26,108</u>

⁽¹⁾ Represents counterparty and cash collateral netting which allow the offsetting of amounts relating to certain contracts if certain conditions are met.

⁽²⁾ Includes trading derivative assets of \$4,823 million and \$5,150 million and trading derivative liabilities of \$8,873 million and \$6,406 million at June 30, 2016 and December 31, 2015, respectively, as well as derivatives held for hedging and commitments accounted for as derivatives.

⁽³⁾ Includes certain commercial loans held for sale which we have elected to apply the fair value option. See Note 6, "Loans Held for Sale," for further information.

(4) See Note 7, "Intangible Assets," and Note 9, "Other Assets Held for Sale," for additional information.

(5) See Note 11, "Fair Value Option," for additional information.

Transfers between levels of the fair value hierarchy are recognized at the end of each reporting period.

Transfers between Level 1 and Level 2 measurements There were no transfers between Levels 1 and 2 during the three and six months ended June 30, 2016 and 2015.

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, 2016 and 2015. 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.

	Apr. 1, 2016	Total Gains and (Losses) Included in ⁽¹⁾					Transfers Into Level 3	Transfers Out of Level 3	Jun. 30, 2016	Current Period Unrealized Gains (Losses)
		Trading Revenue (Loss)	Other Revenue	Purch- ases	Issu- ances	Settle- ments				
(in millions)										
Assets:										
Trading assets, excluding derivatives:										
Collateralized debt obligations.....	\$ 210	\$ (3)	\$ —	\$ —	\$ —	\$ (6)	\$ —	\$ —	\$ 201	\$ (5)
Corporate and other domestic debt securities....	2,873	1	—	5	—	—	—	—	2,879	1
Derivatives, net ⁽²⁾ :										
Interest rate contracts.....	1	—	—	—	—	—	—	—	1	—
Foreign exchange contracts.....	—	—	—	—	—	—	—	—	—	—
Equity contracts.....	(55)	31	—	—	—	8	—	1	(15)	24
Credit contracts.....	177	14	—	—	—	(3)	—	—	188	11
Mortgage servicing rights ⁽³⁾	117	—	(8)	—	—	(5)	—	—	104	(8)
Total assets.....	<u>\$ 3,323</u>	<u>\$ 43</u>	<u>\$ (8)</u>	<u>\$ 5</u>	<u>\$ —</u>	<u>\$ (6)</u>	<u>\$ —</u>	<u>\$ 1</u>	<u>\$ 3,358</u>	<u>\$ 23</u>
Liabilities:										
Domestic deposits ⁽⁴⁾	\$ (1,849)	\$ —	\$ (21)	\$ —	\$ (100)	\$ 218	\$ (7)	\$ 82	\$ (1,677)	\$ (17)
Long-term debt ⁽⁴⁾	(646)	—	(18)	—	(54)	84	—	61	(573)	(13)
Total liabilities.....	<u>\$ (2,495)</u>	<u>\$ —</u>	<u>\$ (39)</u>	<u>\$ —</u>	<u>\$ (154)</u>	<u>\$ 302</u>	<u>\$ (7)</u>	<u>\$ 143</u>	<u>\$ (2,250)</u>	<u>\$ (30)</u>

	Jan. 1, 2016	Total Gains and (Losses) Included in ⁽¹⁾					Transfers Into Level 3	Transfers Out of Level 3	Jun. 30, 2016	Current Period Unrealized Gains (Losses)
		Trading Revenue (Loss)	Other Revenue	Purch- ases	Issu- ances	Settle- ments				
(in millions)										
Assets:										
Trading assets, excluding derivatives:										
Collateralized debt obligations	\$ 221	\$ (8)	\$ —	\$ —	\$ —	\$ (12)	\$ —	\$ —	\$ 201	\$ (11)
Corporate and other domestic debt securities.....	2,870	(1)	—	10	—	—	—	—	2,879	(1)
Derivatives, net ⁽²⁾ :										
Interest rate contracts.....	1	—	—	—	—	—	—	—	1	—
Foreign exchange contracts.....	—	—	—	—	—	—	—	—	—	—
Equity contracts.....	(83)	55	—	—	—	12	1	—	(15)	48
Credit contracts.....	179	16	—	—	—	(7)	—	—	188	8
Mortgage servicing rights ⁽³⁾ ..	140	—	(24)	—	—	(12)	—	—	104	(24)
Total assets.....	<u>\$ 3,328</u>	<u>\$ 62</u>	<u>\$ (24)</u>	<u>\$ 10</u>	<u>\$ —</u>	<u>\$ (19)</u>	<u>\$ 1</u>	<u>\$ —</u>	<u>\$ 3,358</u>	<u>\$ 20</u>
Liabilities:										
Domestic deposits ⁽⁴⁾	\$ (1,867)	\$ —	\$ (77)	\$ —	\$ (164)	\$ 305	\$ (15)	\$ 141	\$ (1,677)	\$ (60)
Long-term debt ⁽⁴⁾	(746)	—	8	—	(129)	149	—	145	(573)	3
Total liabilities.....	<u>\$ (2,613)</u>	<u>\$ —</u>	<u>\$ (69)</u>	<u>\$ —</u>	<u>\$ (293)</u>	<u>\$ 454</u>	<u>\$ (15)</u>	<u>\$ 286</u>	<u>\$ (2,250)</u>	<u>\$ (57)</u>

	Apr. 1, 2015	Total Gains and (Losses) Included in ⁽¹⁾					Transfers Into Level 3	Transfers Out of Level 3	Jun. 30, 2015	Current Period Unrealized Gains (Losses)
		Trading Revenue (Loss)	Other Revenue	Purch- ases	Issu- ances	Settle- ments				
(in millions)										
Assets:										
Trading assets, excluding derivatives:										
Collateralized debt obligations.....	\$ 254	\$ 3	\$ —	\$ —	\$ —	\$ (17)	\$ —	\$ —	\$ 240	\$ —
Corporate and other domestic debt securities....	2,848	—	—	7	—	—	—	—	2,855	—
Derivatives, net ⁽²⁾ :										
Interest rate contracts	20	(20)	1	—	—	—	—	—	1	1
Foreign exchange contracts	—	—	—	—	—	—	—	—	—	—
Equity contracts	43	(27)	—	—	—	(27)	—	1	(10)	(34)
Credit contracts	192	(10)	—	—	—	(3)	—	—	179	(13)
Mortgage servicing rights ⁽³⁾	140	—	19	—	—	(1)	—	—	158	21
Total assets.....	<u>\$ 3,497</u>	<u>\$ (54)</u>	<u>\$ 20</u>	<u>\$ 7</u>	<u>\$ —</u>	<u>\$ (48)</u>	<u>\$ —</u>	<u>\$ 1</u>	<u>\$ 3,423</u>	<u>\$ (25)</u>
Liabilities:										
Domestic deposits ⁽⁴⁾	\$ (1,926)	\$ —	\$ 14	\$ —	\$ (95)	\$ 134	\$ (22)	\$ 78	\$ (1,817)	\$ 19
Long-term debt ⁽⁴⁾	(642)	—	13	—	(150)	105	—	12	(662)	14
Total liabilities	<u>\$ (2,568)</u>	<u>\$ —</u>	<u>\$ 27</u>	<u>\$ —</u>	<u>\$ (245)</u>	<u>\$ 239</u>	<u>\$ (22)</u>	<u>\$ 90</u>	<u>\$ (2,479)</u>	<u>\$ 33</u>

	Total Gains and (Losses) Included in ⁽¹⁾							Transfers Into Level 3	Transfers Out of Level 3	Jun. 30, 2015	Current Period Unrealized Gains (Losses)
	Jan. 1, 2015	Trading Revenue (Loss)	Other Revenue	Purch- ases	Issu- ances	Settle- ments					
(in millions)											
Assets:											
Trading assets, excluding derivatives:											
Collateralized debt obligations	\$ 253	\$ 12	\$ —	\$ —	\$ —	\$ (25)	\$ —	\$ —	\$ 240	\$ 7	
Corporate and other domestic debt securities.....	2,840	—	—	15	—	—	—	—	2,855	—	
Derivatives, net ⁽²⁾ :											
Interest rate contracts.....	—	—	1	—	—	—	—	—	1	1	
Foreign exchange contracts.....	—	—	—	—	—	—	—	—	—	—	
Equity contracts.....	42	(4)	—	—	—	(48)	—	—	(10)	(22)	
Credit contracts.....	210	(22)	—	—	—	(9)	—	—	179	(53)	
Mortgage servicing rights ⁽³⁾ ..	159	—	8	—	—	(9)	—	—	158	7	
Total assets.....	<u>\$ 3,504</u>	<u>\$ (14)</u>	<u>\$ 9</u>	<u>\$ 15</u>	<u>\$ —</u>	<u>\$ (91)</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 3,423</u>	<u>\$ (60)</u>	
Liabilities:											
Domestic deposits ⁽⁴⁾	\$ (1,968)	\$ —	\$ (5)	\$ —	\$ (184)	\$ 183	\$ (22)	\$ 179	\$ (1,817)	\$ 6	
Long-term debt ⁽⁴⁾	(647)	—	6	—	(237)	184	—	32	(662)	10	
Total liabilities.....	<u>\$ (2,615)</u>	<u>\$ —</u>	<u>\$ 1</u>	<u>\$ —</u>	<u>\$ (421)</u>	<u>\$ 367</u>	<u>\$ (22)</u>	<u>\$ 211</u>	<u>\$ (2,479)</u>	<u>\$ 16</u>	

⁽¹⁾ Includes realized and unrealized gains and losses.

⁽²⁾ Level 3 net derivatives included derivative assets of \$397 million and derivative liabilities of \$223 million at June 30, 2016 and derivative assets of \$387 million and derivative liabilities of \$217 million at June 30, 2015.

⁽³⁾ See Note 7, "Intangible Assets," and Note 9, "Other Assets Held for Sale," for additional information.

⁽⁴⁾ See Note 11, "Fair Value Option," for additional information.

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, 2016 and December 31, 2015:

June 30, 2016

Financial Instrument Type	Fair Value (in millions)	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs
Collateralized debt obligations	201	Broker quotes or consensus pricing and, where applicable, discounted cash flows	Prepayment rates	1% - 6%
			Conditional default rates	3% - 7%
			Loss severity rates	90% - 99%
Corporate and other domestic debt securities	2,879	Discounted cash flows	Spread volatility on collateral assets	2% - 4%
			Correlation between insurance claim shortfall and collateral value	80%
Interest rate derivative contracts	1	Market comparable adjusted for probability to fund	Probability to fund for rate lock commitments	38% - 100%
Foreign exchange derivative contracts ⁽¹⁾	—	Option pricing model	Implied volatility of currency pairs	12% - 18%
Equity derivative contracts ⁽¹⁾	(15)	Option pricing model	Equity / Equity Index volatility	12% - 46%
			Equity / Equity and Equity / Index correlation	47% - 58%
			Equity dividend yields	0% - 17%
Credit derivative contracts	188	Option pricing model	Issuer by issuer correlation of defaults	82% - 83%
Mortgage servicing rights	104	Option adjusted discounted cash flows	Constant prepayment rates	4% - 28%
			Option adjusted spread	8% - 14%
			Estimated annualized costs to service	\$87 - \$329 per account
Domestic deposits (structured deposits) ⁽¹⁾⁽²⁾	(1,677)	Option adjusted discounted cash flows	Implied volatility of currency pairs	12% - 18%
			Equity / Equity Index volatility	12% - 46%
			Equity / Equity and Equity / Index correlation	47% - 58%
Long-term debt (structured notes) ⁽¹⁾⁽²⁾	(573)	Option adjusted discounted cash flows	Implied volatility of currency pairs	12% - 18%
			Equity / Equity Index volatility	12% - 46%
			Equity / Equity and Equity / Index correlation	47% - 58%

December 31, 2015

Financial Instrument Type	Fair Value (in millions)	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs
Collateralized debt obligations	221	Broker quotes or consensus pricing and, where applicable, discounted cash flows	Prepayment rates	1% - 6%
			Conditional default rates	3% - 7%
			Loss severity rates	90% - 99%
Corporate and other domestic debt securities	2,870	Discounted cash flows	Spread volatility on collateral assets	2% - 4%
			Correlation between insurance claim shortfall and collateral value	80%
Interest rate derivative contracts	1	Market comparable adjusted for probability to fund	Probability to fund for rate lock commitments	18% - 100%
Foreign exchange derivative contracts ⁽¹⁾	—	Option pricing model	Implied volatility of currency pairs	18% - 22%
Equity derivative contracts ⁽¹⁾	(83)	Option pricing model	Equity / Equity Index volatility	14% - 72%
			Equity / Equity and Equity / Index correlation	48% - 59%
			Equity dividend yields	0% - 18%
Credit derivative contracts	179	Option pricing model	Correlation of defaults of a portfolio of reference credit names	44% - 47%
			Issuer by issuer correlation of defaults	82% - 83%
Mortgage servicing rights	140	Option adjusted discounted cash flows	Constant prepayment rates	11% - 50%
			Option adjusted spread	8% - 14%
			Estimated annualized costs to service	\$87 - \$329 per account
Domestic deposits (structured deposits) ⁽¹⁾⁽²⁾	(1,867)	Option adjusted discounted cash flows	Implied volatility of currency pairs	18% - 22%
			Equity / Equity Index volatility	14% - 72%
			Equity / Equity and Equity / Index correlation	48% - 59%
Long-term debt (structured notes) ⁽¹⁾⁽²⁾	(746)	Option adjusted discounted cash flows	Implied volatility of currency pairs	18% - 22%
			Equity / Equity Index volatility	14% - 72%
			Equity / Equity and Equity / Index correlation	48% - 59%

(1) We are the client-facing entity and 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 neutral. The corresponding intra-group derivatives are presented as equity derivatives and foreign exchange derivatives in the table.

(2) Structured deposits and structured notes contain embedded derivative features whose fair value measurements contain significant Level 3 inputs.

Significant Unobservable Inputs for Recurring Fair Value Measurements

Collateralized Debt Obligations ("CDOs")

- **Prepayment rate** - The rate at which borrowers pay off the mortgage loans early. The prepayment rate is affected by a number of factors including the location of the mortgage collateral, the interest rate type of the mortgage loans, borrowers' credit and sensitivity to interest rate movement. The prepayment rate of our CDOs portfolio is close to the mid-point of the range.
- **Default rate** - Annualized percentage of default rate over a group of collateral such as residential or commercial mortgage loans. The default rate and loss severity rate are positively correlated. The default rate of our portfolio is tilted towards the high end of the range.
- **Loss severity rate** - Included in our Level 3 CDOs portfolio are collateralized loan obligations (CLOs) and trust preferred securities which are about equally distributed. The loss severity rate for trust preferred securities at June 30, 2016 is about 1.8 times that of CLOs.

Derivatives

- **Correlation of default** - The default correlation of a group of credit exposures measures the likelihood that the credit references within a group will default together. The default correlation is a significant input to structured credit products such as nth-to-

default swaps. In addition, the correlation between the currency and the default risk of the reference credits is a critical input to a foreign currency denominated credit default swap where the correlation is not observable.

- *Implied volatility* - The implied volatility is a significant pricing input for freestanding or embedded options including equity, foreign currency and interest rate options. 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. The implied volatility for different foreign currency pairs is between 12 percent and 18 percent while the implied volatility for equity/equity or equity/equity index is between 12 percent and 46 percent, respectively, at June 30, 2016. Although implied foreign currency volatility and equity volatility appear to be widely distributed at the portfolio level, the deviation of implied volatility on a trade-by-trade basis is narrower. The average deviation of implied volatility for the foreign currency pair and at-the-money equity option are 5 percent and 5 percent, respectively, at June 30, 2016.
- *Correlations of a group of foreign currency or equity* - Correlation measures the relative change in values among two or more variables (i.e., equity or foreign currency pair). Variables can be positively or negatively correlated. Correlation is a key input in determining the fair value of a derivative referenced to a basket of variables such as equities or foreign currencies. A majority of the correlations are not observable, but are derived based on historical data. The correlation between equity/equity and equity/equity index was between 47 percent and 58 percent at June 30, 2016.

Sensitivity of Level 3 Inputs to Fair Value Measurements

Collateralized debt obligations - Probability of default, prepayment speed and loss severity rate are significant unobservable inputs. Significant increase (decrease) in these inputs will result in a lower (higher) fair value measurement of a collateralized debt obligation. A change in assumption for default probability is often accompanied by a directionally similar change in loss severity, and a directionally opposite change in prepayment speed.

Corporate and domestic debt securities - The fair value measurements of certain corporate debt securities are affected by the fair value of the underlying portfolios of investments used as collateral and the make-whole guarantee provided by third party guarantors. The probability that the collateral fair value declines below the collateral call threshold concurrent with the guarantors' failure to perform its make whole obligation is unobservable. The increase (decrease) in the probability the collateral value falls below the collateral call threshold is often accompanied by a directionally similar change in default probability of the guarantor.

Credit derivatives - Correlation of default among a basket of reference credit names is a significant unobservable input if the credit attributes of the portfolio are not within the parameters of relevant standardized CDS indices. Significant increase (decrease) in the unobservable input will result in a lower (higher) fair value measurement of the credit derivative. A change in assumption for default correlation is often accompanied by a directionally similar change in default probability and loss rates of other credit names in the basket.

Equity and foreign exchange derivatives - The fair value measurement of a structured equity or foreign exchange derivative is primarily affected by the implied volatility of the underlying equity price or exchange rate of the paired foreign currencies. The implied volatility is not observable. Significant increase (decrease) in the implied volatility will result in a higher (lower) fair value of a long position in the derivative contract.

Significant Transfers Into and Out of Level 3 Measurements During the three and six months ended June 30, 2016, we transferred \$82 million and \$141 million of domestic deposits and \$61 million and \$145 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. Additionally, during the three and six months ended June 30, 2016, we transferred \$7 million and \$15 million of domestic deposits, which we have elected to carry at fair value, from Level 2 to Level 3 as a result of a change in the observability of underlying instruments that resulted in the embedded derivative being unobservable.

During the three and six months ended June 30, 2015, we transferred \$78 million and \$179 million of domestic deposits and \$12 million and \$32 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. Additionally, during both the three and six months ended June 30, 2015, we transferred \$22 million of deposits in domestic offices, which we have elected to carry at fair value, from Level 2 to Level 3 as a result of a change in the observability of underlying instruments that resulted in the embedded derivative being unobservable.

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) mortgage and commercial loans classified as held for sale reported at the lower of amortized cost or fair value and (b) impaired loans or assets that are written down to fair value based on the valuation of underlying collateral 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, 2016 and December 31, 2015. The gains (losses) during the three and six months ended June 30, 2016 and 2015 are also included.

	Non-Recurring Fair Value Measurements at June 30, 2016				Total Gains (Losses) For the Three Months Ended June 30, 2016	Total Gains (Losses) For the Six Months Ended June 30, 2016
	Level 1	Level 2	Level 3	Total		
(in millions)						
Residential mortgage loans held for sale ⁽¹⁾ ..	\$ —	\$ —	\$ 375	\$ 375	\$ (11)	\$ (44)
Consumer loans ⁽²⁾	—	41	—	41	(4)	(9)
Commercial loans held for sale ⁽³⁾	—	10	—	10	(3)	(30)
Impaired commercial loans ⁽⁴⁾	—	—	533	533	(119)	(302)
Real estate owned ⁽⁵⁾	—	23	—	23	3	4
Total assets at fair value on a non-recurring basis	<u>\$ —</u>	<u>\$ 74</u>	<u>\$ 908</u>	<u>\$ 982</u>	<u>\$ (134)</u>	<u>\$ (381)</u>
	Non-Recurring Fair Value Measurements at December 31, 2015				Total Gains (Losses) For the Three Months Ended June 30, 2015	Total Gains (Losses) For the Six Months Ended June 30, 2015
	Level 1	Level 2	Level 3	Total		
(in millions)						
Residential mortgage loans held for sale ⁽¹⁾ ..	\$ —	\$ 2	\$ 3	\$ 5	\$ —	\$ —
Consumer loans ⁽²⁾	—	133	—	133	(8)	(18)
Commercial loans held for sale ⁽³⁾	—	55	—	55	(6)	(14)
Impaired commercial loans ⁽⁴⁾	—	—	116	116	(16)	(15)
Real estate owned ⁽⁵⁾	—	22	—	22	1	2
Total assets at fair value on a non-recurring basis	<u>\$ —</u>	<u>\$ 212</u>	<u>\$ 119</u>	<u>\$ 331</u>	<u>\$ (29)</u>	<u>\$ (45)</u>

⁽¹⁾ At June 30, 2016 and December 31, 2015, the fair value of the loans held for sale was below cost. Certain residential mortgage loans held for sale have been classified as Level 3 fair value measurements within the fair value hierarchy, including certain residential mortgage loans which were transferred to held for sale during the first half of 2016 for which significant inputs in estimating fair value were unobservable and, to a lesser extent, certain residential mortgage loans held for sale for which the underlying real estate properties used to determine fair value are illiquid assets as a result of market conditions. Additionally, the fair value of these properties is affected by, among other things, the location, the payment history and the completeness of the loan documentation.

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

⁽³⁾ At June 30, 2016 and December 31, 2015, the fair value of the loans held for sale was below cost.

⁽⁴⁾ Certain commercial loans have undergone troubled debt restructurings and are considered impaired. As a matter of practical expedient, 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.

⁽⁵⁾ Real estate owned is required to be reported on the balance sheet net of transactions costs. The real estate owned amounts in the table above reflect the fair value unadjusted for transaction costs.

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, 2016 and December 31, 2015:

At June 30, 2016

Financial Instrument Type	Fair Value (in millions)	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs
Residential mortgage loans held for sale	\$ 375	Third party appraisal valuation based on estimated loss severities, including collateral values and market discount rate	Loss severity rates Market discount rate	30% - 100% 8% - 14%
Impaired commercial loans	533	Valuation of third party appraisal on underlying collateral	Loss severity rates	0% - 100%

At December 31, 2015

Financial Instrument Type	Fair Value (in millions)	Valuation Technique(s)	Significant Unobservable Inputs	Range of Inputs
Residential mortgage loans held for sale	\$ 3	Valuation of third party appraisal on underlying collateral	Loss severity rates	0% - 100%
Impaired commercial loans	116	Valuation of third party appraisal on underlying collateral	Loss severity rates	0% - 70%

Significant Unobservable Inputs for Non-Recurring Fair Value Measurements

Residential mortgage loans held for sale represent residential mortgage loans which were transferred to held for sale during the first half of 2016 and, to a lesser extent, subprime residential mortgage loans which were previously acquired with the intent of securitizing or selling them to third parties. The weighted average loss severity rate for residential mortgage loans held for sale was approximately 75 percent at June 30, 2016. These severity rates are primarily impacted by the value of the underlying collateral securing the loans.

Impaired loans represent commercial loans. The weighted average severity rate for these loans was approximately 27 percent at June 30, 2016. These severity rates are primarily impacted by the value of the underlying collateral securing the loans.

Valuation Techniques Following is a description of valuation methodologies used for assets and liabilities recorded at fair value and for estimating fair value for those financial instruments not recorded at fair value for which fair value disclosure is required.

Short-term financial assets and liabilities - The carrying amount of certain financial assets and liabilities recorded at cost 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, short-term borrowings and dividends payable.

Federal funds sold and purchased and securities purchased and sold under resale and repurchase agreements - We record certain securities purchased and sold under resale and repurchase agreements at fair value. The fair value of these resale and repurchase agreements is determined using market rates currently offered on comparable transactions with similar underlying collateral and maturities.

The remaining federal funds sold and purchased and securities purchased and sold under resale and repurchase agreements are recorded at cost. A majority of these transactions are short-term in nature and, as such, the recorded amounts approximate fair value. For transactions with long-dated maturities, fair value is based on dealer quotes for instruments with similar terms and collateral.

Loans - Except for certain commercial loans held for sale for which the fair value option has been elected, we do not record loans at fair value on a recurring basis. From time to time, we record impairments to loans. The write-downs can be based on observable market price of the loan, the underlying collateral value or a discounted cash flow analysis. In addition, fair value estimates are determined based on the product type, financial characteristics, pricing features and maturity.

- Loans held for sale – Consumer and commercial loans held for sale (that are not designated under FVO as discussed below) as well as certain residential mortgage whole loans held for sale are recorded at the lower of amortized cost or fair value. The fair value estimates of consumer and commercial loans held for sale are determined primarily using the discounted cash flow method using assumptions consistent with those which would be used by market participants in valuing such loans. Valuation inputs include estimates of prepayment rates, default rates, loss severities, collateral values and market rates of return. Since some loan pools may have features which are unique, the fair value measurement processes use significant unobservable inputs which are specific to the performance characteristics of the various loan portfolios. Where available, we measure residential

mortgage whole loans held for sale based on transaction prices of loan portfolios of similar characteristics observed in the whole loan market. 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.

- Commercial loans held for sale designated under FVO – We record certain commercial loans held for sale at fair value. Where available, fair value is based on observable market consensus 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 – Commercial loans and commercial real estate loans are valued by discounting the contractual cash flows, adjusted for prepayments and the borrower's credit risk, using a discount rate that reflects the current rates offered to borrowers of similar credit standing for the remaining term to maturity and, when applicable, our own estimate of liquidity premium.
- Commercial impaired loans – Generally represents collateral dependent commercial loans with fair value determined based on pricing quotes obtained from an independent third party appraisal.
- Consumer loans – The estimated fair value of our consumer loans were determined by developing an approximate range of value from a mix of various sources as appropriate for the respective pool of assets. These sources included estimates from an HSBC affiliate which reflect over-the-counter trading activity, forward looking discounted cash flow models using assumptions consistent with those which would be used by market participants in valuing such loans; trading input from other market participants which includes observed primary and secondary trades; where appropriate, the impact of current estimated rating agency credit tranching levels with the associated benchmark credit spreads; and general discussions held directly with potential investors. For revolving products, the estimated fair value excludes future draws on the available credit line as well as other items and, therefore, does not include the fair value of the entire relationship.

Valuation inputs include estimates of future interest rates, prepayment speeds, default and loss curves, estimated collateral value and market discount rates reflecting management's estimate of the rate that would be required by investors in the current market given the specific characteristics and inherent credit risk of the loans. Some of these inputs are influenced by collateral value changes and unemployment rates. Where available, such inputs are derived principally from or corroborated by observable market data. We perform analytical reviews of fair value changes on a quarterly basis and periodically validate our valuation methodologies and assumptions based on the results of actual sales of loans with similar characteristics. In addition, from time to time, we may engage a third party valuation specialist to measure the fair value of a pool of loans. Portfolio risk management personnel provide further validation through discussions with third party brokers and other market participants. Since some loan pools may have features which are unique, the fair value measurement processes use significant unobservable inputs which are specific to the performance characteristics of the various loan portfolios.

Lending-related commitments - The fair value of commitments to extend credit, standby letters of credit and financial guarantees are not included in the 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 commitments and standby letters of credit totaled \$52 million and \$54 million at June 30, 2016 and December 31, 2015, respectively.

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, including collateralized debt obligations – 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.

- Other domestic debt and foreign debt securities (corporate and government) - 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 new 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 – Except for certain legacy investments in hedge funds, fair value measurements are determined based on quoted prices for the identical security. For hedge fund investments, we receive monthly statements from the investment manager with the estimated fair value.

The following tables provide additional information relating to asset-backed securities as well as certain collateralized debt obligations held at June 30, 2016:

Trading asset-backed securities:

Rating of Securities: ⁽¹⁾	Collateral Type:	Level 2	Level 3	Total
		(in millions)		
AAA -A.....	Residential mortgages - Alt A.....	\$ 53	\$ —	\$ 53
	Residential mortgages - Subprime	42	—	42
	Student loans	84	—	84
	Total AAA -A.....	179	—	179
BBB -B	Collateralized debt obligations.....	—	201	201
CCC-Unrated	Residential mortgages - Subprime	5	—	5
		\$ 184	\$ 201	\$ 385

Available-for-sale securities backed by collateral:

Rating of Securities: ⁽¹⁾	Collateral Type:	Level 2	Level 3	Total
		(in millions)		
AAA -A.....	Commercial mortgages.....	\$ 6	\$ —	\$ 6
	Home equity - Alt A.....	67	—	67
	Other	493	—	493
	Total AAA -A.....	\$ 566	\$ —	\$ 566

⁽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. Ratings for collateralized debt obligations represent the ratings associated with the underlying collateral.

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 default correlations of the referenced credit and volatilities of embedded options. These estimates are susceptible to significant change in future periods as market conditions change.

We use the OIS curves as inputs to measure the fair value of collateralized derivatives. Historically, we valued uncollateralized derivatives by discounting expected future cash flows at a benchmark interest rate, typically LIBOR or its equivalent. In line with evolving industry practice, we changed this approach during 2014. We now view the OIS curve as the base discounting curve for all derivatives, both collateralized and uncollateralized, and have adopted a FFVA to reflect the estimated present value of the future market funding cost or benefit associated with funding uncollateralized derivative exposure at rates other than the OIS rate. This is an area in which a full industry consensus has not yet emerged. We will continue to monitor industry evolution and refine the calculation methodology as necessary.

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. Correlation is derived using market quotes from brokers and various pricing services.
- 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 own credit standing for financial liabilities (the "credit risk adjustments") in determining the fair value measurement. For derivative instruments, we calculate the credit risk 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 risk 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). Where specific proxy credit default swap is not available, we apply a blended approach based on a combination of credit default swaps referencing to credit names of similar credit standing and the historical rating-based probability of default.

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 45 days to reflect observable local market data, including local area sales data.

Mortgage servicing rights - We elected to measure residential mortgage servicing rights at fair value and, prior to March 2016, classified them as intangible assets. In March 2016, we initiated an active program to sell our remaining MSRs portfolio and reclassified them to held for sale within other assets. The fair value for the residential mortgage servicing rights is determined based on an option adjusted approach which involves discounting servicing cash flows under various interest rate projections at risk-adjusted rates. The valuation model also incorporates our best estimate of the prepayment speed of the mortgage loans, current cost to service and discount rates which are unobservable.

Structured notes and deposits – Structured notes and deposits are hybrid instruments containing embedded derivatives and are elected to be measured at fair value in their entirety under fair value option accounting principles. The valuation of hybrid instruments is predominantly driven by the derivative features embedded within the instruments and 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 – We elected to apply fair value option to certain 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.

For long-term debt recorded at cost, fair value is determined based on quoted market prices where available. If quoted market prices are not available, fair value is based on dealer quotes, quoted prices of similar instruments, or internally developed valuation models adjusted for own credit risks.

Deposits – For fair value disclosure purposes, the carrying amount of deposits with no stated maturity (e.g., demand, savings, and certain money market deposits), which represents the amount payable upon demand, is considered to generally approximate fair value. For deposits with stated maturities, fair value is estimated by discounting cash flows using market interest rates currently offered on deposits with similar characteristics and maturities.

20. *Litigation and Regulatory Matters*

The following supplements, and should be read together with, the disclosure in Note 27, "Litigation and Regulatory Matters," in our 2015 Form 10-K and in Note 20, "Litigation and Regulatory Matters," in our Form 10-Q for the three month period ended March 31, 2016 (the "2016 First Quarter Form 10-Q"). Only those matters with significant updates and new matters since our disclosure in our 2015 Form 10-K and our 2016 First Quarter Form 10-Q are reported herein.

In addition to the matters described below, and in our 2015 Form 10-K and our 2016 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.

In view of 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.

For the legal matters disclosed below, including litigation and governmental and regulatory matters, as well as for the legal matters disclosed in Note 27, "Litigation and Regulatory Matters," in our 2015 Form 10-K and in Note 20, "Litigation and Regulatory Matters," in our 2016 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 \$200 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.

Based on the facts currently known, in respect of each of the below investigations as well as for the investigations disclosed in Note 27, "Litigation and Regulatory Matters," in our 2015 Form 10-K and in Note 20, "Litigation and Regulatory Matters," in our 2016 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.

Credit Card Litigation In June 2016, the U.S. Court of Appeals for the Second Circuit issued a decision vacating class certification and approval of the class settlement in *In re Payment Card Interchange Fee and Merchant Discount Antitrust Litigation*, MDL 1720 (E.D.N.Y.), concluding the class was inadequately represented by their counsel in violation of the Federal Rule of Civil Procedure governing class actions as well as the Due Process Clause of the U.S. Constitution. Specifically, the Court held that there was a conflict between two different but overlapping settlement classes: (1) a so-called opt-out class, which permitted individual class members to forgo their share of the monetary relief and pursue individual claims; and (2) a non-opt-out class of merchants, including future merchants that do not currently exist, which provided injunctive relief mainly in the form of a rule change by Visa and MasterCard to allow merchants to surcharge card transactions until July 20, 2021. We anticipate that the parties will seek further review of the decision.

Lender-Placed Insurance Matters As discussed in our 2015 Form 10-K, in January 2014, HSBC Mortgage Corporation (USA) and various other HSBC entities agreed to a settlement with the Massachusetts Attorney General concerning allegations of conflict of interest in placement of lender placed insurance and the HSBC entities paid approximately \$4 million to be held in escrow until the settlement was finalized. On February 17, 2016, the settlement was finalized by the filing of an Assurance of Discontinuance in the Massachusetts Superior Court. The Massachusetts Attorney General began distributing settlement payments to borrowers in July 2016.

Interest Rate Swaps Litigation

In June 2016, the Judicial Panel on Multi-district Litigation ordered the cases be consolidated as *In re Interest Rate Swaps Antitrust Litigation* in the U.S. District Court for the Southern District of New York.

Benchmark Rate Litigation

HSBC Bank USA, HSBC, HSBC USA, HSBC North America and the Hongkong and Shanghai Banking Corporation Limited have been named as defendants, among others, in a putative class action brought in the U.S. District Court for the Southern District of New York on behalf of persons who transacted in products tied to the Singapore Interbank Offering Rate ("SIBOR") or Singapore Swap Offer Rate ("SOR") between January 1, 2007 and December 31, 2011. The complaint, encaptioned *Frontpoint Asian Event Driven Fund, L.P., et al. v Citibank, N.A., et al.* (Case No. 15-cv-05263), alleges that the defendant banks colluded to rig SIBOR and SOR by collusively making false SIBOR submissions and entering into collusive transactions directly in the swaps market, thereby fixing the prices of SIBOR and SOR based derivatives for their collective financial benefits. The defendants are accused of illegal restraint of trade in violation of the Sherman Act, violation of the Racketeer Influenced and Corrupt Organizations Act ("RICO"), and unjust enrichment. This matter is at a very early stage.

Anti-Money Laundering, Bank Secrecy Act and Office of Foreign Assets Control Matters

HSBC Bank USA is not currently in full compliance with the 2010 OCC consent cease-and-desist order. Steps are being taken to address the requirements of that and a similar order with the FRB to establish an effective compliance risk management program across HSBC's US businesses, including risk management related to the Bank Secrecy Act and Anti-Money Laundering compliance.

Under the terms of the five-year deferred prosecution agreement that HSBC and HSBC Bank USA entered into with, among others, the U.S. Department of Justice ("DOJ") (the "U.S. DPA"), HSBC and HSBC Bank USA undertook various obligations, including, among others, to continue to cooperate fully with the DOJ in any and all investigations, not to commit any crime under US federal law subsequent to the signing of the agreement, and to retain an independent compliance monitor (the "Monitor"). Through his country-level reviews, the Monitor identified potential anti-money laundering and sanctions issues that the U.S. Department of Justice and HSBC are reviewing further. Additionally, as discussed elsewhere in this Note 20 as well as the 2015 Form 10-K and the 2016 First Quarter Form 10-Q, we are the subject of other ongoing investigations and reviews by the DOJ.

Ramiro Giron, et al. v Hong Kong and Shanghai Bank Company, Ltd., et al. On June 30, 2016, the court issued a decision partially granting and partially denying HSBC Bank USA, NA's motion to dismiss. The court dismissed the RICO claims with prejudice and the UCL claim with leave to amend. The other causes of action remain. The Hong Kong and Shanghai Bank Company's motion to dismiss remains pending. The case is at an early stage.

Zapata, et al. v HSBC In June 2016, the HSBC defendants filed motions to transfer the case to the U.S. District Court for the Southern District of New York and to dismiss the action based on lack of personal jurisdiction as to certain defendants.

Telephone Consumer Protection Act Litigation

The HSBC defendants responded to the complaints in the *Ahmed v. HSBC Bank USA, National Association and Monteleone v. HSBC Finance Corporation, et al.* litigations in July 2016. These actions are at early stages.

Other Regulatory and Law Enforcement Investigations

We and certain other HSBC entities have received requests for information from various regulatory or law enforcement authorities around the world concerning persons and entities believed to be linked to Mossack Fonseca & Co, a service provider of personal investment companies. HSBC is cooperating with the relevant authorities.

21. New Accounting Pronouncements

The following new accounting pronouncement was adopted effective January 1, 2016:

- ***Amendments to the Consolidation Analysis*** In February 2015, the Financial Accounting Standards Board ("FASB") issued an Accounting Standards Update ("ASU") which rescinds the deferral of VIE consolidation guidance for reporting entities with interests in certain investment funds and provides a new scope exception to registered money market funds and similar unregistered money market funds. The ASU makes several other amendments including a) the elimination of certain criteria previously used for determining whether fees paid to a decision maker represent a variable interest; b) revising the consolidation model for limited partnerships and similar entities which could be variable interest entities or voting interest entities; c) excluding certain fees paid to a decision maker from the risk and benefit test in the primary beneficiary determination if certain conditions are met; and d) reduces the application of the related party guidance for VIEs. We adopted this guidance on January 1, 2016. The adoption of this guidance did not have any impact on our financial position or results of operations; however, one of our unconsolidated limited partnership investments related to renewable energy became a VIE under the new guidance. Disclosure of this unconsolidated VIE is included under the caption "Limited partnership investments" in Note 17, "Variable Interest Entities."

The following are accounting pronouncements which will be adopted in future periods:

- Recognition of Revenue from Contracts with Customers** In May 2014, the FASB issued an ASU which provides a principles-based framework for revenue recognition that supersedes virtually all previously issued revenue recognition guidance. Additionally, the ASU requires improved disclosures to help users of financial statements better understand the nature, amount, timing, and uncertainty of revenue that is recognized. The core principle of the five-step revenue recognition framework is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. While the ASU as originally issued was scheduled to be effective for all annual and interim periods beginning January 1, 2017, in August 2015, the FASB deferred the effective date by one year, but provided entities the option to adopt it as of the original effective date. The amendments in the ASU may be applied either retrospectively to each prior reporting period presented or retrospectively with the cumulative effect of adoption recognized in equity at the date of initial application. The adoption of this guidance is not expected to have a significant impact on our financial position or results of operations.
- Financial Instruments - Classification and Measurement** In January 2016, the FASB issued an ASU which changes aspects of its guidance on classification and measurement of financial instruments. The ASU requires equity investments (except those accounted for under the equity method or those that result in consolidation) to be measured at fair value with changes in fair value recognized in net income. Under a practicability exception, entities may measure equity investments that do not have readily determinable fair values at cost adjusted for changes in observable prices minus impairment. Under this exception, a qualitative assessment for impairment will be required and, if impairment exists, the carrying amount of the investments must be adjusted to their fair value and an impairment loss recognized in net income. For financial liabilities measured under the fair value option, the ASU requires recognizing the change in fair value attributable to our own credit in other comprehensive income. Additionally, the ASU requires new disclosure related to equity investments and modifies certain disclosure requirements related to the fair value of financial instruments. The ASU is effective for all annual and interim periods beginning January 1, 2018 and the guidance should be applied by recording a cumulative effect adjustment to the balance sheet or, as it relates to equity investments without readily determinable fair values, prospectively. Early adoption of the amendment related to financial liabilities measured under the fair value option is permitted. We are currently evaluating the impact of adopting this ASU.
- Leases** In February 2016, the FASB issued an ASU which requires a lessee to recognize a lease liability and a right-of-use asset on its balance sheet for all leases, including operating leases, with a term greater than 12 months. Lease classification will determine whether a lease is reported as a financing transaction in the income statement and statement of cash flows. The ASU does not substantially change lessor accounting, but it does make certain changes related to leases for which collectability of the lease payments is uncertain or there are significant variable payments. Additionally, the ASU makes several other targeted amendments including a) revising the definition of lease payments to include fixed payments by the lessee to cover lessor costs related to ownership of the underlying asset such as for property taxes or insurance; b) narrowing the definition of initial direct costs which an entity is permitted to capitalize to include only those incremental costs of a lease that would not have been incurred if the lease had not been obtained; c) requiring seller-lessees in a sale-leaseback transaction to recognize the entire gain from the sale of the underlying asset at the time of sale rather than over the leaseback term; and d) expanding disclosures to provide quantitative and qualitative information about lease transactions. The ASU is effective for all annual and interim periods beginning January 1, 2019 and is required to be applied retrospectively to the earliest period presented at the date of initial application, with early adoption permitted. We are currently evaluating the impact of adopting this ASU.
- Compensation - Stock Compensation** In March 2016, the FASB issued an ASU that requires all excess tax benefits and tax deficiencies for share-based payment awards to be recorded as income tax benefit or expense in the income statement and for excess tax benefits to be classified as an operating activity in the statement of cash flows. Under the ASU, entities elect whether to account for forfeitures of awards by either recognizing forfeitures as they occur or by estimating the number of awards expected to be forfeited. Additionally, the ASU allows entities to withhold up to the maximum individual statutory tax rate to cover income taxes on awards and classify the entire awards as equity. Cash paid to satisfy the statutory income tax withholding obligation must be classified as a financing activity in the statement of cash flows. The ASU is effective for all annual and interim periods beginning January 1, 2017, with early adoption permitted. The amendments in the ASU have various transition requirements with certain amendments required to be applied retrospectively. We are currently evaluating the impact of adopting this ASU.
- Financial Instruments - Credit Impairment** In June 2016, the FASB issued an ASU that significantly changes how entities will measure credit losses for most financial assets and certain other instruments that are not measured at fair value through net income. The ASU requires entities to estimate and recognize an allowance for lifetime expected credit losses for loans (including TDR Loans), held-to-maturity debt securities, off-balance sheet credit exposures and certain other financial assets measured at amortized cost. The ASU also requires entities to recognize an allowance for credit losses on AFS debt securities and revises the accounting model for purchased credit impaired loans and debt securities. Additionally, the ASU requires new disclosures, the more significant of which include a) for financial assets measured at cost, information about how an entity developed its allowance, including changes in the factors that influenced the estimate of expected credit losses and

the reasons for those changes; b) for financing receivables, further disaggregation of credit quality indicators by year of origination; and c) for AFS debt securities, a rollforward of the allowance for credit losses and an aging analysis of securities that are past due. The ASU is effective for all annual and interim periods beginning January 1, 2020, with early adoption permitted beginning January 1, 2019, and is required to 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. We are currently evaluating the impact of adopting this ASU.

There have been no additional accounting pronouncements issued during the first half of 2016 that are expected to have or could have a significant impact on our financial position or results of operations.

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. These matters or statements will relate to our future 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:

- uncertain market and economic conditions, a decline in housing prices, a decline in energy prices, unemployment levels, tighter credit conditions, changes in interest rates or a prolonged period of low or negative interest rates, the availability of liquidity, unexpected geopolitical events including the decision by the United Kingdom to exit the European Union ("EU"), changes in consumer confidence and consumer spending, and consumer perception as to the continuing availability of credit and price competition in the market segments we serve;
- changes in laws and regulatory requirements;
- the ability to deliver on our regulatory priorities;
- extraordinary government actions as a result of market turmoil;
- capital and liquidity requirements under Basel III, the Federal Reserve Board's ("FRB") Comprehensive Capital Analysis and Review ("CCAR"), and the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 (“Dodd-Frank Act”) stress testing ("DFAST"), including the U.S. FRB requirements, when finalized, for U.S. global systemically important banks ("G-SIBs") and U.S. intermediate holding companies ("IHCs") owned by non-US 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 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 ("HSBC Bank USA") to fulfill the requirements imposed by the deferred prosecution agreements with the U.S. Department of Justice, the U.S. Attorney's Office for the Eastern District of New York, and the U.S. Attorney's Office for the Northern District of West Virginia, our agreement with the Office of the Comptroller of the Currency, our other consent agreements as well as 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 financial condition of our clients and counterparties and our ability to manage counterparty risk;
- concentrations of credit and market risk, including exposure to Latin American corporate clients and the oil and gas markets;
- the ability to implement our business strategies;
- 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 and retain customers and to attract and retain key employees;
- the effects of competition in the markets where we operate including increased competition for non-bank financial services companies, including securities firms;

- disruption in our operations from the external environment arising from events such as natural disasters, terrorist attacks, global pandemics, or essential utility outages;
- 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 cyber attacks;
- third party suppliers' and outsourcing vendors' ability to provide adequate services;
- losses suffered due to the negligence or misconduct of our employees or the negligence or misconduct on the part of employees 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;
- our ability to cross-sell our products to existing customers;
- increases in our allowance for credit losses and changes in our assessment of our loan portfolios;
- changes in Financial Accounting Standards Board ("FASB") and International Accounting Standards Board ("IASB") accounting standards and their interpretation;
- heightened regulatory and government enforcement scrutiny of financial institutions;
- continued heightened regulatory scrutiny with respect to residential mortgage servicing practices, with particular focus on loss mitigation, foreclosure prevention and outsourcing;
- changes to our mortgage servicing and foreclosure practices;
- changes in the methodology for determining benchmark rates;
- heightened regulatory and government enforcement scrutiny of financial markets, with a particular focus on 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 or application of tax laws to which we are subject;
- changes in bankruptcy laws to allow for principal reductions or other modifications to mortgage loan terms;
- additional financial contribution requirements to the HSBC North America Holdings Inc. ("HSBC North America") pension plan;
- 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, 2015 ("2015 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 an indirect wholly-owned subsidiary of 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 The U.S. economy continued its overall recovery during the first half of 2016, while consumer sentiment in June 2016 remained relatively flat from December 2015 levels. The stability in the overall sentiment index reflects a gradual improvement in assessments of current conditions and an increasingly more positive view by consumers of their personal finances, offset by an expectation that the slow pace of economic growth will likely put an end to further meaningful declines in the unemployment rate. The prolonged period of low interest rates, however, continues to put pressure on spreads earned on our deposit base. The U.S. economy added approximately 1 million jobs during the first half of 2016 and total unemployment decreased slightly to 4.9 percent at June 30, 2016 as compared with 5.0 percent at December 2015. While long-term unemployment decreased by approximately 5 percent during the first half of 2016, economic headwinds remain as wage growth remains weak, an elevated number of part-time workers continue to seek full-time work and the number of discouraged people who have stopped looking for work remains elevated, as evidenced by the U.S. Bureau of Labor Statistics' U-6 unemployment rate of 9.6 percent at June 2016, as compared with a rate of 9.9 percent at year-end.

Despite the continued improvement of the U.S. economy, economic uncertainty remains high in many economies outside the U.S., including China as well as Latin America and in particular Brazil, where economic activity continues to be slow, with the decision by the United Kingdom in late June to exit the EU further adding to this global uncertainty. In addition, although the price of oil increased during the first half of 2016, it declined significantly during 2015 and remains depressed compared with historical levels, adding pressure to portfolios where the customer base is heavily centered in commodity-based businesses. The sustainability of the economic recovery will be determined by numerous variables including consumer sentiment, energy prices, credit market volatility, employment levels and housing market conditions which will impact corporate earnings and the capital markets. These conditions in combination with global economic conditions, fiscal policy, geopolitical concerns and the heightened regulatory and government scrutiny of financial institutions will continue to impact our results in 2016 and beyond.

Performance, Developments and Trends The following table sets forth selected financial highlights of HSBC USA for the three and six months ended June 30, 2016 and 2015 and at June 30, 2016 and December 31, 2015:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(dollars are in millions)			
Net income (loss).....	\$ (21)	\$ 87	\$ 133	\$ 251
Rate of return on average:				
Total assets.....	— %	.2%	.1%	.3%
Total risk weighted assets.....	(.1)	.2	.2	.3
Total common shareholder's equity.....	(.7)	1.4	1.1	2.4
Total shareholders' equity.....	(.4)	1.7	1.3	2.6
Net interest margin.....	1.29	1.36	1.33	1.38
Efficiency ratio.....	88.4	82.6	75.7	77.5
Commercial net charge-off ratio ⁽¹⁾57	.20	.39	.12
Consumer net charge-off ratio ⁽¹⁾16	.36	.21	.43

⁽¹⁾ Excludes loans held for sale.

June 30,
2016

December 31,
2015

(dollars are in millions)

Additional Select Ratios:

Allowance as a percent of loans ⁽¹⁾	1.33%	1.10%
Commercial allowance as a percent of loans ⁽¹⁾	1.60	1.25
Consumer allowance as a percent of loans ⁽¹⁾54	.65
Consumer two-months-and-over contractual delinquency	4.20	4.56
Loans to deposits ratios ⁽²⁾	81.96	93.07
Common equity Tier 1 capital to risk weighted assets	12.8	12.0
Tier 1 capital to risk weighted assets	13.6	12.6
Total capital to risk weighted assets.....	17.5	16.5
Total shareholders' equity to total assets.....	10.0	10.9

Select Balance Sheet Data

Cash and interest bearing deposits with banks	\$ 14,714	\$ 8,446
Trading assets.....	18,812	17,085
Securities available-for-sale.....	38,424	35,773
Loans:		
Commercial loans	59,543	62,453
Consumer loans.....	20,267	20,464
Total loans.....	79,810	82,917
Deposits.....	132,819	118,579

⁽¹⁾ Excludes loans held for sale.⁽²⁾ Represents period end loans, net of allowance for loan losses, as a percentage of domestic deposits equal to or less than \$100,000.

Net income (loss) was a loss of \$21 million and income of \$133 million during the three and six months ended June 30, 2016, respectively, compared with income of \$87 million and \$251 million during the three and six months ended June 30, 2015. Net income (loss) in the prior year periods reflects the impact of New York City tax reform which resulted in an increase in tax expense of \$48 million during the second quarter of 2015.

Income (loss) before income tax was a loss of \$26 million and income of \$207 million during the three and six months ended June 30, 2016, respectively, compared with income of \$185 million and \$425 million during the three and six months ended June 30, 2015. The decrease in income (loss) before income tax during the three and six months ended June 30, 2016 reflects a higher provision for credit losses and lower other revenues, partially offset by lower operating expenses and higher net interest income.

Our reported results in all periods were impacted by certain items management believes to be significant which distorts 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:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Income (loss) before income tax, as reported	\$ (26)	\$ 185	\$ 207	\$ 425
Fair value movement on own fair value option debt attributable to credit spread	41	(48)	(108)	(118)
Costs to achieve ⁽¹⁾	28	—	31	—
Adjusted performance ⁽²⁾	\$ 43	\$ 137	\$ 130	\$ 307

⁽¹⁾ Reflects transformation costs to deliver the cost reduction and productivity outcomes outlined in HSBC's Investor Update of June 2015.⁽²⁾ Represents a non-U.S. GAAP financial measure.

Excluding the collective impact of the items in the table above, our adjusted performance during the three and six months ended June 30, 2016 declined \$94 million and \$177 million, respectively, compared with the prior year periods as a higher provision for credit losses in our commercial loan portfolio and lower other revenues driven by lower other income and lower other fees and commissions were partially offset by lower operating expenses and higher net interest income.

See "Results of Operations" for 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.

In June 2016, voters in the United Kingdom approved a referendum to withdraw its membership from the EU. While we continue to actively monitor our portfolio to ensure that we quickly identify and manage any areas of stress, our United Kingdom and European capital markets exposure is limited, and we currently do not anticipate this decision will have a significant impact on our operations.

As previously reported, as a result of the adoption of the final rules by the U.S. banking regulators implementing the Basel III regulatory capital and liquidity reforms from the Basel Committee, together with the impact of similar implementation by United Kingdom banking regulators, we continue to review the composition of our capital structure. During the second quarter of 2016, HSBC USA redeemed all of its remaining externally issued preferred stock, including its Floating Rate Non-Cumulative Series F Preferred Stock, Floating Rate Non-Cumulative Series G Preferred Stock and 6.50 percent Non-Cumulative Series H Preferred Stock, at their stated values of \$25 per share, \$1,000 per share and \$1,000 per share, respectively, resulting in a total cash payment of \$1,265 million. In connection with these redemptions, HSBC USA issued 1,265 shares of 6.0 percent Non-Cumulative Series I Preferred Stock to HSBC North America in exchange for cash consideration of \$1,265 million.

Our operations are focused on the core activities of our four global businesses and the positioning of our activities towards international connectivity strategies, including what we believe are our unique capabilities to serve clients in the North American Free Trade Agreement trade corridor in order to improve profitability. We also continue to focus on cost optimization efforts to ensure realization of cost efficiencies. To date, we have identified and implemented various opportunities to reduce costs through organizational structure redesign, vendor spending, discretionary spending and other general efficiency initiatives which have resulted in workforce reductions. Additional cost reduction opportunities have been identified and are in the process of implementation. These efforts continue and, as a result, we may incur restructuring charges in future periods, the amount of which will depend upon the actions that ultimately are implemented. We also continue to evaluate our overall operations as we seek to optimize our risk profile and cost efficiencies as well as our liquidity, capital and funding requirements. This could result in further strategic actions that may include changes to our legal structure, asset levels, cost structure or product offerings in support of HSBC's strategic priorities.

As part of this on-going evaluation, during the first quarter of 2016 we decided we no longer have the intent to hold for investment certain residential mortgage loans and adopted a formal program to initiate sale activities for these residential mortgage loans when a loan meeting pre-determined criteria is written down to the lower of amortized cost or fair value of the collateral less cost to sell (generally 180 days past due) in accordance with our existing charge-off policies. These loans were largely originated by us prior to the implementation of our Premier strategy. Under this program, during the three and six months ended June 30, 2016, we transferred residential mortgage loans to held for sale with a total unpaid principal balance of approximately \$27 million and \$524 million, respectively, at the time of transfer. The carrying value of these loans prior to transfer after considering the fair value of the property less costs to sell was approximately \$25 million and \$433 million, including related escrow advances, during the three and six months ended June 30, 2016, respectively. As we plan to sell these loans to third party investors, fair value represents the price we believe a third party investor would pay to acquire the loan portfolios. During the three and six months ended June 30, 2016, we recorded an initial lower of amortized cost or fair value adjustment of \$5 million and \$38 million, respectively, associated with newly transferred loans, all of which was attributed to non-credit factors and recorded as a component of other income (loss) in the consolidated statement of income (loss). During both the three and six months ended June 30, 2016, we recorded \$6 million of additional lower of amortized cost or fair value adjustment on these loans held for sale as a component of other income (loss) in the consolidated statement of income (loss) as a result of a change in the estimated pricing on specific pools of loans.

Also in March 2016, we initiated an active program to sell our remaining Mortgage Servicing Rights ("MSRs") portfolio which has been in run-off for several years. As a result, we now consider the MSRs portfolio and related servicing advances, which together totaled \$313 million, to be held for sale at June 30, 2016 and reported them in other assets on the consolidated balance sheet. Any sale, which would be subject to regulatory approval, is expected to be completed during the second half of 2016. As the MSRs are carried at fair value and we expect to transfer the related servicing advances to the buyer at near cost, the lower of amortized cost or fair value adjustment recorded associated with this reclassification to held for sale was insignificant.

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 and as endorsed by the EU and, 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 net income under this basis of reporting. The following table reconciles our U.S. GAAP versus Group Reporting Basis net income:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(in millions)			
Net income (loss) – U.S. GAAP basis	\$ (21)	\$ 87	\$ 133	\$ 251
Adjustments, net of tax:				
Loan impairment	(3)	3	(25)	17
Loans held for sale.....	9	—	31	8
Pension and other postretirement benefit costs	2	5	6	6
Reclassification of fair value measured financial assets	1	1	5	1
Loan origination	—	(3)	2	(6)
Property	(3)	(1)	(6)	(4)
Tax valuation allowances.....	—	(4)	—	(5)
Other.....	—	(2)	(4)	(17)
Net income (loss) – Group Reporting Basis	(15)	86	142	251
Tax expense – Group Reporting Basis.....	1	96	91	192
Profit (loss) before tax – Group Reporting Basis.....	\$ (14)	\$ 182	\$ 233	\$ 443

Loan impairment charges under the Group Reporting Basis during the three and six months ended June 30, 2016 were greater than under U.S. GAAP due to the default of certain credits where existing loan impairment allowances, prior to default, were lower under the Group Reporting Basis than under U.S. GAAP due to the shorter loss emergence period utilized for computing loan impairment allowances for commercial loans collectively evaluated for impairment under the Group Reporting Basis.

The significant differences between U.S. GAAP and the Group Reporting Basis impacting our results presented in the table above are discussed in more detail within "Basis of Reporting" in our 2015 Form 10-K. There have been no significant changes since December 31, 2015 in the differences between U.S. GAAP and the Group Reporting Basis impacting our results.

Balance Sheet Review

We utilize deposits and borrowings from various sources to provide liquidity, fund balance sheet growth, meet cash and capital needs, and fund investments in subsidiaries. The following table provides balance sheet totals at June 30, 2016 and increases (decreases) since December 31, 2015:

	June 30, 2016	Increase (Decrease) From December 31, 2015	
		Amount	%
(dollars are in millions)			
Period end assets:			
Short-term investments	\$ 49,380	\$ 21,087	74.5%
Loans, net	78,747	(3,258)	(4.0)
Loans held for sale	1,369	(816)	(37.3)
Trading assets	18,812	1,727	10.1
Securities	51,639	1,842	3.7
Other assets	10,926	2,013	22.6
	<u>\$ 210,873</u>	<u>\$ 22,595</u>	<u>12.0%</u>
Funding sources:			
Total deposits	\$ 132,819	\$ 14,240	12.0%
Trading liabilities	10,692	3,237	43.4
Short-term borrowings	7,376	2,381	47.7
Long-term debt	34,778	1,269	3.8
All other liabilities	4,148	933	29.0
Shareholders' equity	21,060	535	2.6
	<u>\$ 210,873</u>	<u>\$ 22,595</u>	<u>12.0%</u>

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 increased since December 31, 2015 driven by our conservative liquidity management practices, where we raise funds in advance of their usage and opportunistically deploy them to maximize returns.

Loans, Net The following summarizes our loan balances at June 30, 2016 and increases (decreases) since December 31, 2015:

	June 30, 2016	Increase (Decrease) From December 31, 2015	
		Amount	%
(dollars are in millions)			
Commercial loans:			
Construction and other real estate	\$ 10,973	\$ 973	9.7 %
Business and corporate banking	19,075	(41)	(.2)
Global banking ⁽¹⁾	26,357	(3,612)	(12.1)
Other commercial	3,138	(230)	(6.8)
Total commercial	<u>59,543</u>	<u>(2,910)</u>	<u>(4.7)</u>
Consumer loans:			
Residential mortgages	17,667	(91)	(.5)
Home equity mortgages	1,511	(89)	(5.6)
Credit cards	668	(31)	(4.4)
Other consumer	421	14	3.4
Total consumer	<u>20,267</u>	<u>(197)</u>	<u>(1.0)</u>
Total loans	<u>79,810</u>	<u>(3,107)</u>	<u>(3.7)</u>
Allowance for credit losses	1,063	151	16.6
Loans, net	<u>\$ 78,747</u>	<u>\$ (3,258)</u>	<u>(4.0)%</u>

⁽¹⁾ Represents large multinational firms including globally focused U.S. corporate and financial institutions and U.S. dollar lending to multinational banking customers managed by HSBC on a global basis. Also includes loans to HSBC affiliates which totaled \$5,072 million and \$4,815 million at June 30, 2016 and December 31, 2015, respectively.

Commercial loans decreased compared with December 31, 2015 largely due to paydowns and maturities exceeding new loan originations, primarily in global banking, as we directed efforts on deepening relationships with existing customers along with more focused lending to new customers in order to optimize returns. The decrease also reflects the transfer of certain global banking loans with a carrying value of \$1,088 million to held for sale during the first quarter of 2016, partially offset by the transfer of certain commercial real estate loans with a carrying value of \$612 million back to held for investment from held for sale during the second quarter of 2016. The decline in other commercial loans was driven by paydowns from two large Private Banking customers.

Consumer loans decreased compared with December 31, 2015 due primarily to the transfer of certain residential mortgage loans with a carrying value of \$369 million to held for sale during the first half of 2016 as discussed below, partially offset by an increase in residential mortgage loans as we continue to target new residential mortgage loan originations towards our Premier and Advance customer relationships and sell newly originated conforming loans to PHH Mortgage Corporation ("PHH Mortgage"). Home equity mortgages also decreased reflecting net paydowns as our focus continues to shift towards residential mortgage loans. The decline in credit card receivables reflects paydowns while the increase in other consumer loans was driven by growth in personal lending to Private Banking customers.

Prior to 2013, real estate markets in a large portion of the United States had been affected by stagnation or declines in property values for a number of years, however we have seen a general improvement in the loan-to-value ("LTV") ratios for our mortgage loan portfolio in recent years. The following table presents LTVs for our mortgage loan portfolio, excluding mortgage loans held for sale:

	LTVs at June 30, 2016 ⁽¹⁾⁽²⁾		LTVs at December 31, 2015 ⁽¹⁾⁽²⁾	
	First Lien	Second Lien	First Lien	Second Lien
LTV < 80%	95.8%	80.9%	94.9%	78.7%
80% ≤ LTV < 90%	2.5	10.4	2.9	11.0
90% ≤ LTV < 100%	1.0	5.8	1.4	6.5
LTV ≥ 100%	0.7	2.9	0.8	3.8
Average LTV for portfolio	54.0	57.8	54.9	59.1

- (1) 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 pricing 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) 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, 2016 and September 30, 2015, respectively.

Loans Held for Sale The following table summarizes loans held for sale at June 30, 2016 and increases (decreases) since December 31, 2015:

	June 30, 2016	Increase (Decrease) From December 31, 2015	
		Amount	%
(dollars are in millions)			
Commercial loans:			
Construction and other real estate	\$ —	\$ (1,895)	(100.0)%
Global banking	901	701	*
Total commercial.....	<u>901</u>	<u>(1,194)</u>	<u>(57.0)</u>
Consumer loans:			
Residential mortgages	391	380	*
Other consumer	77	(2)	(2.5)
Total consumer.....	<u>468</u>	<u>378</u>	<u>*</u>
Total loans held for sale.....	<u>\$ 1,369</u>	<u>\$ (816)</u>	<u>(37.3)%</u>

* Not meaningful.

Commercial loans held for sale decreased compared with December 31, 2015. During the second quarter of 2016, we sold \$1,161 million of certain commercial real estate loans to a third party and recognized a loss on sale of approximately \$3 million, including transaction costs. Upon completion of the sale, the remaining loans that were not sold, which had a carrying value of \$612 million at June 30, 2016, were transferred back to held for investment as we now intend to hold these loans for the foreseeable future.

During the first quarter of 2016, we transferred certain global banking loans with a carrying value of \$1,088 million to held for sale, including a portion of our interest in a large secured bridge loan facility as well as certain other loans which were transferred as part of an effort to optimize returns on risk weighted assets. There was no lower of amortized cost or fair value adjustment recorded associated with these transfers as the transferred loans are performing. During the second quarter of 2016, the large secured bridge loan facility was repaid and replaced with a new term loan facility which had a carrying value of \$763 million at June 30, 2016 that we intend to sell through loan participations and have elected to designate under the fair value option.

Global banking commercial loans held for sale includes certain loans which we have elected to designate under the fair value option, which includes commercial 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 (including the \$763 million new term loan facility discussed above) and commercial loans that we purchase from the secondary market and hold as hedges against our exposure to certain total return swaps. The fair value of loans held for sale under these programs totaled \$867 million and \$151 million at June 30, 2016 and December 31, 2015, respectively. Balances will fluctuate from period to period depending on the volume and level of activity.

During the three and six months ended June 30, 2016, we recorded lower of amortized cost or fair value adjustments of \$4 million and \$30 million, respectively, associated with the write-down of global banking loans which were transferred to held for sale prior to 2016 as a component of other income (loss) in the consolidated statement of income (loss).

Consumer loans held for sale increased compared with December 31, 2015. As previously disclosed, we continue to evaluate our overall operations as we seek to optimize our risk profile and cost efficiencies, as well as our liquidity, capital and funding requirements. As part of this on-going evaluation, as well as continued market demand for non-performing residential mortgage loans, during the first quarter of 2016 we decided we no longer have the intent to hold for investment certain residential mortgage loans and adopted a formal program to initiate sale activities for these residential mortgage loans when a loan meeting pre-determined criteria is written down to the lower of amortized cost or fair value of the collateral less cost to sell (generally 180 days past due) in accordance with our existing charge-off policies. These loans were largely originated by us prior to the implementation of our Premier strategy.

Under this program, during the three and six months ended June 30, 2016, we transferred residential mortgage loans to held for sale with a total unpaid principal balance of approximately \$27 million and \$524 million, respectively, at the time of transfer. The carrying value of these loans prior to transfer after considering the fair value of the property less costs to sell was approximately \$25 million and \$433 million, respectively, including related escrow advances. As we plan to sell these loans to third party investors, fair value represents the price we believe a third party investor would pay to acquire the loan portfolios. During the three and six months ended June 30, 2016, we recorded an initial lower of amortized cost or fair value adjustment of \$5 million and \$38 million, respectively, associated with newly transferred loans, all of which was attributed to non-credit factors and recorded as a component of other income (loss) in the consolidated statement of income (loss). During both the three and six months ended June 30, 2016, we recorded \$6 million of additional lower of amortized cost or fair value adjustment on these loans held for sale as a component of other income (loss) in the consolidated statement of income (loss) as a result of a change in the estimated pricing on specific pools of loans.

In addition to the residential mortgage sales program discussed above, we sell all our agency eligible residential mortgage loan originations servicing released directly to PHH Mortgage. Also included in residential mortgage loans held for sale are subprime residential mortgage loans with a fair value of \$3 million at both June 30, 2016 and December 31, 2015 which were previously acquired from unaffiliated third parties and from HSBC Finance Corporation ("HSBC Finance") with the intent of securitizing or selling the loans to third parties.

Other consumer loans held for sale reflects student loans which we no longer originate.

Excluding the commercial 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. The valuation allowance on consumer loans held for sale was \$55 million and \$13 million at June 30, 2016 and December 31, 2015, respectively. The valuation allowance on commercial loans held for sale was \$50 million and \$21 million at June 30, 2016 and December 31, 2015, respectively.

Trading Assets and Liabilities The following table summarizes trading assets and liabilities at June 30, 2016 and increases (decreases) since December 31, 2015:

	June 30, 2016	Increase (Decrease) From December 31, 2015	
		Amount	%
(dollars are in millions)			
Trading assets:			
Securities ⁽¹⁾	\$ 10,916	\$ (239)	(2.1)%
Precious metals	3,073	2,293	*
Derivatives, net ⁽²⁾	4,823	(327)	(6.3)
	<u>\$ 18,812</u>	<u>\$ 1,727</u>	<u>10.1 %</u>
Trading liabilities:			
Securities sold, not yet purchased	\$ 929	\$ 530	*
Payables for precious metals	890	240	36.9 %
Derivatives, net ⁽³⁾	8,873	2,467	38.5
	<u>\$ 10,692</u>	<u>\$ 3,237</u>	<u>43.4 %</u>

* Not meaningful.

⁽¹⁾ See Note 2, "Trading Assets and Liabilities," in the accompanying consolidated financial statements for a breakout of trading securities by category.

⁽²⁾ At June 30, 2016 and December 31, 2015 the fair value of derivatives included in trading assets has been reduced by \$4,398 million and \$4,652 million, respectively, relating to amounts recognized for the obligation to return cash collateral received under master netting agreements with derivative counterparties.

⁽³⁾ At June 30, 2016 and December 31, 2015 the fair value of derivatives included in trading liabilities has been reduced by \$1,383 million and \$1,530 million, respectively, relating to amounts recognized for the right to reclaim cash collateral paid under master netting agreements with derivative counterparties.

Securities balances decreased compared with December 31, 2015 due primarily to decreases in municipal bond and foreign sovereign positions, partially offset by favorable market valuations of foreign sovereign and U.S. Treasury securities. Securities positions are held as economic hedges of interest rate and credit derivative products issued to customers of domestic and emerging markets. Balances of securities sold, not yet purchased increased compared with December 31, 2015 due to an increase in short U.S. Treasury positions related to economic hedges of derivatives in the interest rate trading portfolio.

Precious metals trading assets increased compared with December 31, 2015 driven by increases in our own gold and silver inventory positions held as hedges for client activity as well as higher spot prices. The higher payables for precious metals reflects 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 balances decreased slightly compared with December 31, 2015 as increased netting associated with an increase in central counterparty clearing was largely offset by market movements. Derivative liability balances increased compared with December 31, 2015 as the impact of increased netting was more than offset by market movements. Market movements resulted in higher valuations of interest rate derivatives and, to a lesser extent, foreign exchange derivatives which were partially offset by lower valuations of credit and equity derivatives. Market movements on commodity derivatives were mixed resulting in lower derivative asset valuations, but higher derivative liability valuations.

Securities Securities include securities available-for-sale and securities held-to-maturity. With regards to securities available for sale, balances will fluctuate between periods depending upon our liquidity position at the time. The increase in balances compared with December 31, 2015 largely reflects net purchases of longer term U.S. Treasury and U.S. Government sponsored mortgage-backed securities, partially offset by net sales of U.S. Government agency mortgage-backed securities as part of a continuing strategy to maximize returns while balancing the securities portfolio for risk management purposes based on the current interest rate environment and liquidity needs.

Other Assets Other assets includes intangibles and goodwill. Other assets increased compared with December 31, 2015 largely due to higher outstanding settlement balances related to security sales and, to a lesser extent, higher margin requirements related to futures trading, partially offset by lower tax assets. In March 2016, we initiated an active program to sell our remaining MSRs portfolio and, as a result, we now consider the MSRs portfolio and related servicing advances to be held for sale at June 30, 2016. See Note 9, "Other Assets Held for Sale," in the accompanying consolidated financial statements for additional details.

Deposits The following summarizes deposit balances by major depositor categories at June 30, 2016 and increases (decreases) since December 31, 2015:

	June 30, 2016	Increase (Decrease) From December 31, 2015	
		Amount	%
(dollars are in millions)			
Individuals, partnerships and corporations.....	\$ 117,293	\$ 14,440	14.0%
Domestic and foreign banks	14,081	(85)	(.6)
U.S. government and states and political subdivisions	628	(95)	(13.1)
Foreign governments and official institutions.....	817	(20)	(2.4)
Total deposits.....	<u>\$ 132,819</u>	<u>\$ 14,240</u>	<u>12.0%</u>
Total core deposits ⁽¹⁾	<u>\$ 97,752</u>	<u>\$ 7,289</u>	<u>8.1%</u>

⁽¹⁾ Core deposits, as calculated in accordance with Federal Financial Institutions Examination Council ("FFIEC") guidelines, generally include all domestic demand, money market and other savings accounts, as well as time deposits with balances not exceeding \$100,000.

Deposit balances increased since December 31, 2015 driven by higher deposits from affiliates, growth in commercial savings and demand deposits reflecting a focus on deposit growth through a continuation of executing a key strategy to grow our Global Liquidity and Cash Management business and increased wholesale time deposits driven by new issuances. The strategy for our core retail banking business includes building relationship deposits across multiple markets, channels and segments. This strategy involves various initiatives, such as:

- HSBC Premier, a comprehensive banking and wealth management proposition for the internationally minded mass affluent client with a dedicated premier relationship manager. Total Premier deposits increased to \$24,087 million at June 30, 2016 as compared with \$23,498 million at December 31, 2015; and
- Expanding our existing customer relationships by needs-based sales of wealth, banking and mortgage products.

We continue to actively manage our balance sheet to increase profitability while maintaining adequate liquidity.

Short-Term Borrowings Short-term borrowings increased compared with December 31, 2015 primarily due to a shift in mix which resulted in lower netting associated with securities sold under repurchase agreements as well as an increase in commercial paper outstanding used to meet short-term funding requirements.

Long-Term Debt Long-term debt increased compared with December 31, 2015 reflecting the impact of debt issuances, including increased borrowings from the Federal Home Loan Bank of New York ("FHLB"), partially offset by debt retirements. Debt issuances during the three and six months ended June 30, 2016 totaled \$787 million and \$2,559 million, respectively, of which \$0 million and \$1,103 million, respectively, was issued by HSBC Bank USA.

Incremental issuances from the HSBC Bank USA Global Bank Note Program totaled \$3 million during the six months ended June 30, 2016. Total debt outstanding under this program was \$4,467 million and \$4,476 million at June 30, 2016 and December 31, 2015, respectively. We anticipate using the Global Bank Note Program more in the future as part of our efforts designed to minimize overall funding costs while accessing diverse funding channels.

Incremental issuances from our shelf registration statement with the SEC totaled \$1,456 million of senior structured notes during the six months ended June 30, 2016. Total long-term debt outstanding under this shelf was \$21,471 million and \$21,415 million at June 30, 2016 and December 31, 2015, respectively.

Borrowings from the FHLB totaled \$6,700 million and \$5,600 million at June 30, 2016 and December 31, 2015, respectively.

All Other Liabilities All other liabilities increased compared with December 31, 2015 due primarily to higher outstanding settlement balances related to security purchases and, to a lesser extent, an increase in tax liabilities, partially offset by lower derivative balances associated with hedging activities and lower margin requirements related to futures trading.

Shareholders Equity During the second quarter of 2016, HSBC USA redeemed all of its remaining externally issued preferred stock, including its Floating Rate Non-Cumulative Series F Preferred Stock, Floating Rate Non-Cumulative Series G Preferred Stock and 6.50 percent Non-Cumulative Series H Preferred Stock, totaling \$1,265 million. In connection with these redemptions, HSBC USA issued \$1,265 million of 6.0 percent Non-Cumulative Series I Preferred Stock to HSBC North America. See Note 16, "Retained Earnings and Regulatory Capital Requirements," for additional details.

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. In the discussion that follows, interest income and rates are presented and analyzed on a taxable equivalent basis to permit comparisons of yields on tax-exempt and taxable assets. An analysis of consolidated average balances and interest rates on a taxable equivalent basis 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:

Three Months Ended June 30,	2016	2016 Compared to 2015 Increase (Decrease)		2015
		Volume	Rate	
(dollars are in millions)				
Interest income:				
Short-term investments	\$ 104	\$ 9	\$ 69	\$ 26
Trading securities.....	60	(11)	(20)	91
Securities.....	243	19	(1)	225
Commercial loans	387	3	50	334
Consumer loans	185	6	(2)	181
Other	1	(2)	(11)	14
Total interest income.....	<u>980</u>	<u>24</u>	<u>85</u>	871
Interest expense:				
Deposits	117	7	56	54
Short-term borrowings.....	21	(2)	12	11
Long-term debt	203	26	4	173
Tax liabilities and other	1	—	(4)	5
Total interest expense	<u>342</u>	<u>31</u>	<u>68</u>	243
Net interest income – taxable equivalent basis.....	<u>638</u>	<u>\$ (7)</u>	<u>\$ 17</u>	628
Less: tax equivalent adjustment.....	—			2
Net interest income – non taxable equivalent basis.....	<u>\$ 638</u>			<u>\$ 626</u>
Yield on total interest earning assets	<u>1.98%</u>			1.89%
Cost of total interest bearing liabilities.....	<u>.93</u>			.72
Interest rate spread.....	<u>1.05</u>			1.17
Benefit from net non-interest paying funds ⁽¹⁾	<u>.24</u>			.19
Net interest margin on average earning assets.....	<u>1.29%</u>			<u>1.36%</u>

Six Months Ended June 30,	2016	2016 Compared to 2015 Increase (Decrease)		2015
		Volume	Rate	
		(dollars are in millions)		
Interest income:				
Short-term investments	\$ 168	\$ 13	\$ 107	\$ 48
Trading securities	145	(28)	(13)	186
Securities	488	38	21	429
Commercial loans.....	765	26	85	654
Consumer loans	376	12	2	362
Other.....	19	(5)	(5)	29
Total interest income.....	<u>1,961</u>	<u>56</u>	<u>197</u>	<u>1,708</u>
Interest expense:				
Deposits	222	11	111	100
Short-term borrowings	39	(6)	23	22
Long-term debt.....	400	42	18	340
Tax liabilities and other.....	7	—	(1)	8
Total interest expense.....	<u>668</u>	<u>47</u>	<u>151</u>	<u>470</u>
Net interest income – taxable equivalent basis	<u>1,293</u>	<u>\$ 9</u>	<u>\$ 46</u>	<u>1,238</u>
Less: tax equivalent adjustment	<u>1</u>			<u>6</u>
Net interest income – non taxable equivalent basis	<u>\$1,292</u>			<u>\$1,232</u>
Yield on total interest earning assets	<u>2.03%</u>			<u>1.90%</u>
Cost of total interest bearing liabilities	<u>.94</u>			<u>.70</u>
Interest rate spread	<u>1.09</u>			<u>1.20</u>
Benefit from net non-interest paying funds ⁽¹⁾	<u>.24</u>			<u>.18</u>
Net interest margin on average earning assets	<u>1.33%</u>			<u>1.38%</u>

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

Net interest income increased during the three and six months ended June 30, 2016 driven primarily by the favorable impact of higher short-term market rates, with the higher variable loan and short-term investment income only partially offset by higher short-term deposit expense and lower interest income from trading securities.

Short-term investments Interest income increased during the three and six months ended June 30, 2016 due to a shift in mix towards higher yielding securities purchased under agreements to resell, higher yields on interest bearing deposits with banks driven by the impact of the Federal Reserve Bank rate increase in December 2015 and, to a lesser extent, higher average balances due to an increase in securities purchased under agreements to resell.

Trading securities Lower interest income during the three and six months ended June 30, 2016 was driven by decreases in higher yielding municipal bond and foreign sovereign positions which resulted in lower average securities balances overall as well as lower yields on foreign sovereign and U.S. Treasury securities. Securities in the trading portfolio are managed as economic hedges against the derivative activity of our customers. As a result, 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 was higher during the three and six months ended June 30, 2016 due primarily to higher average balances driven by net purchases of U.S. Treasury and U.S. Government sponsored mortgage-backed securities, partially offset by net sales of U.S. Government agency mortgage-backed securities and the sale of certain foreign debt securities. Also contributing to the increase in the year-to-date period was a shift in mix towards longer-term, higher yielding securities.

Commercial loans Interest income increased during the three and six months ended June 30, 2016 driven by higher yields reflecting the impact of rate increases on variable rate products and, to a lesser extent, higher average balances due to loan growth. Although yields are higher compared with the prior year periods, they continue to reflect market conditions and a focus on higher quality lending.

Consumer loans Interest income increased during the three and six months ended June 30, 2016 due to higher average balances driven by growth in residential mortgages. Yields on newly originated loans continue to reflect market conditions and a focus on higher quality lending.

Other The decrease in interest income during the three and six months ended June 30, 2016 reflects a lower dividend rate earned on Federal Reserve Bank stock and lower average balances due to a decrease in cash collateral posted.

Deposits Interest expense increased during the three and six months ended June 30, 2016 due primarily to higher rates paid on wholesale time deposits reflecting the impact of rate increases, higher rates paid on savings accounts driven by promotional offers to our retail customers and, to a lesser extent, higher average interest-bearing deposit balances overall.

Short-term borrowings Higher interest expense during the three and six months ended June 30, 2016 was driven by higher rates paid on these borrowings, partially offset by lower average borrowings.

Long-term debt Interest expense was higher during the three and six months ended June 30, 2016 largely due to higher average borrowings and, to a lesser extent, higher rates paid reflecting the impact of rate increases on variable rate borrowings and new issuances since the second quarter of 2015.

Tax liabilities and other Interest expense decreased during the three and six months ended June 30, 2016 reflecting a release of accrued interest associated with tax reserves on estimated exposures.

Provision for Credit Losses The following table summarizes the provision for credit losses associated with our various loan portfolios:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Commercial:				
Construction and other real estate	\$ (3)	\$ (3)	\$ —	— %
Business and corporate banking	4	(2)	6	*
Global banking	137	2	135	*
Other commercial	(1)	(3)	2	66.7
Total commercial	<u>\$ 137</u>	<u>\$ (6)</u>	<u>\$ 143</u>	<u>*</u>
Consumer:				
Residential mortgages	(7)	(6)	(1)	(16.7)
Home equity mortgages	(6)	—	(6)	*
Credit card receivables	9	4	5	*
Other consumer	1	2	(1)	(50.0)
Total consumer	<u>(3)</u>	<u>—</u>	<u>(3)</u>	<u>*</u>
Total provision for credit losses	<u>\$ 134</u>	<u>\$ (6)</u>	<u>\$ 140</u>	<u>*</u>
Provision as a percentage of average loans, annualized	<u>0.6%</u>	<u>— %</u>		

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Commercial:				
Construction and other real estate.....	\$ 6	\$ (1)	\$ 7	*
Business and corporate banking	(42)	22	(64)	*
Global banking.....	333	23	310	*
Other commercial	(4)	(2)	(2)	(100.0)%
Total commercial	<u>293</u>	<u>42</u>	<u>251</u>	<u>*</u>
Consumer:				
Residential mortgages.....	(16)	(6)	(10)	*
Home equity mortgages	(3)	(2)	(1)	(50.0)
Credit cards	14	7	7	100.0
Other consumer.....	3	6	(3)	(50.0)
Total consumer.....	<u>(2)</u>	<u>5</u>	<u>(7)</u>	<u>*</u>
Total provision for credit losses.....	<u>\$ 291</u>	<u>\$ 47</u>	<u>\$ 244</u>	<u>*</u>
Provision as a percentage of average loans, annualized.....	<u>0.7%</u>	<u>0.1 %</u>		

* Not meaningful.

Our provision for credit losses increased \$140 million and \$244 million during the three and six months ended June 30, 2016, respectively, due to a higher provision for credit losses in our commercial loan portfolio, partially offset by a lower provision for credit losses in our consumer loan portfolio. During the three and six months ended June 30, 2016, we increased our allowance for credit losses as the provision for credit losses was higher than net charge-offs by \$40 million and \$151 million, respectively.

The provision for credit losses in our commercial loan portfolio increased \$143 million and \$251 million during the three and six months ended June 30, 2016, respectively, driven by higher provisions associated with the downgrade of a single mining customer relationship and, in the year-to-date period, other downgrades reflecting weaknesses in the financial condition of certain customer relationships, including higher provisions associated with mining and other industry loan exposures. We will continue to monitor our exposure with regard to the mining customer relationship discussed above and, as a result, further adjustments to our credit loss reserves may be required in future periods.

The provision for credit losses on residential mortgages including home equity mortgages decreased \$7 million and \$11 million during the three and six months ended June 30, 2016, respectively, due primarily to a release of reserves driven by improved loss estimates associated with certain home equity mortgages and, in the year-to-date period, a release of reserves related to certain residential mortgages serviced by others as a result of updated information regarding the underlying loan characteristics being reported by the servicers. Lower residential mortgage provision in both periods also reflect the impact of continued improvements in economic and credit conditions and the continued origination of higher quality Premier mortgages which are an increasingly larger portion of the portfolio, partially offset by the non-recurrence of a reduction to our residential mortgage allowance for credit losses recorded in the prior year periods associated with the remediation of certain mortgage servicing activities.

The provision for credit losses associated with credit cards increased \$5 million and \$7 million during the three and six months ended June 30, 2016, respectively, as the positive impacts from continued improvements in economic and credit conditions, including improvements in delinquency roll rates, were more pronounced in the prior year periods. While the provision for credit losses associated with other consumer loans was relatively flat during the three months ended June 30, 2016, it decreased \$3 million in the year-to-date period as the prior year period reflects the transfer of a small student loan portfolio to held for sale.

Our methodology and accounting policies related to the allowance for credit losses are presented in our 2015 Form 10-K under the caption "Critical Accounting Policies and Estimates" and in Note 2, "Summary of Significant Accounting Policies and New Accounting Pronouncements." 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:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Credit card fees	\$ 13	\$ 11	\$ 2	18.2 %
Trust and investment management fees	39	46	(7)	(15.2)
Other fees and commissions	177	190	(13)	(6.8)
Trading revenue	49	24	25	*
Other securities gains, net	36	35	1	2.9
Servicing and other fees from HSBC affiliates.....	51	53	(2)	(3.8)
Residential mortgage banking revenue.....	10	15	(5)	(33.3)
Gain (loss) on instruments designated at fair value and related derivatives	(38)	56	(94)	*
Other income (loss):				
Valuation of loans held for sale.....	(12)	(3)	(9)	*
Insurance	6	7	(1)	(14.3)
Miscellaneous income (loss).....	(38)	(31)	(7)	(22.6)
Total other income (loss).....	(44)	(27)	(17)	(63.0)
Total other revenues.....	\$ 293	\$ 403	\$ (110)	(27.3)%

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(in millions)				
Credit card fees	\$ 27	\$ 21	\$ 6	28.6 %
Trust and investment management fees	78	81	(3)	(3.7)
Other fees and commissions	342	372	(30)	(8.1)
Trading revenue	65	57	8	14.0
Other securities gains, net	65	58	7	12.1
Servicing and other fees from HSBC affiliates.....	105	109	(4)	(3.7)
Residential mortgage banking revenue.....	27	34	(7)	(20.6)
Gain (loss) on instruments designated at fair value and related derivatives	178	141	37	26.2
Other income (loss):				
Valuation of loans held for sale.....	(71)	(9)	(62)	*
Insurance	10	12	(2)	(16.7)
Miscellaneous income (loss).....	(71)	(9)	(62)	*
Total other income (loss).....	(132)	(6)	(126)	*
Total other revenues.....	\$ 755	\$ 867	\$ (112)	(12.9)%

* Not meaningful.

Credit card fees Credit card fees were higher during the three and six months ended June 30, 2016 due primarily to lower cost estimates associated with our credit card rewards program.

Trust and investment management fees Trust and investment management fees decreased during the three and six months ended June 30, 2016 driven by lower investment management fees associated with our Private Banking business reflecting a decline in assets under management.

Other fees and commissions The following table summarizes the components of other fees and commissions:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Account services.....	\$ 72	\$ 72	\$ —	— %
Credit facilities.....	81	97	(16)	(16.5)
Custodial fees.....	5	5	—	—
Other fees.....	19	16	3	18.8
Total other fees and commissions.....	<u>\$ 177</u>	<u>\$ 190</u>	<u>\$ (13)</u>	<u>(6.8)%</u>

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(in millions)				
Account services.....	\$ 141	\$ 141	\$ —	— %
Credit facilities.....	157	173	(16)	(9.2)
Custodial fees.....	10	8	2	25.0
Other fees.....	34	50	(16)	(32.0)
Total other fees and commissions.....	<u>\$ 342</u>	<u>\$ 372</u>	<u>\$ (30)</u>	<u>(8.1)%</u>

Other fees and commissions decreased in the three and six months ended June 30, 2016 reflecting a slowdown in commercial lending activity compared with the prior year periods which resulted in lower credit facility fees and, in the year-to-date period, lower other fee based income.

Trading revenue Trading revenue is generated by participation in the foreign exchange, rates, credit, equities and precious metals markets. The following table presents trading revenue by business activity. Not included in the table below is the impact of net interest income related to trading activities which is an integral part of trading activities' overall performance. Net interest income related to trading activities is recorded in net interest income in the consolidated statement of income (loss). Trading revenues related to the mortgage banking business are included in residential mortgage banking revenue.

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Business Activities:				
Derivatives ⁽¹⁾	\$ (23)	\$ (38)	\$ 15	39.5%
Balance Sheet Management.....	4	(7)	11	*
Foreign exchange.....	58	57	1	1.8
Precious metals.....	9	14	(5)	(35.7)
Capital Financing.....	—	(2)	2	100.0
Other trading.....	1	—	1	*
Total trading revenue.....	<u>\$ 49</u>	<u>\$ 24</u>	<u>\$ 25</u>	<u>*</u>

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
	(in millions)			
Business Activities:				
Derivatives ⁽¹⁾	\$ (54)	\$ (61)	\$ 7	11.5%
Balance Sheet Management.....	1	(15)	16	*
Foreign exchange.....	102	113	(11)	(9.7)
Precious metals	20	29	(9)	(31.0)
Capital Financing.....	(4)	(6)	2	33.3
Other trading.....	—	(3)	3	100.0
Total trading revenue.....	<u>\$ 65</u>	<u>\$ 57</u>	<u>\$ 8</u>	<u>14.0%</u>

* Not meaningful.

⁽¹⁾ Includes derivative contracts related to credit default and cross-currency swaps, equities, interest rates and structured credit products.

Trading revenue increased during the three and six months ended June 30, 2016 largely driven by the improved performance of derivative products and Balance Sheet Management, partially offset by lower revenue from precious metals and, in the year-to-date period, foreign exchange.

Trading revenue from derivative products improved during the three and six months ended June 30, 2016 reflecting higher new deal activity on our domestic interest rate products, partially offset by the impact of debit valuation adjustments associated with movements in our own credit spreads. While the performance of legacy structured credit products resulted in higher valuation gains during the three months ended June 30, 2016, performance was weaker in the year-to-date period. The negative derivative trading revenue overall is partially offset within net interest income as certain derivatives, such as total return swaps, were economically hedged by holding the underlying referenced assets.

Trading revenue related to Balance Sheet Management activities improved during the three and six months ended June 30, 2016 due to the performance of economic hedge positions used to manage interest rate risk.

Foreign exchange trading revenue was relatively flat during the three months ended June 30, 2016. In the year-to-date period, foreign exchange trading revenue was lower due primarily to lower client trade activity.

Precious metals trading revenue decreased during the three and six months ended June 30, 2016 due to declining trade volumes from reduced investor demand for this asset class.

Capital Financing revenue improved during the three and six months ended June 30, 2016 reflecting lower losses related to valuation adjustments on credit default swap hedge positions.

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, 2016, we sold \$8,632 million and \$12,671 million, respectively, of primarily U.S. Treasury and U.S. Government agency mortgage-backed securities compared with sales of \$3,201 million and \$8,692 million during the prior year periods as part of a continuing strategy to maximize returns while balancing the securities portfolio for risk management purposes based on the current interest rate environment and liquidity needs. While relatively flat in the three months ended June 30, 2016, other securities gains, net increased in the year-to-date period due primarily to gains from the sale of certain longer term state municipal bonds as we reduced these positions during the first quarter of 2016. The gross realized gains and losses from sales of securities in both periods, which is included as a component of other securities gains, net above, are summarized in Note 3, "Securities," in the accompanying consolidated financial statements.

Servicing and other fees from HSBC affiliates Affiliate income decreased in the three and six months ended June 30, 2016 reflecting lower fees associated with residential mortgage servicing activities performed on behalf of HSBC Finance, partially offset by higher income from certain performance based activity and, in the year-to-date period, higher fees related to supporting growth initiatives in the Global Liquidity and Cash Management business.

Residential mortgage banking revenue The following table presents the components of residential mortgage banking revenue. Net interest income related to residential mortgage banking is recorded in net interest income in the consolidated statement of income (loss). In March 2016, we initiated an active program to sell our remaining MSR portfolio and, as a result, we now consider the MSR portfolio to be held for sale at June 30, 2016.

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Servicing related income:				
Servicing fee income	\$ 12	\$ 15	\$ (3)	(20.0)%
Changes in fair value of MSRs due to:.....				
Changes in valuation model inputs or assumptions	(8)	19	(27)	*
Customer payments	(5)	(1)	(4)	*
Trading – Derivative instruments used to offset changes in value of MSRs	12	(18)	30	*
Total servicing related income.....	<u>11</u>	<u>15</u>	<u>(4)</u>	<u>(26.7)</u>
Originations and sales related loss:				
Losses on sales of residential mortgages.....	(4)	(3)	(1)	(33.3)
Recovery for repurchase obligations	3	1	2	*
Total originations and sales related loss	<u>(1)</u>	<u>(2)</u>	<u>1</u>	<u>50.0</u>
Other mortgage income	—	2	(2)	(100.0)
Total residential mortgage banking revenue	<u>\$ 10</u>	<u>\$ 15</u>	<u>\$ (5)</u>	<u>(33.3)%</u>

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(in millions)				
Servicing related income:				
Servicing fee income	\$ 25	\$ 30	\$ (5)	(16.7)%
Changes in fair value of MSRs due to:.....				
Changes in valuation model inputs or assumptions	(24)	8	(32)	*
Customer payments	(12)	(9)	(3)	(33.3)
Trading – Derivative instruments used to offset changes in value of MSRs	43	6	37	*
Total servicing related income.....	<u>32</u>	<u>35</u>	<u>(3)</u>	<u>(8.6)</u>
Originations and sales related loss:				
Losses on sales of residential mortgages.....	(9)	(9)	—	—
Recovery for repurchase obligations	3	5	(2)	(40.0)
Total originations and sales related loss	<u>(6)</u>	<u>(4)</u>	<u>(2)</u>	<u>(50.0)</u>
Other mortgage income	1	3	(2)	(66.7)
Total residential mortgage banking revenue	<u>\$ 27</u>	<u>\$ 34</u>	<u>\$ (7)</u>	<u>(20.6)%</u>

* Not meaningful.

Total residential mortgage banking revenue decreased in the three and six months ended June 30, 2016 largely due to lower servicing fees resulting from the planned run-off of our average serviced portfolio and, in the year-to-date period, a lower recovery for repurchase obligations associated with loans previously sold. As a result of our strategic relationship with PHH Mortgage, we no longer add new volume to our serviced portfolio as all agency eligible loans are sold to PHH Mortgage on a servicing released basis. Net hedged MSR results were relatively flat in the three and six months ended June 30, 2016 as higher valuation losses associated with declining mortgage rates and the declining servicing portfolio were offset by higher returns from instruments used to hedge changes in the fair value of the MSRs.

Gain (loss) 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 securities purchased and sold under resale and repurchase agreements, certain own fixed-rate debt issuances and all of our hybrid instruments issued, including structured notes and structured deposits. We also

use derivatives to economically hedge the interest rate risk associated with certain financial instruments for which fair value option accounting has been elected. Gain (loss) on instruments designated at fair value and related derivatives decreased in the three months ended June 30, 2016 and increased in the year-to-date period attributable primarily to the movement of our own credit spreads associated with our own debt which tightened in the three month period and widened in the year-to-date period. Both prior-year periods also reflect the non-recurrence of a net loss recorded during the second quarter of 2015 related to changes in estimates associated with the valuation techniques used to measure the fair value of certain structured notes and deposits. See Note 11, "Fair Value Option," in the accompanying consolidated financial statements for additional information including a breakout of these amounts by individual component.

Other income (loss) Other income (loss) decreased during the three and six months ended June 30, 2016 due primarily to losses in the current year periods associated with fair value hedge ineffectiveness compared with gains in the prior year periods and higher losses from valuation write-downs on loans held for sale, partially offset by higher income related to bank owned life insurance. In addition, while we incurred losses in both periods associated with credit default swap protection which largely reflects the hedging of a single client exposure, these losses were higher in the year-to-date period and lower in the three month period.

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

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Salary and employee benefits	\$ 242	\$ 267	\$ (25)	(9.4)%
Support services from HSBC affiliates:				
Fees paid to HSBC Markets (USA) Inc. ("HMUS").....	55	69	(14)	(20.3)
Fees paid to HSBC Technology and Services (USA) ("HTSU").....	253	264	(11)	(4.2)
Fees paid to other HSBC affiliates.....	47	52	(5)	(9.6)
Total support services from HSBC affiliates.....	355	385	(30)	(7.8)
Occupancy expense, net.....	57	59	(2)	(3.4)
Other expenses:				
Equipment and software.....	11	13	(2)	(15.4)
Marketing	15	16	(1)	(6.3)
Outside services	25	22	3	13.6
Professional fees	28	31	(3)	(9.7)
Off-balance sheet credit reserves	24	1	23	*
Federal Deposit Insurance Corporation ("FDIC") assessment fee.....	41	28	13	46.4
Miscellaneous.....	25	28	(3)	(10.7)
Total other expenses.....	169	139	30	21.6
Total operating expenses.....	\$ 823	\$ 850	\$ (27)	(3.2)%
Personnel - average number.....	5,612	6,078		
Efficiency ratio.....	88.4%	82.6%		
(dollars are in millions)				
Six Months Ended June 30,				
	2016	2015	Amount	%
Salary and employee benefits	\$ 483	\$ 513	\$ (30)	(5.8)%
Support services from HSBC affiliates:				
Fees paid to HMUS.....	108	133	(25)	(18.8)
Fees paid to HTSU	482	504	(22)	(4.4)
Fees paid to other HSBC affiliates.....	85	100	(15)	(15.0)
Total support services from HSBC affiliates.....	675	737	(62)	(8.4)
Occupancy expense, net.....	116	115	1	.9
Other expenses:				
Equipment and software.....	22	25	(3)	(12.0)
Marketing	28	32	(4)	(12.5)
Outside services	45	43	2	4.7
Professional fees	51	52	(1)	(1.9)
Off-balance sheet credit reserves	30	3	27	*
FDIC assessment fee	74	59	15	25.4
Miscellaneous.....	25	48	(23)	(47.9)
Total other expenses.....	275	262	13	5.0
Total operating expenses.....	\$ 1,549	\$ 1,627	\$ (78)	(4.8)%
Personnel - average number.....	5,688	6,067		
Efficiency ratio.....	75.7%	77.5%		

* Not meaningful.

Salaries and employee benefits Salaries and employee benefits were lower during the three and six months ended June 30, 2016 due to lower incentive compensation expense, partially offset by higher pension costs. Despite a decline in the average number of personnel driven by continued cost management efforts including targeted staff reductions across all of our businesses to optimize staffing and improve efficiency as well as a reduction in staff performing residential mortgage servicing activities on behalf of HSBC Finance, the impact of these decreases were offset by the addition of higher cost personnel associated with growth initiatives in certain businesses, strengthening controls and the implementation of the highest and most effective global standards in combating financial crime.

Support services from HSBC affiliates Support services from HSBC affiliates decreased during the three and six months ended June 30, 2016 due primarily to the favorable impact of cost management efforts including staff optimization in our technology and corporate support service functions, lower compliance costs, and lower costs associated with business systems reflecting the completion of certain projects. A summary of the activities charged to us from various HSBC affiliates is included in Note 14, "Related Party Transactions," in the accompanying consolidated financial statements.

Occupancy expense, net Occupancy expense was relatively flat during the three and six months ended June 30, 2016.

Other expenses Other expenses increased during the three and six months ended June 30, 2016 reflecting higher off-balance sheet credit reserves due to downgrades and higher deposit insurance assessment fees, partially offset by lower losses associated with card fraud, lower travel expenses, and higher levels of expense capitalization related to internally developed software.

Efficiency ratio Our efficiency ratio was 88.4 percent and 75.7 percent during the three and six months ended June 30, 2016, respectively, compared with 82.6 percent and 77.5 percent during the prior year periods. Our efficiency ratio was impacted in each period by the change in the fair value of our own debt attributable to credit spread for which we have elected fair value option accounting which is reported as a component of total other revenues in our consolidated statement of income (loss). Excluding the impact of this item, our efficiency ratio improved during the three and six months ended June 30, 2016 due to lower operating expenses and higher net interest income, partially offset by lower other revenues.

Income taxes The following table provides an analysis of the difference between effective rates based on the total income tax provision attributable to pretax income and the statutory U.S. Federal income tax rate:

Three Months Ended June 30,	2016		2015			
	(dollars are in millions)					
Tax expense (benefit) at the U.S. Federal statutory income tax rate.....	\$	(9)	35.0%	\$	65	35.0%
Increase (decrease) in rate resulting from:						
State and local taxes, net of Federal benefit.....		2	(7.7)		1	0.5
Adjustment of tax rate used to value deferred taxes ⁽¹⁾		—	—		53	28.6
Low income housing tax credit investments		—	—		(5)	(2.7)
Other.....		2	(7.7)		(16)	(8.6)
Total income tax expense (benefit).....	\$	(5)	19.2%	\$	98	53.0%
<hr/>						
Six Months Ended June 30,	2016		2015			
	(dollars are in millions)					
Tax expense at the U.S. Federal statutory income tax rate.....	\$	72	35.0%	\$	149	35.0%
Increase (decrease) in rate resulting from:						
State and local taxes, net of Federal benefit.....		8	3.9		11	2.6
Adjustment of tax rate used to value deferred taxes ⁽¹⁾		—	—		53	12.5
Low income housing tax credit investments.....		(8)	(3.9)		(11)	(2.6)
Other.....		2	1.0		(28)	(6.6)
Total income tax expense.....	\$	74	35.7%	\$	174	40.9%

⁽¹⁾ For 2015, the amounts mainly relate to the effects of revaluing our deferred tax assets for New York City Tax Reform that was enacted on April 13, 2015 which resulted in a decrease to our net deferred tax asset of approximately \$48 million in the second quarter of 2015.

In April 2016, the U.S. Treasury and the Internal Revenue Service released proposed regulations aimed at reducing the benefits and limiting the number of corporate tax inversions. The proposed regulations also include provisions intended to reduce the benefits of earnings stripping by addressing the treatment of certain corporate instruments as stock or indebtedness. Under the proposed regulations, certain intercompany indebtedness is subject to recharacterization as equity, which would have several collateral impacts for tax purposes. The proposed regulations were subject to significant comment, and the timing for the issuance

of final regulations, and their application, is highly uncertain. We will continue to monitor and review the potential impact of the proposed regulations on HSBC North America and its subsidiary entities including us.

Segment Results – Group Reporting Basis

We have four distinct business segments that are utilized for management reporting and analysis purposes which are aligned with HSBC's global businesses and business strategy: Retail Banking and Wealth Management ("RBWM"), Commercial Banking ("CMB"), Global Banking and Markets ("GB&M") and Private Banking ("PB"). The segments, which are generally based upon customer groupings and global businesses, are described under Item 1, "Business," in our 2015 Form 10-K.

We previously announced that with effect from January 1, 2016, a portion of our Business Banking client group, generally representing those small business customers with \$3 million or less in annual revenue (now referred to as Retail Business Banking), would be better managed as part of RBWM rather than CMB given the similarities in their banking activities with the RBWM customer base. Therefore, to coincide with the change in our management reporting effective beginning in the first quarter of 2016, we have included the results of Retail Business Banking in the RBWM segment for all periods presented. As a result, loss before tax for the RBWM segment increased \$8 million and \$16 million during the three and six months ended June 30, 2015, respectively. There have been no other changes in the basis of our segmentation or measurement of segment profit as compared with the presentation in our 2015 Form 10-K.

During the first half of 2016, we determined that a portion of our Large Corporate client group, generally representing those large business customers with more complex banking activities which require the levels of support routinely provided by relationship managers in GB&M, would be better managed as part of GB&M rather than CMB. We currently anticipate this transfer will occur effective October 1, 2016. Therefore, beginning in the fourth quarter of 2016, we will include the results of the transferred client relationships in the GB&M segment.

We report financial information to our parent, HSBC, in accordance with HSBC Group accounting and reporting policies, which apply IFRS issued by the IASB and as endorsed by the EU, and, 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") as operating results are monitored and reviewed, trends are evaluated and decisions about allocating resources, such as employees, are primarily made on this basis. However, we continue to monitor capital adequacy and report to regulatory agencies on a U.S. GAAP basis. The significant differences between U.S. GAAP and the Group Reporting Basis as they impact our results are summarized in Note 22, "Business Segments," and under the caption "Basis of Reporting" in the MD&A section of our 2015 Form 10-K.

We are currently in the process of re-evaluating the financial information used to manage our businesses, including the scope and content of the U.S. GAAP financial data being reported to our Management and our Board. To the extent we make changes to this reporting in 2016, we will evaluate any impact such changes may have on our segment reporting.

Retail Banking and Wealth Management RBWM provides banking and wealth management services for our personal customers, focusing on internationally minded clients in large metropolitan centers on the West and East coasts.

During the first half of 2016, we continued to direct resources towards the development and delivery of premium service. Particular focus has been placed on HSBC Premier, HSBC's global banking service that was re-launched in 2014 and offers customers a seamless international service, and HSBC Advance, a proposition directed towards the emerging affluent client in the initial stages of wealth accumulation.

Consistent with our strategy, the growth of our residential mortgage portfolio is driven primarily by lending to our Premier and Advance customers. Following the conversion of our mortgage processing and servicing operations to PHH Mortgage in 2013, we sell our agency eligible originations directly to PHH Mortgage on a servicing released basis, resulting in no new mortgage servicing rights being recognized.

The following table summarizes the Group Reporting Basis results for our RBWM segment:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest income.....	\$ 204	\$ 199	\$ 5	2.5%
Other operating income	77	87	(10)	(11.5)
Total operating income ⁽¹⁾	281	286	(5)	(1.7)
Loan impairment charges	9	15	(6)	(40.0)
Net operating income	272	271	1	.4
Operating expenses.....	268	313	(45)	(14.4)
Profit (loss) before tax	\$ 4	\$ (42)	\$ 46	*
Increase (Decrease)				
Six Months Ended June 30,	2016	2015	Amount	%
(dollars are in millions)				
Net interest income.....	\$ 405	\$ 400	\$ 5	1.3%
Other operating income	157	175	(18)	(10.3)
Total operating income ⁽¹⁾	562	575	(13)	(2.3)
Loan impairment charges	25	37	(12)	(32.4)
Net operating income	537	538	(1)	(.2)
Operating expenses.....	527	607	(80)	(13.2)
Profit (loss) before tax	\$ 10	\$ (69)	\$ 79	*

* Not meaningful.

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

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Current account, savings and deposits	\$ 139	\$ 133	\$ 6	4.5 %
Mortgages, credit cards and other personal lending	96	104	(8)	(7.7)
Wealth and asset management products.....	31	35	(4)	(11.4)
Other ⁽²⁾	15	14	1	7.1
Total operating income	\$ 281	\$ 286	\$ (5)	(1.7)%
Increase (Decrease)				
Six Months Ended June 30,	2016	2015	Amount	%
(dollars are in millions)				
Current account, savings and deposits	\$ 270	\$ 264	\$ 6	2.3 %
Mortgages, credit cards and other personal lending	199	207	(8)	(3.9)
Wealth and asset management products.....	60	67	(7)	(10.4)
Other ⁽²⁾	33	37	(4)	(10.8)
Total operating income	\$ 562	\$ 575	\$ (13)	(2.3)%

⁽²⁾ Other primarily includes fees associated with residential mortgage servicing activities performed on behalf of HSBC Finance and revenue associated with certain residential mortgage loans, which we purchased from HSBC Finance in 2003 and 2004.

Our RBWM segment reported a profit before tax during the three and six months ended June 30, 2016 compared with a loss before tax during the prior year periods driven by higher net interest income, lower loan impairment charges and lower operating expenses, partially offset by lower other operating income.

Net interest income increased during the three and six months ended June 30, 2016 largely driven by higher net interest income from deposits due to higher average balances and improved spreads, partially offset by lower net interest income from lending. Net interest income from lending declined as the impact from growth in residential mortgage average balances was more than offset by a declining home equity mortgage portfolio and lower spreads.

Other operating income decreased during the three and six months ended June 30, 2016 due largely to lower servicing fees resulting from the planned run-off of our average serviced portfolio, lower fees associated with residential mortgage servicing activities performed on behalf of HSBC Finance and, in the year-to-date period, a lower recovery for repurchase obligations associated with loans previously sold.

Loan impairment charges decreased during the three and six months ended June 30, 2016 due primarily to a release of reserves driven by improved loss estimates associated with certain home equity mortgages and, in the year-to-date period, a release of reserves related to certain residential mortgages serviced by others as a result of updated information regarding the underlying loan characteristics being reported by the servicers. Lower loan impairment charges in both periods also reflect the impact of continued improvements in economic and credit conditions and the continued origination of higher quality Premier mortgages which are an increasingly larger portion of the portfolio, partially offset by the non-recurrence of a reduction to our residential mortgage allowance for credit losses recorded in the prior year periods associated with the remediation of certain mortgage servicing activities.

Operating expenses decreased during the three and six months ended June 30, 2016 driven by lower litigation expense and the impact of continued cost management efforts including targeted staff reductions to optimize staffing and improve efficiency.

Commercial Banking CMB offers a full range of commercial financial services and tailored solutions to enable customers to grow their businesses, focusing on key markets with high concentrations of international connectivity.

Total quarter-to-date average loans outstanding, including loans held for sale, decreased 1 percent across all CMB client groups as compared with the second quarter of 2015 as we directed efforts on deepening relationships with existing customers along with more focused lending to new customers in order to optimize returns. In addition, total quarter-to-date average deposits outstanding increased 8 percent across all CMB client groups as compared with the second quarter of 2015 which reflects executing a key strategy to grow the Global Liquidity and Cash Management business through our international network.

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

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest income.....	\$ 205	\$ 207	\$ (2)	(1.0)%
Other operating income.....	67	70	(3)	(4.3)
Total operating income.....	272	277	(5)	(1.8)
Loan impairment charges.....	18	4	14	*
Net operating income.....	254	273	(19)	(7.0)
Operating expenses.....	166	172	(6)	(3.5)
Profit before tax.....	\$ 88	\$ 101	\$ (13)	(12.9)%
(dollars are in millions)				
Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest income.....	\$ 418	\$ 404	\$ 14	3.5 %
Other operating income.....	140	146	(6)	(4.1)
Total operating income ⁽¹⁾	558	550	8	1.5
Loan impairment charges.....	31	14	17	*
Net operating income.....	527	536	(9)	(1.7)
Operating expenses.....	328	328	—	—
Profit before tax.....	\$ 199	\$ 208	\$ (9)	(4.3)%

* Not meaningful.

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

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Credit and Lending	\$ 145	\$ 143	\$ 2	1.4 %
Global Liquidity and Cash Management, current accounts and savings deposits.....	101	104	(3)	(2.9)
Global Trade and Receivables Finance.....	15	21	(6)	(28.6)
Global Banking & Markets products and other.....	11	9	2	22.2
Total operating income	<u>\$ 272</u>	<u>\$ 277</u>	<u>\$ (5)</u>	<u>(1.8)%</u>

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Credit and Lending	\$ 296	\$ 279	\$ 17	6.1 %
Global Liquidity and Cash Management, current accounts and savings deposits.....	205	207	(2)	(1.0)
Global Trade and Receivables Finance.....	31	42	(11)	(26.2)
Global Banking & Markets products and other.....	26	22	4	18.2
Total operating income	<u>\$ 558</u>	<u>\$ 550</u>	<u>\$ 8</u>	<u>1.5 %</u>

Our CMB segment reported a lower profit before tax during the three and six months ended June 30, 2016 largely driven by lower other operating income and higher loan impairment charges, partially offset by lower operating expenses in the three month period and higher net interest income in the year-to-date period.

Net interest income decreased during the three months ended June 30, 2016 due to lower loan balances in Credit and Lending and higher funding costs. This decrease was more than offset in the year-to-date period due to the favorable impacts of growth in deposit balances in Global Liquidity and Cash Management as well as interest rate increases in December 2015 resulting in improved spreads on both deposits and loans.

Other operating income was lower during the three and six months ended June 30, 2016 due primarily to lower fee based income reflecting a slowdown in commercial lending activity compared with the prior year periods.

Loan impairment charges were higher during the three and six months ended June 30, 2016 due to higher loss estimates associated with downgrades reflecting weaknesses in the financial condition of certain customer relationships.

Operating expenses decreased during the three months ended June 30, 2016 driven by the impact of cost management efforts including targeted staff reductions to optimize staffing and improve efficiency. This decrease was partially offset in the three month period and offset in the year-to-date period by higher deposit insurance assessment fees.

Global Banking and Markets GB&M provides tailored financial solutions to major government, corporate and institutional clients worldwide.

We continue to target U.S. companies with international banking requirements and foreign companies with banking needs in the Americas. Consistent with our global strategy, we are also focused on identifying opportunities to cross-sell our products to CMB and RBWM customers.

The following table summarizes the Group Reporting Basis results for the GB&M segment:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest income.....	\$ 190	\$ 132	\$ 58	43.9%
Other operating income	178	219	(41)	(18.7)
Total operating income ⁽¹⁾	368	351	17	4.8
Loan impairment charges	150	4	146	*
Net operating income	218	347	(129)	(37.2)
Operating expenses.....	249	264	(15)	(5.7)
Profit (loss) before tax	\$ (31)	\$ 83	\$ (114)	*
(dollars are in millions)				
Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest income.....	\$ 366	\$ 250	\$ 116	46.4%
Other operating income	397	485	(88)	(18.1)
Total operating income ⁽¹⁾	763	735	28	3.8
Loan impairment charges	354	12	342	*
Net operating income	409	723	(314)	(43.4)
Operating expenses.....	473	523	(50)	(9.6)
Profit (loss) before tax	\$ (64)	\$ 200	\$ (264)	*

* Not meaningful.

(1) The following table summarizes the impact of key activities on the total operating income of the GB&M segment:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Credit ⁽²⁾	\$ 40	\$ 12	\$ 28	*
Rates.....	8	(42)	50	*
Foreign Exchange and Metals.....	69	61	8	13.1
Equities	2	57	(55)	(96.5)
Total Global Markets	<u>119</u>	<u>88</u>	<u>31</u>	<u>35.2</u>
Capital Financing	62	38	24	63.2
Global Liquidity and Cash Management	101	101	—	—
Securities Services	5	4	1	25.0
Global Trade and Receivables Finance.....	14	14	—	—
Balance Sheet Management ⁽³⁾	89	106	(17)	(16.0)
Debit Valuation Adjustment.....	(6)	8	(14)	*
Other ⁽⁴⁾	(16)	(8)	(8)	(100.0)
Total operating income	<u>\$ 368</u>	<u>\$ 351</u>	<u>\$ 17</u>	<u>4.8%</u>

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Credit ⁽²⁾	\$ 32	\$ 19	\$ 13	68.4%
Rates.....	68	(2)	70	*
Foreign Exchange and Metals.....	123	128	(5)	(3.9)
Equities	38	74	(36)	(48.6)
Total Global Markets	<u>261</u>	<u>219</u>	<u>42</u>	<u>19.2</u>
Capital Financing	124	127	(3)	(2.4)
Global Liquidity and Cash Management	203	191	12	6.3
Securities Services	10	7	3	42.9
Global Trade and Receivables Finance.....	29	27	2	7.4
Balance Sheet Management ⁽³⁾	152	170	(18)	(10.6)
Debit Valuation Adjustment.....	12	16	(4)	(25.0)
Other ⁽⁴⁾	(28)	(22)	(6)	(27.3)
Total operating income	<u>\$ 763</u>	<u>\$ 735</u>	<u>\$ 28</u>	<u>3.8%</u>

(2) Credit includes gains of \$20 million and losses of \$2 million in the three and six months ended June 30, 2016, respectively, compared with gains of \$1 million and \$2 million in the three and six months ended June 30, 2015, respectively, of operating income related to structured credit products and mortgage loans held for sale which we no longer offer.

(3) Includes gains on the sale of securities of \$36 million and \$62 million in the three and six months ended June 30, 2016, respectively, compared with gains of \$35 million and \$58 million in the three and six months ended June 30, 2015, respectively.

(4) Other includes corporate funding charges, net interest income on capital held in the business and not assigned to products, and interest rate transfer pricing differences.

Our GB&M segment reported lower profit before tax during the three and six months ended June 30, 2016 driven by lower other operating income and higher loan impairment charges, partially offset by higher net interest income and lower operating expenses.

Credit revenue improved during the three and six months ended June 30, 2016 due to higher revenue from collateralized financing related activity and, in the three month period, higher valuation gains from the performance of legacy credit products. Changes in the fair value of legacy structured credit products resulted in gains of \$20 million and losses of \$2 million during the three and six months ended June 30, 2016, respectively, compared with gains of \$1 million and \$2 million during the prior year periods. Included in the changes in fair value from structured credit products were increases in fair value of \$14 million and \$13 million during the three and six months ended June 30, 2016, respectively, related to exposures to monoline insurance companies, compared with decreases of \$9 million and \$5 million during the prior year periods.

Revenue from Rates improved during the three and six months ended June 30, 2016 due primarily to fair value adjustments on certain rate linked structured notes, including the non-recurrence of a loss recorded in the prior year periods related to changes in estimates associated with the valuation techniques used to measure the fair value of these liabilities and the impact of movements in our own credit spreads, as well as higher new deal activity on domestic interest rate products.

Foreign Exchange and Metals revenue increased during the three months ended June 30, 2016 primarily due to higher affiliate income from certain performance based activity. This increase was more than offset in the year-to-date period by lower foreign exchange trading volumes and price volatility as well as lower metals related client activity on domestic interest rate products.

The decrease in Equities during the three and six months ended June 30, 2016 was due primarily to fair value adjustments on certain equity linked structured liabilities, including the impact of movements in our own credit spreads and the non-recurrence of a gain recorded in the prior year periods related to changes in estimates associated with the valuation techniques used to measure the fair value of these liabilities.

Capital Financing revenue increased during the three months ended June 30, 2016 due to higher net interest income driven by improved loan spreads as well as lower losses associated with credit default swap protection which largely reflects the hedging of a single client exposure, partially offset by lower event financing fees. In the year-to-date period, Capital Financing revenue decreased as higher net interest income was more than offset by lower event financing fees and higher losses associated with credit default swap protection.

Global Liquidity and Cash Management revenue remained flat during the three months ended June 30, 2016 and increased in the year-to-date period driven by higher net interest income from the benefit of higher deposit balances, partially offset by decreased fee income due to lower volumes.

Balance Sheet Management revenue declined during the three and six months ended June 30, 2016 due to higher losses related to the performance of economic hedge positions used to manage interest rate risk, partially offset by higher interest income driven by higher yielding investments, higher gains from asset sales and higher income related to bank owned life insurance.

Debit valuation adjustments resulted in lower revenue during the three and six months ended June 30, 2016 compared with the prior year periods driven by movements of both our own credit spreads and our derivative liability balances.

Loan impairment charges were higher during the three and six months ended June 30, 2016 due to higher loss estimates associated with the downgrade of a single mining customer relationship and, in the year-to-date period, other downgrades reflecting weaknesses in the financial condition of certain customer relationships, including higher loss estimates associated with mining and other industry loan exposures. The increase in the year-to-date period also reflects higher loss estimates associated with oil and gas industry loan exposures, driven primarily by the downgrade of a large customer relationship and the establishment of specific reserves related to two large loans which became impaired.

Operating expenses were lower during the three and six months ended June 30, 2016 due primarily to lower corporate function cost allocations from affiliates.

Private Banking PB serves high net worth individuals and families with complex needs domestically and abroad.

Client deposit levels increased \$904 million or 7 percent as compared with June 30, 2015. Total loans increased \$78 million or 1 percent as compared with June 30, 2015 from the mortgage portfolio. Overall period end client assets were \$1,919 million lower than June 30, 2015 as increased client deposits levels were more than offset by lower discretionary and fiduciary portfolios which were negatively impacted by client outflows.

The following table provides additional information regarding client assets during the six months ended June 30, 2016 and 2015:

Six Months Ended June 30,	2016	2015
	(in millions)	
Client assets at beginning of the period	\$ 42,716	\$ 44,102
Net new money	(836)	1,349
Value change	851	(801)
Client assets at end of period	<u>\$ 42,731</u>	<u>\$ 44,650</u>

The following table summarizes the Group Reporting Basis results for the PB segment:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest income.....	\$ 49	\$ 50	\$ (1)	(2.0)%
Other operating income	22	27	(5)	(18.5)
Total operating income.....	71	77	(6)	(7.8)
Loan impairment recoveries	—	(1)	1	100.0
Net operating income	71	78	(7)	(9.0)
Operating expenses.....	59	58	1	1.7
Profit before tax	\$ 12	\$ 20	\$ (8)	(40.0)%

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest income.....	\$ 100	\$ 99	\$ 1	1.0 %
Other operating income	45	51	(6)	(11.8)
Total operating income.....	145	150	(5)	(3.3)
Loan impairment recoveries	(1)	(1)	—	—
Net operating income	146	151	(5)	(3.3)
Operating expenses.....	117	116	1	.9
Profit before tax	\$ 29	\$ 35	\$ (6)	(17.1)%

Our PB segment profit before tax decreased during the three and six months ended June 30, 2016 primarily due to lower other operating income.

Net interest income was relatively flat during the three and six months ended June 30, 2016.

Other operating income decreased during the three and six months ended June 30, 2016 due to lower fees and commissions reflecting a decline in managed and investment product balances.

Loan impairment recoveries were relatively flat during the three and six months ended June 30, 2016.

Operating expenses were relatively flat during the three and six months ended June 30, 2016.

Other The other segment primarily includes changes in the fair value of certain debt issued for which fair value option accounting was elected and related derivatives, income and expense associated with certain affiliate transactions, certain corporate function costs including costs to achieve, adjustments to the fair value of HSBC shares held for stock plans, interest expense associated with certain tax exposures and income associated with other tax related investments.

The following table summarizes the Group Reporting Basis results for the Other segment:

Three Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest expense.....	\$ (5)	\$ (5)	\$ —	—%
Gain on own fair value option debt attributable to credit spread	(41)	48	(89)	*
Other operating income	22	27	(5)	(18.5)
Total operating income.....	(24)	70	(94)	*
Loan impairment charges	—	—	—	—
Net operating income	(24)	70	(94)	*
Operating expenses.....	63	50	13	26.0
Profit (loss) before tax.....	\$ (87)	\$ 20	\$ (107)	*

Six Months Ended June 30,	2016	2015	Increase (Decrease)	
			Amount	%
(dollars are in millions)				
Net interest expense.....	\$ (10)	\$ (11)	\$ 1	9.1%
Gain on own fair value option debt attributable to credit spread	108	118	(10)	(8.5)
Other operating income	50	39	11	28.2
Total operating income.....	148	146	2	1.4
Loan impairment charges	—	—	—	—
Net operating income	148	146	2	1.4
Operating expenses.....	89	77	12	15.6
Profit before tax.....	\$ 59	\$ 69	\$ (10)	(14.5)%

* Not meaningful.

Our Other segment reported lower profit before tax during the three and six months ended June 30, 2016 primarily due to lower operating income from changes in the fair value of our own debt and related derivatives for which fair value option accounting was elected as well as higher operating expenses driven by higher costs to achieve charges, partially offset by the non-recurrence of losses in the prior year periods associated with non-qualifying hedges.

Reconciliation of Segment Results As previously discussed, segment results are reported on a Group Reporting Basis. For segment reporting purposes, inter-segment transactions have not been eliminated, and we generally account for transactions between segments as if they were with third parties. 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 U.S. and, on a limited basis, internationally.

Allowance for Credit Losses Commercial loans are monitored on a continuous basis with a formal assessment completed, at a minimum, annually. As part of this process, a credit grade and loss given default are assigned and an allowance is established for these loans based on a probability of default estimate associated with each credit grade under the allowance for credit losses methodology. Credit Review, a function independent of the business, provides an ongoing assessment of lending activities that includes independently assessing credit grades and loss given default estimates for sampled credits across various portfolios. When it is deemed probable based upon known facts and circumstances that full interest and principal on an individual loan will not be collected in accordance with its contractual terms, the loan is considered impaired. An impairment reserve is then established based on the present value of expected future cash flows, discounted at the loan's original effective interest rate, or as a practical expedient, the loan's observable market price or the fair value of the collateral if the loan is collateral dependent. Updated appraisals for collateral dependent loans are generally obtained only when such loans are considered troubled and the frequency of such updates

are generally based on management judgment under the specific circumstances on a case-by-case basis. In addition, loss reserves on commercial loans are maintained to reflect our judgment of portfolio risk factors which may not be fully reflected in the reserve calculations.

Our probability of default estimates for commercial loans are mapped to our credit grade master scale. These probability of default estimates are validated on an annual basis using back-testing of actual default rates and benchmarking of the internal ratings with external rating agency data like Standard and Poor's ("S&P") ratings and default rates. Substantially all appraisals in connection with commercial real estate loans are ordered by the independent real estate appraisal review unit at HSBC. The appraisal must be reviewed and accepted by this unit. For loans greater than \$250,000, an appraisal is generally ordered when the loan is classified as Substandard as defined by the Office of the Comptroller of the Currency (the "OCC"). On average, it takes approximately four weeks from the time the appraisal is ordered until it is completed and the values accepted by HSBC's independent appraisal review unit. Subsequent provisions or charge-offs are completed shortly thereafter, generally within the quarter in which the appraisal is received.

In situations where an external appraisal is not used to determine the fair value of the underlying collateral of impaired loans, current information such as rent rolls and operating statements of the subject property are reviewed and presented in a standardized format. Operating results such as net operating income and cash flows before and after debt service are established and reported with relevant ratios. Third-party market data is gathered and reviewed for relevance to the subject collateral. Data is also collected from similar properties within the portfolio. Actual sales levels of properties, operating income and expense figures and rental data on a square foot basis are derived from existing loans and, when appropriate, used as comparables for the subject property. Property specific data, augmented by market data research, is used to project a stabilized year of income and expense to create a 10-year cash flow model to be discounted at appropriate rates to present value. These valuations are then used to determine if any impairment on the underlying loans exists and an appropriate allowance is recorded when warranted.

For loans identified as troubled debt restructurings ("TDR loans"), an allowance for credit losses is maintained based on the present value of expected future cash flows discounted at the loans' original effective interest rate or in the case of certain loans which are solely dependent on the collateral for repayment, the estimated fair value of the collateral less costs to sell. The circumstances in which we perform a loan modification involving a TDR Loan at a then current market interest rate for a borrower with similar credit risk would include other changes to the terms of the original loan made as part of the restructure (e.g. principal reductions, collateral changes, etc.) in order for the loan to be classified as a TDR Loan.

For pools of homogeneous consumer receivables and certain small business loans which do not qualify as TDR Loans, we estimate probable losses using a roll rate migration analysis that estimates the likelihood that a loan will progress through the various stages of delinquency, or buckets, and ultimately charge-off based upon recent historical performance experience of other loans in our portfolio. This migration analysis incorporates estimates of the period of time between a loss occurring and the confirming event of its charge-off. This analysis considers delinquency status, loss experience and severity and takes into account whether borrowers have filed for bankruptcy or have been subject to account management actions, such as the re-age or modification of accounts. We also take into consideration the loss severity expected based on the underlying collateral, if any, for the loan in the event of default based on historical and recent trends which are updated monthly based on a rolling average of several months' data using the most recently available information.

The roll rate methodology is a migration analysis based on contractual delinquency and rolling average historical loss experience which captures the increased likelihood of an account migrating to charge-off as the past due status of such account increases. The roll rate models used were developed by tracking the movement of delinquencies by age of delinquency by "bucket" over a specified time period. Each bucket represents a period of delinquency in 30-day increments. The roll from the last delinquency bucket results in charge-off. Contractual delinquency is a method for determining aging of past due accounts based on the status of payments under the loan. Average roll rates are developed to avoid temporary aberrations caused by seasonal trends in delinquency experienced by some product types. We have determined that a 12-month average roll rate balances the desire to avoid temporary aberrations, while at the same time analyzing recent historical data. The roll rate calculations are performed monthly and are done consistently from period to period. We regularly monitor our portfolio to evaluate the period of time utilized in our roll rate migration analysis and perform a formal review on an annual basis. In addition, loss reserves on consumer receivables are maintained to reflect our judgment of portfolio risk factors which may not be fully reflected in the statistical roll rate calculation.

Our allowance for credit losses methodology and our accounting policies related to the allowance for credit losses are presented in further detail under the caption "Critical Accounting Policies and Estimates" and in Note 2, "Summary of Significant Accounting Policies and New Accounting Pronouncements," in our 2015 Form 10-K. Our approach toward credit risk management is summarized under the caption "Risk Management" in our 2015 Form 10-K. There have been no significant revisions to our policies or methodologies during the first half of 2016.

The following table sets forth the allowance for credit losses for the periods indicated:

	June 30, 2016	March 31, 2016	December 31, 2015
	(dollars are in millions)		
Allowance for credit losses	\$ 1,063	\$ 1,023	\$ 912
Ratio of Allowance for credit losses to:			
Loans: ⁽¹⁾			
Commercial:			
Non-affiliates.....	1.75%	1.60%	1.35%
Affiliates.....	—	—	—
Total commercial.....	1.60	1.46	1.25
Consumer:			
Residential mortgages.....	.28	.31	.38
Home equity mortgages.....	1.26	1.62	1.50
Credit cards.....	4.94	4.70	4.58
Other consumer.....	1.90	2.53	2.21
Total consumer.....	.54	.60	.65
Total.....	1.33%	1.25%	1.10%
Net charge-offs: ⁽²⁾			
Commercial ⁽³⁾	399%	683%	1,217%
Consumer.....	262	233	205
Total.....	378%	556%	707%
Nonperforming loans: ⁽¹⁾⁽⁴⁾			
Commercial.....	102%	179%	293%
Consumer.....	21	23	15
Total.....	73%	99%	78%

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

⁽²⁾ Ratios at June 30, 2016 and March 31, 2016 reflect year-to-date net charge-offs, annualized. Ratio at December 31, 2015 reflects full year net charge-offs.

⁽³⁾ Our commercial net charge-off coverage ratio for the year-to-date periods ended June 30, 2016 and March 31, 2016 and the year ended December 31, 2015 was 48 months, 82 months and 146 months, respectively. The net charge-off coverage ratio represents the commercial allowance for credit losses at period end divided by average monthly commercial net charge-offs during the period.

⁽⁴⁾ 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.

See Note 5, "Allowance for Credit Losses," in the accompanying consolidated financial statements for a rollforward of credit losses by general loan categories for the three and six months ended June 30, 2016 and 2015.

The allowance for credit losses at June 30, 2016 increased \$40 million or 4 percent as compared with March 31, 2016 and increased \$151 million or 17 percent as compared with December 31, 2015 due to higher loss estimates in our commercial loan portfolio, partially offset by lower loss estimates in our consumer loan portfolio.

Our commercial allowance for credit losses increased \$51 million or 6 percent as compared with March 31, 2016 and increased \$174 million or 22 percent as compared with December 31, 2015 primarily due to higher loss estimates associated with the downgrade of a single mining customer relationship and, as compared with December 31, 2015, other downgrades reflecting weaknesses in the financial condition of certain customer relationships, including higher loss estimates associated with mining and other industry loan exposures. These increases in both periods were partially offset by a release of reserves associated with the sale of a large impaired oil and gas industry loan during the second quarter of 2016.

Our consumer allowance for credit losses decreased \$11 million or 9 percent as compared with March 31, 2016 and decreased \$23 million or 17 percent as compared with December 31, 2015 reflecting a release of reserves driven by improved loss estimates associated with certain home equity mortgages, continued improvements in economic and credit conditions, the continued origination of higher quality Premier mortgages which are an increasingly larger portion of the portfolio and, compared with December 31, 2015, lower loss estimates in our residential mortgage loan portfolio driven by a release of reserves related to certain

residential mortgages serviced by others as a result of updated information regarding the underlying loan characteristics being reported by the servicers.

Our residential mortgage loan allowance for credit losses in all periods reflects consideration of certain risk factors relating to trends such as recent portfolio performance as compared with average roll rates and economic uncertainty, including housing market trends as well as second lien exposure.

The allowance for credit losses as a percentage of total loans at June 30, 2016 increased as compared with both March 31, 2016 and December 31, 2015 due to an increase in the commercial loan percentage, partially offset by a decrease in the consumer loan percentage for the reasons discussed above.

The allowance for credit losses as a percentage of net charge-offs decreased as compared with both March 31, 2016 and December 31, 2015 due to higher dollars of net charge-offs in our commercial loan portfolio driven by the sale of a large impaired oil and gas industry loan during the second quarter of 2016, partially offset by lower dollars of net charge-offs in our consumer loan portfolio and an increase in our overall allowance for credit losses for the reasons discussed above.

The following table presents the allowance for credit losses by major loan categories, excluding loans held for sale:

	Amount	% of Loans to Total Loans	Amount	% of Loans to Total Loans ⁽¹⁾	Amount	% of Loans to Total Loans ⁽¹⁾
	June 30, 2016		March 31, 2016		December 31, 2015	
(dollars are in millions)						
Commercial ⁽¹⁾	\$ 953	74.6%	\$ 902	75.4%	\$ 779	75.3%
Consumer:						
Residential mortgages	50	22.2	55	21.5	68	21.5
Home equity mortgages	19	1.9	25	1.9	24	1.9
Credit cards	33	.8	31	.8	32	.8
Other consumer	8	.5	10	.4	9	.5
Total consumer	110	25.4	121	24.6	133	24.7
Total	\$ 1,063	100.0%	\$ 1,023	100.0%	\$ 912	100.0%

⁽¹⁾ See Note 5, "Allowance for Credit Losses," in the accompanying consolidated financial statements for components of the commercial allowance for credit losses.

Reserves for Off-Balance Sheet Credit Risk We also maintain a separate reserve for credit risk associated with certain commercial off-balance sheet exposures, including letters of credit, unused commitments to extend credit and financial guarantees. The following table summarizes this reserve, which is included in other liabilities on the consolidated balance sheet. The related provision is recorded as a component of other expense within operating expenses.

	June 30, 2016	March 31, 2016	December 31, 2015
(in millions)			
Off-balance sheet credit risk reserve	\$ 120	\$ 103	\$ 99

The increase in off-balance sheet reserves at June 30, 2016 as compared with both March 31, 2016 and December 31, 2015 reflects the impact of downgrades during the first half of 2016. Off-balance sheet exposures are summarized under the caption "Off-Balance Sheet Arrangements, Credit Derivatives and Other Contractual Obligations" in this MD&A.

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

	June 30, 2016	March 31, 2016	December 31, 2015
(dollars are in millions)			
Delinquent loans:			
Commercial	\$ 42	\$ 49	\$ 91
Consumer:			
Residential mortgages ⁽¹⁾⁽²⁾	801	835	858
Home equity mortgages ⁽¹⁾⁽²⁾	49	48	56
Credit cards	12	13	13
Other consumer	9	10	11
Total consumer	<u>871</u>	<u>906</u>	<u>938</u>
Total	<u>\$ 913</u>	<u>\$ 955</u>	<u>\$ 1,029</u>
Delinquency ratio:			
Commercial07%	.08%	.14%
Consumer:			
Residential mortgages ⁽¹⁾⁽²⁾	4.44	4.66	4.83
Home equity mortgages ⁽¹⁾⁽²⁾	3.24	3.11	3.50
Credit cards	1.80	1.97	1.86
Other consumer	1.81	2.11	2.26
Total consumer	<u>4.20</u>	<u>4.40</u>	<u>4.56</u>
Total	<u>1.12%</u>	<u>1.12%</u>	<u>1.21%</u>

⁽¹⁾ At June 30, 2016, March 31, 2016 and December 31, 2015, consumer mortgage loan delinquency includes \$735 million, \$765 million and \$793 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less costs to sell, including \$361 million, \$375 million and \$3 million, respectively, relating to loans held for sale.

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

	June 30, 2016	March 31, 2016	December 31, 2015
(dollars are in millions)			
Dollars of delinquent loans:			
Interest-only loans	\$ 58	\$ 68	\$ 63
ARM loans	241	252	253
Delinquency ratio:			
Interest-only loans	1.58%	1.88%	1.73%
ARM loans	1.96	2.06	2.08

Compared with March 31, 2016 and December 31, 2015, our two-months-and-over contractual delinquency ratio was flat and decreased 9 basis points, respectively, as lower dollars of delinquency in both our commercial and consumer loan portfolios were offset compared with March 31, 2016, and partially offset compared with December 31, 2015, by lower outstanding loan balances primarily in our commercial loan portfolio. Compared with March 31, 2016 and December 31, 2015, our commercial two-months-and-over contractual delinquency ratio decreased 1 basis point and 7 basis points, respectively, largely due to improved collections and, as compared with December 31, 2015, the charge-off of certain business and corporate banking loans. These decreases in both periods were partially offset by lower outstanding loan balances. Our consumer loan two-month-and-over contractual delinquency ratio decreased 20 basis points and 36 basis points from March 31, 2016 and December 31, 2015, respectively, due primarily to lower levels of residential mortgage loan delinquency driven by continued improvements in economic and credit conditions and the continued origination of higher quality Premier mortgages which are an increasingly larger portion of the portfolio and, as compared with December 31, 2015, lower levels of home equity mortgage loan delinquency due to improved collections. Residential mortgage loan delinquency levels however continue to be impacted by an elongated foreclosure process which has resulted in loans which would otherwise have been foreclosed and transferred to Real Estate Owned remaining in the loan account and, consequently, in delinquency.

Residential mortgage delinquency is higher than home equity mortgage delinquency in all periods largely due to the inventory of loans which are held at the lower of amortized cost or fair value of the collateral less cost to sell and are in the foreclosure process. Given the extended foreclosure time lines, particularly in those states where HUSI has a large footprint, the residential mortgage portfolio has a substantial inventory of loans which are greater than 180 days past due and have been written down to the fair value of the collateral less cost to sell. There is a substantially lower volume of home equity mortgage loans where we pursue foreclosure less frequently given the generally subordinate position of the lien. In addition, our legacy business, originated through broker channels and loan transfers from HSBC Finance, is of a lower credit quality and, therefore, contributes to an overall higher weighted average delinquency rate for our residential mortgages. Both of these factors are expected to continue to diminish in future periods as the foreclosure backlog resulting from extended foreclosure time lines is managed down and the portfolio mix continues to shift to higher quality loans as the legacy broker originated business and prior loan transfers run off.

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

	June 30, 2016	March 31, 2016	June 30, 2015
	(dollars are in millions)		
Net Charge-off Dollars:			
Commercial:			
Construction and other real estate.....	\$ —	\$ —	\$ (2)
Business and corporate banking.....	8	26	33
Global banking.....	78	7	—
Other commercial.....	—	—	—
Total commercial.....	<u>86</u>	<u>33</u>	<u>31</u>
Consumer:			
Residential mortgages.....	(2)	4	6
Home equity mortgages.....	—	2	2
Credit cards.....	7	6	6
Other consumer.....	3	1	4
Total consumer.....	<u>8</u>	<u>13</u>	<u>18</u>
Total.....	<u>\$ 94</u>	<u>\$ 46</u>	<u>\$ 49</u>
Net Charge-off Ratio:			
Commercial:			
Construction and other real estate.....	—%	—%	(.07)%
Business and corporate banking.....	.17	.53	.67
Global banking.....	1.12	.09	—
Other commercial.....	—	—	—
Total commercial.....	<u>.57</u>	<u>.21</u>	<u>.20</u>
Consumer:			
Residential mortgages.....	(.05)	.09	.14
Home equity mortgages.....	—	.51	.47
Credit cards.....	4.23	3.58	3.51
Other consumer.....	2.87	.99	3.78
Total consumer.....	<u>.16</u>	<u>.26</u>	<u>.36</u>
Total.....	<u>.47%</u>	<u>.22%</u>	<u>.24%</u>

Our net charge-off ratio as a percentage of average loans for the quarter ended June 30, 2016 increased 25 basis points and 23 basis points compared with the quarters ended March 31, 2016 and June 30, 2015, respectively, primarily due to higher levels of net charge-offs in our commercial loan portfolio, partially offset by lower levels of net charge-offs in our consumer loan portfolio. The increase in commercial net charge-offs reflects higher charge-offs in global banking driven by the sale of a large impaired oil and gas industry loan during the second quarter of 2016, partially offset by lower levels of net charge-offs in business and corporate banking as the prior quarter reflects charge-offs largely driven by two customer relationships and the year-ago quarter reflects charge-offs largely driven by a single customer relationship. The decrease in consumer net charge-offs was driven by lower charge-offs in residential mortgages and home equity mortgages due to continued improvement in economic and credit conditions, including the impact of lower levels of delinquency on accounts less than 180 days delinquent, as well as the continued origination of higher quality Premier mortgages which are an increasingly larger portion of the portfolio and, compared with the year-ago quarter,

continued improvements in housing market conditions. The lower charge-offs in residential mortgages also reflect the impact of the transfer of certain residential mortgage loans to held for sale during the first half of 2016.

Nonperforming Assets Nonperforming assets consisted of the following:

	June 30, 2016	March 31, 2016	December 31, 2015
	(in millions)		
Nonaccrual loans:			
Commercial:			
Construction and other real estate	\$ 47	\$ 53	\$ 53
Business and corporate banking	238	199	167
Global banking.....	643	250	44
Other commercial	1	1	1
Commercial nonaccrual loans held for sale.....	57	—	26
Total commercial.....	<u>986</u>	<u>503</u>	<u>291</u>
Consumer:			
Residential mortgages ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾	437	447	814
Home equity mortgages ⁽¹⁾⁽²⁾	73	71	71
Consumer nonaccrual loans held for sale ⁽⁴⁾	376	377	3
Total consumer.....	<u>886</u>	<u>895</u>	<u>888</u>
Total nonaccruing loans	<u>1,872</u>	<u>1,398</u>	<u>1,179</u>
Accruing loans contractually past due 90 days or more:			
Commercial:			
Business and corporate banking.....	1	1	1
Total commercial.....	<u>1</u>	<u>1</u>	<u>1</u>
Consumer:			
Credit cards	9	9	9
Other consumer	7	7	7
Total consumer.....	<u>16</u>	<u>16</u>	<u>16</u>
Total accruing loans contractually past due 90 days or more	<u>17</u>	<u>17</u>	<u>17</u>
Total nonperforming loans	<u>1,889</u>	<u>1,415</u>	<u>1,196</u>
Other real estate owned ⁽⁵⁾	31	32	29
Total nonperforming assets	<u>\$ 1,920</u>	<u>\$ 1,447</u>	<u>\$ 1,225</u>

⁽¹⁾ At June 30, 2016, March 31, 2016 and December 31, 2015, nonaccrual consumer mortgage loans held for investment include \$428 million, \$451 million and \$768 million, respectively, of loans that are carried at the lower of amortized cost or fair value of the collateral less cost to sell.

⁽²⁾ Nonaccrual consumer mortgage loans held for investment include all receivables 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 are predominantly insured by the Federal Housing Administration and as such, these loans have different risk characteristics from the rest of our customer loan portfolio.

⁽⁴⁾ The trend in nonaccrual loans reflects the impact of the transfers of certain residential mortgage loans with a carrying value of \$24 million and \$369 million to held for sale during the three and six months ended June 30, 2016, respectively.

⁽⁵⁾ Includes less than \$1 million of commercial other real estate owned at June 30, 2016, March 31, 2016 and December 31, 2015.

Nonaccrual loans at June 30, 2016 increased as compared with both March 31, 2016 and December 31, 2015 primarily due to higher levels of commercial nonaccrual loans. The increase in commercial nonaccrual loans as compared with both March 31, 2016 and December 31, 2015 was driven by the downgrade of a single mining customer relationship as well as other downgrades reflecting weaknesses in the financial condition of certain customer relationships, predominantly oil and gas, and mining industry related. Our consumer nonaccrual loans decreased modestly compared with March 31, 2016 and was relatively flat compared with December 31, 2015. The decrease from March 31, 2016 was driven by continued improvements in economic and credit conditions, which was largely offset compared with December 31, 2015 by the increase associated with the transfer of certain residential mortgage loans to held for sale which reflect associated escrow advances. Residential mortgage nonaccrual loan levels continue to be impacted by an elongated foreclosure process as previously discussed. Accruing loans past due 90 days or more remained relatively flat compared with both March 31, 2016 and December 31, 2015.

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 2015 Form 10-K.

Impaired Commercial Loans See Note 4, "Loans," in the accompanying consolidated financial statements for information regarding impaired loans, including TDR Loans, as well as certain other commercial credit quality indicators. Commercial impaired loans, including TDR Loans, increased as compared with both March 31, 2016 and December 31, 2015 largely due to higher nonaccrual loans for the reasons discussed above and, to a lesser extent, higher TDR Loans reflecting the restructuring of certain customer relationships.

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. We participate in lending activity throughout the United States and internationally. In general, we manage the varying degrees of credit risk associated with on and off-balance sheet transactions through specific credit policies. These policies and procedures 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. As with any nonconforming and non-prime loan products, we utilize high underwriting standards and price these loans in a manner that is appropriate to compensate for higher risk. We do not offer teaser rate mortgage loans.

Our 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.
- Adjustable rate mortgage ("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, including certain loans held for sale, at June 30, 2016 and December 31, 2015. Each category is not mutually exclusive and loans may appear in more than one category below.

	June 30, 2016	December 31, 2015
	(in millions)	
Interest-only residential mortgage loans	\$ 3,669	\$ 3,645
ARM loans ⁽¹⁾	12,290	12,180

⁽¹⁾ During the remainder of 2016 and during 2017, approximately \$245 million and \$878 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. Amounts in the table exclude residential mortgage loans held for sale of \$391 million and \$11 million at June 30, 2016 and December 31, 2015, respectively.

	June 30, 2016	December 31, 2015
	(in millions)	
Closed end:		
First lien.....	\$ 17,667	\$ 17,758
Second lien	79	89
Revolving ⁽¹⁾	1,432	1,511
Total.....	<u>\$ 19,178</u>	<u>\$ 19,358</u>

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

Geographic Concentrations The following table reflects regional exposure at June 30, 2016 and December 31, 2015 for our real estate secured loan portfolios:

	Commercial Construction and Other Real Estate Loans	Residential Mortgages and Home Equity Mortgages
June 30, 2016:		
New York State	28.3%	32.5%
California	21.0	37.9
North Central United States	3.0	3.9
North Eastern United States, excluding New York State.....	8.3	8.8
Southern United States	25.9	12.4
Western United States, excluding California	5.2	4.5
Mexico	8.3	—
Total.....	100.0%	100.0%
December 31, 2015:		
New York State	27.6 %	32.8 %
California	20.0	36.9
North Central United States	3.1	4.2
North Eastern United States, excluding New York State.....	8.9	8.9
Southern United States	25.8	12.8
Western United States, excluding California	5.7	4.4
Mexico	8.9	—
Total.....	100.0 %	100.0 %

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 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.

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;
- credit worthiness 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 Basel III Standardized Approach regulatory capital rules published by U.S. banking regulatory agencies 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. As a result, risk weighted amounts for regulatory capital purposes are a portion of the original gross exposures.

The total credit risk exposure presented in the table below potentially overstates actual credit exposure because it ignores collateral that may have been received from counterparties to secure exposures; and the regulatory capital rules compute exposures over the life of derivative contracts. However, 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.

	June 30, 2016	December 31, 2015
(in millions)		
Risk associated with derivative contracts:		
Total credit risk exposure ⁽¹⁾	\$ 32,273	\$ 33,890
Less: collateral held against exposure	6,727	6,564
Net credit risk exposure	<u>\$ 25,546</u>	<u>\$ 27,326</u>

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 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.

During the first half of 2016, marketplace liquidity continued to remain available for most sources of funding. The prolonged period of low interest rates continues to put pressure on spreads earned on our deposit base.

In December 2015, HSBC submitted its full resolution plan to the FRB and the FDIC as required under the Dodd-Frank Act (the Systemically Important Financial Institution Plan or "SIFI Plan") and HSBC Bank USA submitted its full resolution plan as required under the Federal Deposit Insurance Act (the Insured Depository Institution Plan or "IDI Plan"). As of the date of this report, HSBC had not received formal feedback on the 2015 plans from the agencies. In March 2015, the FRB and the FDIC announced the completion of their reviews of the second round of resolution plans submitted in 2014 by three foreign banking organizations ("FBOs"), including the HSBC resolution plan submitted in 2014 (the "2014 Plan"). Although the FRB and FDIC noted some improvements from the original plans submitted by these filers in 2013, the agencies also jointly identified specific shortcomings with the 2014 resolution plans, including the 2014 Plan, that were to be addressed with the 2015 annual submissions. In addition, the FDIC board of directors stated in a press release that the 2014 resolution plans submitted by these filers, including the 2014 Plan, are not credible and do not facilitate an orderly resolution under the U.S. Bankruptcy Code (although the FRB did not make such a determination or join in this public statement). In April 2016, the eight largest domestic banks received formal feedback from the FRB and FDIC, which included the public disclosure of deficiencies and shortcomings noted by the joint agencies on the firms' full resolution plans filed in July 2015. These firms must remedy their jointly identified deficiencies by October 1, 2016. Shortcomings must be remediated by the next full submission of the firms' resolution plans on July 1, 2017. In addition, the four largest FBOs were granted a one year extension to complete their full resolution plans by July 1, 2017. As of the date of this report, none of the FBOs required to submit plans received formal feedback on their 2015 submissions. In July 2016, the FDIC informed HSBC Bank USA that its 2016 annual submission date for the IDI Plan will be extended to December 31, 2017 and the 2016 resolution reporting requirement will be satisfied by the submission of the 2017 IDI Plan. In addition, in August 2016, the FRB and FDIC publicly announced that the 2016 annual submission date for the HSBC SIFI Plan will be extended to December 31, 2017.

As previously reported, as a result of the adoption of the final rules by the U.S. banking regulators implementing the Basel III regulatory capital and liquidity reforms from the Basel Committee on Banking Supervision ("Basel Committee"), together with the impact of similar implementation by United Kingdom banking regulators, we continue to review the composition of our capital structure. As discussed below, during the second quarter of 2016, we replaced certain preferred equity instruments that receive less favorable treatment under the rules with new Basel III compliant instruments.

Interest Bearing Deposits with Banks totaled \$13,799 million and \$7,478 million at June 30, 2016 and December 31, 2015, respectively, of which \$12,989 million and \$6,708 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 depending on market conditions and the opportunity to maximize returns.

Federal Funds Sold and Securities Purchased under Agreements to Resell totaled \$34,666 million and \$19,847 million at June 30, 2016 and December 31, 2015, respectively. 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 depending on market conditions and the opportunity to maximize returns.

Trading Assets includes securities totaling \$10,916 million and \$11,155 million at June 30, 2016 and December 31, 2015, 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 \$51,639 million and \$49,797 million at June 30, 2016 and December 31, 2015, respectively. See "Balance Sheet Review" in this MD&A for further analysis and discussion on trends.

Short-Term Borrowings totaled \$7,376 million and \$4,995 million at June 30, 2016 and December 31, 2015, respectively. See "Balance Sheet Review" in this MD&A for further analysis and discussion on short-term borrowing trends.

Deposits totaled \$132,819 million and \$118,579 million at June 30, 2016 and December 31, 2015, respectively, which included \$97,752 million and \$90,463 million, respectively, of core deposits as calculated in accordance with FFIEC guidelines. See "Balance Sheet Review" in this MD&A for further analysis and discussion on deposit trends.

Long-Term Debt increased to \$34,778 million at June 30, 2016 from \$33,509 million at December 31, 2015. The following table presents the maturities of long-term debt at June 30, 2016:

	(in millions)
2016	\$ 1,711
2017	5,701
2018	9,077
2019	4,218
2020	6,487
Thereafter.....	7,584
Total	<u>\$ 34,778</u>

The following table summarizes issuances and retirements of long-term debt during the six months ended June 30, 2016 and 2015:

Six Months Ended June 30,	2016	2015
	(in millions)	
Long-term debt issued.....	\$ 2,559	\$ 12,140
Long-term debt repaid.....	(1,464)	(8,735)
Net long-term debt issued	<u>\$ 1,095</u>	<u>\$ 3,405</u>

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, 2016.

Under our shelf registration statement on file with the SEC, we may issue certain securities including debt securities and preferred stock. The shelf has no dollar limit, but the amount of debt outstanding is limited by the authority granted by the Board of Directors. At June 30, 2016, we were authorized to issue up to \$36,000 million, of which \$14,529 million was available. HSBC Bank USA has a \$40,000 million Global Bank Note Program of which \$15,736 million was available at June 30, 2016.

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, 2016, long-term debt included \$6,700 million of borrowings from the FHLB facility. Based upon the amounts pledged as collateral under these facilities, we were allowed access to further overnight borrowings of up to \$8,923 million.

Preferred Equity During the second quarter of 2016, HSBC USA redeemed all of its remaining externally issued preferred stock, including its Floating Rate Non-Cumulative Series F Preferred Stock, Floating Rate Non-Cumulative Series G Preferred Stock and 6.50 percent Non-Cumulative Series H Preferred Stock, totaling \$1,265 million. In connection with these redemptions, HSBC USA issued \$1,265 million of 6.0 percent Non-Cumulative Series I Preferred Stock to HSBC North America. See Note 16, "Retained Earnings and Regulatory Capital Requirements," for additional details.

Common Equity During the six months ended June 30, 2016, we did not receive any cash capital contributions from HSBC North America Inc. and we did not make any capital contributions to our subsidiary, HSBC Bank USA.

Selected Capital Ratios Capital amounts and ratios are calculated in accordance with banking regulations in effect at June 30, 2016 and December 31, 2015. 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 average consolidated assets (this latter ratio, also known as 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 selected capital ratios for HSBC USA:

	June 30, 2016	December 31, 2015
Common equity Tier 1 capital to risk weighted assets	12.8%	12.0%
Tier 1 capital to risk weighted assets	13.6	12.6
Total capital to risk weighted assets.....	17.5	16.5
Tier 1 capital to average consolidated assets (Tier 1 leverage ratio).....	9.1	9.5
Total equity to total assets.....	10.0	10.9

HSBC USA manages 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, economic capital adequacy and capital adequacy under various stress scenarios. Our initial 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 or unavailable, we will rely on capital support from our parent in accordance with HSBC's capital management policy. HSBC has indicated that they are fully committed and have the capacity to provide capital as needed to run operations and maintain sufficient regulatory capital ratios.

Regulatory capital requirements are based on the amount of capital required to be held, as defined by regulations, and the amount of risk weighted assets, also calculated based on regulatory definitions. Economic Capital is a proprietary measure to estimate unexpected loss at the 99.95 percent confidence level over a 1-year time horizon. Economic Capital is compared to a calculation of available capital resources to assess capital adequacy as part of the ICAAP.

In 2013, U.S. banking regulators issued a final rule implementing the Basel III capital framework in the United States which, for banking organizations such as HSBC North America and HSBC Bank USA, became effective in 2014 with certain provisions being phased in over time through the beginning of 2019. The Basel III final rule established an integrated regulatory capital framework to improve the quality and quantity of regulatory capital. As a result, the capital ratios in the table above are reported in accordance with the Basel III transition rules within the final rule. The Basel III final rule also introduced a supplementary leverage ratio ("SLR") with full implementation and compliance required by January 1, 2018. For additional discussion of the Basel III final rule requirements, including fully phased in required minimum risk-based capital ratios and the SLR, see Part I, "Regulation and Competition - Regulatory Capital and Liquidity Requirements," in our 2015 Form 10-K.

In 2014, the FRB adopted a final rule requiring enhanced supervision of the U.S. operations of non-U.S. banks such as HSBC. The rule requires certain large non-U.S. banks with significant operations in the United States, such as HSBC, to establish a single IHC to hold all of their U.S. bank and non-bank subsidiaries. The HSBC Group currently operates in the United States through such an IHC structure (i.e., HSBC North America), and therefore, the implementation of this requirement did not have a significant impact on our U.S. operations. As previously disclosed, in accordance with the final rule HSBC North America and HSBC Bank USA received regulatory approval in 2015 to opt out of the "Advanced Approaches" (which include an advanced internal ratings based approach for credit risk and an advanced measurement approach for operational risk) and are calculating their risk-based and leverage capital requirements solely under the general risk-based capital rules of the Standardized Approach. In March 2016, HSBC Bank USA submitted a request to the OCC to renew the opt out. HSBC North America and HSBC Bank USA, however, remain subject to the other capital requirements applicable to Advanced Approaches banking organizations such as: the SLR, the countercyclical capital buffer, stress testing requirements, enhanced risk management standards, enhanced governance and stress testing requirements for liquidity management, and other applicable prudential standards. Under the final rule, most of these requirements became effective July 1, 2016.

In November 2015, the Financial Stability Board issued its final standards for TLAC requirements for G-SIBs. In October 2015, the FRB issued its proposal to impose TLAC requirements on U.S. G-SIBs and the U.S. IHCs owned by non-U.S. G-SIBs ("TLAC Proposal"). The TLAC Proposal represents an extension of the current regulatory capital framework, which is aimed at ensuring that a banking organization can absorb losses without falling into resolution. The TLAC Proposal would require the U.S. IHCs of G-SIBs ("Covered IHCs"), including HSBC North America, to maintain minimum amounts of internal TLAC, which would include minimum levels of TLAC and long-term debt satisfying certain eligibility criteria, and a related TLAC buffer commencing January 1, 2019. Additionally, the TLAC Proposal would include "clean holding company" requirements that impose stringent limitations

on the ability of Covered IHCs to incur common types of non-TLAC-related liabilities. The FRB requested comments on all aspects of the proposal by February 19, 2016. We provided a comment letter to the FRB in February and a supplementary letter in June.

Capital Planning and Stress Testing. U.S. bank holding companies with \$50 billion or more in total consolidated assets, including HSBC North America, are required to comply with the FRB's capital plan rule and Comprehensive Capital Analysis and Review ("CCAR") program, as well as the annual supervisory stress tests conducted by the FRB, and the semi-annual company-run stress tests as required under DFAST. Under the rules, the FRB evaluates bank holding companies annually on their capital adequacy, internal capital adequacy assessment process and plans for capital distributions, and will provide a non-objection in relation to capital distributions only for companies that can demonstrate sufficient capital strength after making the capital distributions. HSBC North America participates in the CCAR and DFAST programs of the FRB and submitted its latest CCAR capital plan and annual company-run DFAST results in April 2016. HSBC Bank USA is subject to the OCC's DFAST requirements, which require certain banks to conduct annual company-run stress tests, and submitted its latest annual DFAST results in April 2016. The company-run stress tests are forward looking exercises to assess the impact of hypothetical macroeconomic baseline, adverse and severely adverse scenarios provided by the FRB and the OCC for the annual exercise, and internally developed scenarios for both the annual and mid-cycle exercises, on the financial condition and capital adequacy of a bank-holding company or bank over a nine quarter planning horizon.

HSBC North America and HSBC Bank USA are required to disclose the results of their annual DFAST under the FRB and OCC's severely adverse stress scenario and HSBC North America is required to disclose the results of its mid-cycle DFAST under its internally developed severely adverse stress scenario. In July 2016, HSBC North America and HSBC Bank USA publicly disclosed their most recent DFAST results and the FRB also publicly disclosed its own DFAST and CCAR results.

In June 2016, the FRB informed HSBC North America, our indirect parent company, that it did not object to HSBC North America's capital plan or the planned capital distributions included in its 2016 CCAR submission. Stress testing results are based solely on hypothetical adverse 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.

HSBC USA and HSBC Bank USA are required to meet minimum capital requirements by our principal regulators. Risk-based capital amounts and ratios are presented in Note 16, "Retained Earnings and Regulatory Capital Requirements," in the accompanying consolidated financial statements.

2016 Funding Strategy Our current estimate for funding needs and sources for 2016 are summarized in the following table:

	Actual January 1 through June 30, 2016	Estimated July 1 through December 31, 2016	Estimated Full Year 2016
	(in billions)		
Funding needs:			
Net loan growth.....	\$ (4)	\$ 7	\$ 3
Net change in short term investments and securities	23	(12)	11
Trading and other assets.....	3	1	4
Total funding needs	<u>\$ 22</u>	<u>\$ (4)</u>	<u>\$ 18</u>
Funding sources:			
Net change in deposits	\$ 14	\$ (6)	\$ 8
Trading and other short term liabilities.....	7	(3)	4
Net change in long-term debt.....	1	5	6
Total funding sources	<u>\$ 22</u>	<u>\$ (4)</u>	<u>\$ 18</u>

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. Our prospects for growth continue to be dependent upon our ability to attract and retain deposits and, to a lesser extent, access to the global capital markets. 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 will continue to sell a portion of new mortgage loan originations to PHH Mortgage.

HSBC Finance relies on its affiliates, including HSBC USA, to satisfy its funding needs which are not met by cash generated from its loan sales and operations.

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. Covered transactions include loans and other extensions of credit, investments and asset purchases, and certain other transactions involving the transfer of value from a subsidiary bank to an affiliate or for the benefit of an affiliate. A bank's credit exposure to an affiliate as a result of a derivative, securities lending/borrowing or repurchase transaction is also subject to these restrictions. A bank's transactions with its non-bank affiliates are also required to be on arm's length terms. Certain Edge Act subsidiaries of HSBC Bank USA are limited in the amount of funds they can provide to other affiliates including their parent. Amounts above their level of invested capital have to be secured with U.S. government securities.

For further discussion relating to our sources of liquidity and contingency funding plan, see the caption "Risk Management" in this MD&A.

Off-Balance Sheet Arrangements, Credit Derivatives and Other Contractual Obligations

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 extensions of credit and, in certain cases, guarantees.

As a financial services provider, we routinely extend credit through loan commitments and lines and letters of credit and provide financial guarantees, including derivative transactions having characteristics of a guarantee. 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.

The following table provides maturity information related to our credit derivatives and off-balance sheet arrangements. Many of these commitments and guarantees expire unused or without default. As a result, we believe that the contractual amount is not representative of the actual future credit exposure or funding requirements.

	Balance at June 30, 2016				Balance at December 31, 2015
	One Year or Less	Over One through Five Years	Over Five Years	Total	
	(in millions)				
Standby letters of credit, net of participations ⁽¹⁾	\$ 5,963	\$ 2,446	\$ 28	\$ 8,437	\$ 8,850
Commercial letters of credit	336	—	—	336	413
Credit derivatives ⁽²⁾	26,408	48,421	2,312	77,141	91,435
Other commitments to extend credit:					
Commercial ⁽³⁾	19,049	57,713	4,535	81,297	85,551
Consumer	7,460	—	—	7,460	7,625
Total	\$ 59,216	\$ 108,580	\$ 6,875	\$ 174,671	\$ 193,874

⁽¹⁾ Includes \$1,142 million and \$910 million issued for the benefit of HSBC affiliates at June 30, 2016 and December 31, 2015, respectively.

⁽²⁾ Includes \$32,683 million and \$44,130 million issued for the benefit of HSBC affiliates at June 30, 2016 and December 31, 2015, respectively.

⁽³⁾ Includes \$5,171 million and \$4,999 million issued for the benefit of HSBC affiliates at June 30, 2016 and December 31, 2015, respectively.

Other Commitments to Extend Credit Other commitments to extend credit include arrangements whereby we are contractually obligated to extend credit in the form of loans, participations in loans, lease financing receivables, or similar transactions. Consumer commitments are comprised of certain 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. Commercial commitments comprise primarily those related to secured and unsecured loans and lines of credit and certain asset purchase commitments. In connection with our commercial lending activities, we provide liquidity support to Regency Assets Limited ("Regency"), a multi-seller asset-backed commercial paper ("ABCP") conduit consolidated by an HSBC affiliate. See Note 17, "Variable Interest Entities," in the accompanying consolidated financial statements for additional information regarding ABCP conduits and our variable interests in them.

We provide liquidity support to Regency in the form of lines of credit or asset purchase agreements. Under the terms of these liquidity agreements, Regency may call upon us to lend money or to purchase certain assets in the event the conduit is unable or unwilling to issue or rollover maturing commercial paper. The maximum amount that we could be required to advance is generally limited to the lesser of the amount of outstanding commercial paper related to the supported transaction and the balance of the

assets underlying that transaction adjusted by a funding formula that excludes defaulted and impaired assets. As a result, the maximum amount that we would be required to fund may be significantly less than the maximum contractual amount specified by the liquidity agreement.

The following tables present information on our liquidity facilities with Regency at June 30, 2016. The maximum exposure to loss presented in the first table represents the maximum contractual amount of loans and asset purchases we could be required to make under the liquidity agreements. This amount does not reflect the funding limits discussed above and also assumes that we suffer a total loss on all amounts advanced and all assets purchased from Regency. As such, we believe that this measure significantly overstates our expected loss exposure.

Conduit Type	Maximum Exposure to Loss	Conduit Assets ⁽¹⁾		Conduit Funding ⁽¹⁾	
		Total Assets	Weighted Average Life (Months)	Commercial Paper	Weighted Average Life (Days)
(dollars are in millions)					
HSBC affiliate sponsored (multi-seller).....	\$ 3,808	\$ 2,449	13	\$ 1,720	14

⁽¹⁾ The amounts presented represent only the specific assets and related funding supported by our liquidity facilities.

Asset Class	Average Asset Mix	Average Credit Quality ⁽¹⁾				
		AAA	AA+/AA	A	A-	BB/BB-
Multi-seller conduit						
Debt securities backed by:						
Auto loans and leases	60%	71%	18%	75%	—%	—%
Trade receivables.....	26	—	82	25	—	—
Equipment loans	14	29	—	—	—	—
	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>—%</u>	<u>—%</u>

⁽¹⁾ Credit quality is based on Standard and Poor's ratings at June 30, 2016.

We receive fees for providing these liquidity facilities. Credit risk on these obligations is managed by subjecting them to our normal underwriting and risk management processes.

The preceding tables do not include information on credit facilities that we previously provided to certain Canadian multi-seller ABCP conduits that have been subject to restructuring agreements as part of the Montreal Accord. As part of the enhanced collateral pool established for the restructuring, we provided a Margin Funding Facility to a Master Asset Vehicle which is undrawn and expires in July 2017. The undrawn facility totaled CAD \$77 million at both June 30, 2016 and December 31, 2015.

We have established and manage a number of constant net asset value ("CNAV") money market funds that invest in shorter-dated highly-rated money market securities to provide investors with a highly liquid and secure investment. These funds price the assets in their portfolio on an amortized cost basis, which enables them to create and liquidate shares at a constant price. The funds, however, are not permitted to price their portfolios at amortized cost if that amount varies by more than 50 basis points from the portfolio's market value. In that case, the fund would be required to price its portfolio at market value and consequently would no longer be able to create or liquidate shares at a constant price. We do not consolidate the CNAV 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.

Fair Value

Fair value measurement accounting principles require a reporting entity to take into consideration its own credit risk in determining the fair value of financial liabilities. The incorporation of our own credit risk accounted for an increase of \$39 million and a decrease of \$154 million in the fair value of financial liabilities during the three and six months ended June 30, 2016, compared with an increase of \$24 million and a decrease of \$75 million during the prior year periods.

Net income volatility arising from changes in either interest rate or credit components of the mark-to-market on debt designated at fair value and related derivatives affects the comparability of reported results between periods. Accordingly, the gain (loss) on

debt designated at fair value and related derivatives during the six months ended June 30, 2016 should not be considered indicative of the results for any future period.

Control Over Valuation Process and Procedures We have established a control framework which is designed to ensure that fair values are either determined or validated by a function independent of the risk-taker. See Note 19, "Fair Value Measurements," in the accompanying consolidated financial statements for further details on our valuation control framework.

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 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 or by other foreign governments, to-be-announced securities and non-callable securities issued by U.S. government sponsored entities.

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, certain derivative contracts, asset-backed securities, corporate debt, foreign government-backed debt, preferred securities, securities purchased and sold under resale and repurchase agreements, precious metals, certain commercial loans held for sale, 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 met the fair value objective. 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 structured derivative products is determined using valuation techniques based on inputs derived from observable benchmark index tranches 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. In addition, a validation process has been established, which includes participation in peer group consensus pricing surveys, to ensure that valuation inputs incorporate market participants' risk expectations and risk premium.

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, 2016 and December 31, 2015, our Level 3 instruments included the following: collateralized debt

obligations ("CDOs") for which there is a lack of pricing transparency due to market illiquidity, certain structured deposits and structured notes for which the embedded credit, foreign exchange or equity derivatives have significant unobservable inputs (e.g., volatility or default correlations), credit default swaps ("CDS") with certain monoline insurers where the deterioration in the creditworthiness of the counterparty, which is unobservable, has resulted in significant adjustments to fair value, credit derivatives executed against certain insurers where there is uncertainty in determining fair value, certain residential mortgage and subprime mortgage loans held for sale, certain corporate debt securities, impaired commercial loans, mortgage servicing rights, and derivatives referenced to illiquid assets of less desirable credit quality.

See Note 19, "Fair Value Measurements," in the accompanying consolidated financial statements for additional information on Level 3 inputs as well as a discussion of transfers between Level 1 and Level 2 measurements during the three and six months ended June 30, 2016 and 2015.

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, 2016 and December 31, 2015:

	June 30, 2016	December 31, 2015
	(dollars are in millions)	
Level 3 assets ⁽¹⁾⁽²⁾	\$ 4,489	\$ 3,696
Total assets measured at fair value ⁽³⁾	138,222	114,396
Level 3 liabilities	2,473	2,862
Total liabilities measured at fair value ⁽¹⁾	104,466	83,148
Level 3 assets as a percent of total assets measured at fair value	3.2%	3.2%
Level 3 liabilities as a percent of total liabilities measured at fair value	2.4%	3.4%

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

⁽²⁾ Includes \$3,581 million of recurring Level 3 assets and \$908 million of non-recurring Level 3 assets at June 30, 2016. Includes \$3,577 million of recurring Level 3 assets and \$119 million of non-recurring Level 3 assets at December 31, 2015.

⁽³⁾ Includes \$137,240 million of assets measured on a recurring basis and \$982 million of assets measured on a non-recurring basis at June 30, 2016. Includes \$114,065 million of assets measured on a recurring basis and \$331 million of assets measured on a non-recurring basis at December 31, 2015.

Significant Changes in Fair Value for Level 3 Assets and Liabilities We have entered into credit default swaps with monoline insurers to hedge our credit exposure in certain asset-backed securities and synthetic CDOs. We made \$14 million and \$13 million positive credit risk adjustments to the fair value of our credit default swap contracts during the three and six months ended June 30, 2016, respectively, compared with negative adjustments of \$10 million and \$5 million during the three and six months ended June 30, 2015, respectively. These adjustments to fair value are recorded in trading revenue in the consolidated statement of income (loss). We have recorded a cumulative credit adjustment reserve of \$37 million and \$50 million against our monoline exposure at June 30, 2016 and December 31, 2015, respectively. The fair value of our monoline exposure net of cumulative credit adjustment reserves equaled \$202 million and \$173 million at June 30, 2016 and December 31, 2015, respectively.

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, 2016 and 2015 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 \$54 million or a decrease of the overall fair value measurement of approximately \$66 million at June 30, 2016. The effect of changes in significant unobservable input parameters are primarily driven by the uncertainty in determining the fair value of credit derivatives executed against certain insurers as well as credit default swaps with certain monoline insurers, mortgage servicing rights and certain asset-backed securities including CDOs.

Assets Underlying Asset-backed Securities The following tables summarize the types of assets underlying our asset-backed securities as well as certain collateralized debt obligations held at June 30, 2016:

		Total
		(in millions)
Rating of securities: ⁽¹⁾	Collateral type:	
AAA.....	Commercial mortgages.....	\$ 6
	Residential mortgages - Alt A.....	53
	Residential mortgages - Subprime.....	1
	Total AAA.....	60
AA.....	Other	41
A.....	Residential mortgages - Alt A.....	5
	Residential mortgages - Subprime.....	41
	Home equity - Alt A.....	67
	Student loans	84
	Other	452
	Total A.....	649
BBB	Residential mortgages - Alt A.....	2
	Collateralized debt obligations	201
	Total BBB.....	203
CCC	Residential mortgages - Subprime.....	5
		\$ 958

⁽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. Ratings for collateralized debt obligations represent the ratings associated with the underlying collateral.

Risk Management

Overview Managing risk effectively is fundamental to the delivery of our strategic priorities. To do so, we employ a risk management framework at all levels and across all risk types. It fosters the continuous monitoring of the risk environment and an integrated evaluation of risks and their interactions. It is designed to ensure that we have a robust and consistent approach to risk management across all of our activities. While we are subject to a number of legal and regulatory actions and investigations, our risk management framework has been designed to provide robust controls and ongoing monitoring of our principal risks. We strive to continuously improve our risk management processes through ongoing employee training and development.

The principal risks associated with our operations include the following:

- *Credit risk* is the potential that a borrower or counterparty will default on a credit obligation, as well as the impact on the value of credit instruments due to changes in the probability of borrower default. Credit risk includes risk associated with cross-border exposures;
- *Liquidity risk* is the potential that an institution will be unable to meet its obligations as they become due or fund its customers because of inadequate cash flow or the inability to liquidate assets or obtain funding itself;
- *Interest rate risk* is the potential impairment of net interest income due to mismatched pricing between assets and liabilities as well as losses in value due to interest rate movements;
- *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;
- *Operational risk* is the risk of loss resulting from inadequate or failed internal processes, people, or systems, or from external events (including legal risk);
- *Compliance risk* is the risk that we fail to observe the letter and spirit of all relevant laws, codes, rules, regulations and standards of good market practice causing us to incur fines, penalties and damage to our business and reputation;
- *Fiduciary risk* is the risk of breaching fiduciary duties where we act in a fiduciary capacity as trustee, investment manager or as mandated by law or regulation;

- *Reputational risk* is the risk arising from failure to meet stakeholder expectations as a result of any event, behavior, action or inaction, either by us, our employees, the HSBC Group or those with whom it is associated, that may cause stakeholders to form a negative view of us. This might also result in financial or non-financial impacts, loss of confidence or other consequences;
- *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;
- *Security and Fraud risk* is the risk to the business from terrorism, crime, fraud, information security, incidents/disasters, cyber-attacks and groups hostile to HSBC interests;
- *Model risk* is the potential for adverse consequences from decisions based on incorrect or misused model outputs and reports. This occurs primarily for two reasons: 1) the model may produce inaccurate outputs when compared with the intended business use and design objective; and 2) the model could be used incorrectly;
- *Pension risk* is the risk that the cash flows associated with pension assets will not be enough to cover the pension benefit obligations required to be paid and includes the risk that assumptions used by our actuaries may differ from actual experience; and
- *Sustainability risk* is the risk that financial services provided to customers indirectly result in unacceptable impacts on people or on the environment.

See "Risk Management" in MD&A in our 2015 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. Our risk management process involves the use of various simulation models. We believe that the assumptions used in these models are reasonable, but actual events may unfold differently than what is assumed in the models. Consequently, model results may be considered reasonable estimates, with the understanding that actual results may differ significantly from model projections.

Credit Risk Management Credit risk is the potential that a borrower or counterparty will default on a credit obligation, as well as the impact on the value of credit instruments due to changes in the probability of borrower default. Credit risk includes risk associated with cross-border exposures. There have been no material changes to our approach towards credit risk management since December 31, 2015. See "Risk Management" in MD&A in our 2015 Form 10-K for a more complete discussion of our approach to credit risk.

Credit risk is inherent in various on- and off-balance sheet instruments and arrangements, such as:

- loan portfolios;
- investment portfolios;
- unfunded commitments such as letters of credit, lines of credit, and unutilized credit card lines that customers can draw upon; and
- derivative financial instruments, such as interest rate swaps which, if more valuable today than when originally contracted, may represent an exposure to the counterparty to the contract.

While credit risk exists widely in our operations, diversification among various commercial and consumer portfolios helps to lessen risk exposure. Day-to-day management of credit and market risk is performed by the Chief Credit Officer/Head of Wholesale Credit and Market Risk North America and the HSBC North America Chief Retail Credit Officer, who report directly to the HSBC North America Chief Risk Officer and maintain independent risk functions. The credit risk associated with commercial portfolios is managed by the Chief Credit Officer, while credit risk associated with retail consumer loan portfolios, such as credit cards, installment loans and residential mortgages, is managed by the HSBC North America Chief Retail Credit Officer. Further discussion of credit risk can be found under the "Credit Quality" caption in this MD&A.

Liquidity Risk Management Prior to 2016, we employed two key measures to define, monitor and control our liquidity and funding risk in accordance with HSBC policy. The advances to core funding ratio was used to monitor our structural long-term funding position. In addition, stressed coverage ratios, incorporating HSBC-specific stress scenarios, were used to monitor the resilience to severe liquidity stresses. Beginning in 2016, HSBC replaced these measures with the Basel Committee based Liquidity Coverage Ratio ("LCR") and Net Stable Funding Ratio ("NSFR") as discussed further below. As a result, we now employ these ratios as part of our approach to liquidity risk management. There have been no other material changes to our approach towards liquidity risk management since December 31, 2015. See "Risk Management" in MD&A in our 2015 Form 10-K for a more complete discussion of our approach to liquidity risk. Although certain measures used in our overall approach to liquidity management have changed, we continuously monitor the impact of market events on our liquidity positions and continue to adapt our liquidity framework to reflect market events and the evolving regulatory landscape and view as to best practices. Current regulatory initiatives encourage banks to retain a portfolio of extremely high quality liquid assets. As such, we are maintaining a large portfolio of high quality sovereign and sovereign guaranteed securities.

Our liquidity management approach includes increased deposits, supplemented by wholesale borrowing to fund our business growth, and using security sales or secured borrowings for liquidity stress situations in our liquidity contingency plans. As previously discussed, HSBC Finance relies on its affiliates, including HSBC USA, to satisfy its funding needs outside of cash generated from its loan sales and operations.

In addition, the Asset and Liability Management Committee monitors the overall mix of deposit and funding concentrations to avoid undue reliance on individual funding sources and large deposit relationships.

The Basel Committee 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. Under European Commission Delegated Regulation 2015/61, the Basel Committee based LCR became a minimum regulatory standard beginning in 2015. At June 30, 2016 and December 31, 2015, HSBC USA's LCR under the EU LCR rule was 120 percent and 121 percent, respectively. 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.

The European calibration of the Basel Committee 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, is still pending. Therefore, our calculation of NSFR is based on our current interpretation and understanding of the Basel Committee final NSFR rule, which may differ in future periods depending on completion of the European calibration and further implementation guidance from regulators. At June 30, 2016, HSBC USA's NSFR was 116 percent. 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.

In 2014, the FRB, the OCC and the FDIC issued final regulations to implement the LCR in the United States, applicable to certain large banking institutions, including HSBC North America and HSBC Bank USA. The LCR final rule is generally consistent with the Basel Committee guidelines, but is more stringent in several areas including the range of assets that will qualify as HQLA and the assumed rate of outflows of certain kinds of funding. Under the final rule, U.S. institutions began the LCR transition period on January 1, 2015 and are required to maintain a minimum LCR of 100 percent by January 1, 2017, two years ahead of the Basel Committee's timeframe for compliance by January 1, 2019. As a result, HSBC North America and HSBC Bank USA, are required to maintain an LCR of 80 percent, starting on January 1, 2015 increasing annually by 10 percent increments and reaching 100 percent on January 1, 2017. The current requirement to report LCR to U.S. regulators on a monthly basis moved to a daily requirement beginning July 1, 2016. At June 30, 2016 and December 31, 2015, HSBC Bank USA's LCR under the U.S. LCR final rule was 113 percent and 114 percent, respectively. The LCR final rule does not address the NSFR requirement, which is currently in an international observation period. Based on the results of the observation period, the Basel Committee and U.S. banking regulators may make further changes to the NSFR. In April 2016, U.S. regulators issued for public comment a proposal to implement the NSFR in the United States, applicable to certain large banking organizations, including HSBC North America and HSBC Bank USA. The NSFR proposal is generally consistent with the Basel Committee guidelines, but similar to the U.S. LCR final rule, is more stringent in several areas including the required stable funding factors applied to certain assets such as mortgage-backed securities. Under the proposal, U.S. institutions would be required to comply with the NSFR rule by January 1, 2018, consistent with the scheduled global implementation of the Basel Committee based NSFR.

Enhanced prudential standard rules issued pursuant to Section 165 of the Dodd-Frank Act complement the LCR, capital planning, resolution planning, and stress testing requirements for U.S. bank holding companies and foreign banking organizations with total global consolidated assets of \$50 billion or more ("Covered Companies"). The rules require Covered Companies, such as HSBC North America, to comply with various liquidity risk management standards and to maintain a liquidity buffer of unencumbered highly liquid assets based on the results of internal liquidity stress testing. Covered companies are also required to meet heightened liquidity requirements, which include qualitative liquidity standards, cash flow projections, internal liquidity stress tests, and liquidity buffer requirements. HSBC North America has implemented the standard and it does not have a significant impact to our business model. Beginning July 1, 2016, HSBC North America is treated as an IHC owned by a foreign banking organization. This transition did not have a significant impact on our U.S. operations or change our liquidity management policies.

HSBC North America and HSBC Bank USA have adjusted their liquidity profiles to support compliance with these rules. HSBC North America and HSBC Bank USA may need to make further changes to their liquidity profiles to support compliance with any future final rules.

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, 2016:

	Moody's	S&P	Fitch
HSBC USA:			
Short-term borrowings.....	P-1	A-1	F1+
Long-term/senior debt	A2	A	AA-
HSBC Bank USA:			
Short-term borrowings.....	P-1	A-1+	F1+
Long-term/senior debt	Aa3⁽¹⁾	AA-	AA-

⁽¹⁾ Moody's long-term deposit rating for HSBC Bank USA was Aa2 at June 30, 2016.

Rating agencies continue to evaluate economic and geopolitical trends, regulatory developments, future profitability, risk management practices and litigation matters, all of which could lead to adverse ratings actions. In March 2016, Moody's changed the rating outlook for HSBC USA and HSBC Bank USA to negative from stable following a similar change in outlook to negative from stable for HSBC. The outlook change for HSBC signifies Moody's concerns about a weakening in its intrinsic financial strength due to deteriorating operating conditions in Hong Kong, one of the HSBC's key markets. In spite of their concerns, Moody's stated that HSBC's willingness to provide support to its U.S. subsidiaries remains very high. While the outlook changed, Moody's affirmed its long- and short-term supported debt and deposit ratings for HSBC USA and HSBC Bank USA. 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, 2016, there were no pending actions in terms of changes to ratings on the debt of HSBC USA or HSBC Bank USA from any of the rating agencies.

In July 2016, S&P took various rating agency actions on U.K. banks, including HSBC, to reflect rising economic risks for the U.K. domestic banking industry, including potential pressures arising from the U.K. vote to leave the EU. As a result, S&P changed the rating outlook for HSBC USA and HSBC Bank USA to negative from stable. While the outlook changed, S&P affirmed its long- and short-term counterparty credit ratings for HSBC USA and HSBC Bank USA.

Interest Rate Risk Management Various techniques are utilized to quantify and monitor risks associated with the repricing characteristics of our assets, liabilities and derivative contracts. Our approach to managing interest rate risk is summarized in MD&A in our 2015 Form 10-K under the caption "Risk Management". There have been no material changes to our approach towards interest rate risk management since December 31, 2015.

Present value of a basis point ("PVBP") is the change in value of the balance sheet for a one basis point upward movement in all interest rates. The following table reflects the PVBP position at June 30, 2016 and December 31, 2015:

	June 30, 2016	December 31, 2015
	(in millions)	
Institutional PVBP movement limit.....	\$ 8.0	\$ 8.0
PVBP position at period end.....	2.9	1.8

Net interest income simulation modeling techniques are utilized 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 as much as 200 basis points, as well as scenarios in which rates rise by as much as 200 basis point or fall by as much as 100 basis points over a twelve month period. The following table reflects the impact on projected net interest income of the scenarios utilized by these modeling techniques:

	June 30, 2016		December 31, 2015	
	Amount	%	Amount	%
(dollars are in millions)				
Estimated increase (decrease) in projected net interest income (reflects projected rate movements on July 1, 2016 and January 1, 2016, respectively):				
Resulting from a gradual 100 basis point increase in the yield curve.....	\$ 238	9%	\$ 179	7%
Resulting from a gradual 100 basis point decrease in the yield curve.....	(284)	(11)	(180)	(7)
Resulting from a gradual 200 basis point increase in the yield curve.....	411	16	349	13
Other significant scenarios monitored (reflects projected rate movements on July 1, 2016 and January 1, 2016, respectively):				
Resulting from an immediate 50 basis point decrease in the yield curve.....	(269)	(10)	(187)	(7)
Resulting from an immediate 100 basis point increase in the yield curve.....	371	14	274	10
Resulting from an immediate 100 basis point decrease in the yield curve.....	(393)	(15)	(346)	(13)
Resulting from an immediate 200 basis point increase in the yield curve.....	622	24	525	19

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.

Capital Risk/Sensitivity of Other Comprehensive Income (Loss) Large movements of interest rates could directly affect some reported capital balances and ratios. The mark-to-market valuation of available-for-sale securities is recorded on a tax effected basis to accumulated other comprehensive income (loss). This valuation mark is included in two important accounting based capital ratios: common equity Tier 1 capital to risk weighted assets and total shareholders' equity to total assets. Under the final rule adopting the Basel III regulatory capital reforms, the valuation mark is being phased into common equity Tier 1 capital over five years beginning in 2014. At June 30, 2016, we had an available-for-sale securities portfolio of approximately \$38,424 million with a positive mark-to-market adjustment of \$570 million. An increase of 25 basis points in interest rates of all maturities would lower the mark-to-market by approximately \$321 million to a net gain of \$249 million with the following results on our capital ratios:

	June 30, 2016		December 31, 2015	
	Actual	Proforma ⁽¹⁾	Actual	Proforma ⁽¹⁾
Common equity Tier 1 capital to risk weighted assets.....	12.8%	12.8%	12.0%	11.9%
Total shareholders' equity to total assets.....	10.0	9.9	10.9	10.8

⁽¹⁾ Proforma percentages reflect a 25 basis point increase in interest rates.

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

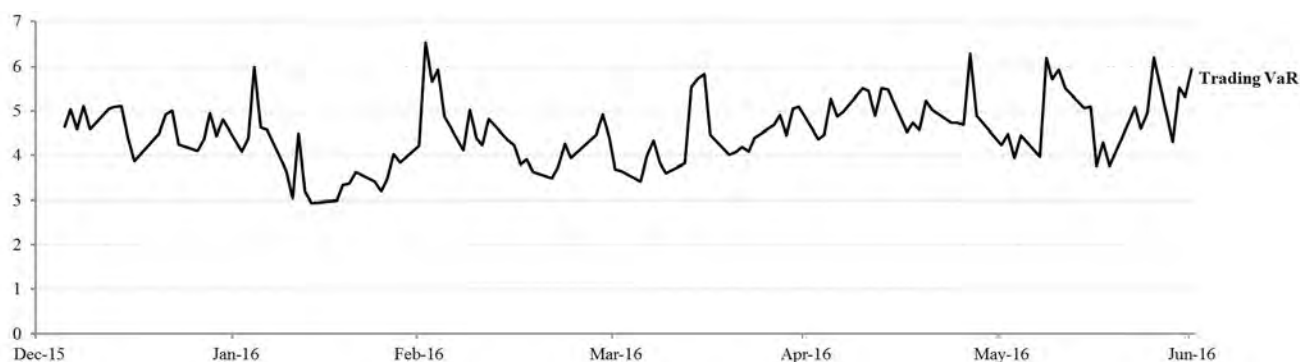
- *Trading portfolios* comprise positions arising from market-making and warehousing of customer-derived positions.
- *Non-trading portfolios* comprise positions that primarily arise from the interest rate management of our retail and commercial banking assets and liabilities and financial investments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

There have been no material changes to our approach towards market risk management since December 31, 2015. See "Risk Management" in MD&A in our 2015 Form 10-K for a more complete discussion of our approach to market risk.

Value at Risk ("VaR") VaR is a technique that estimates the 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. VaR is calculated for all trading positions and non-trading positions which are equally sensitive to market moves regardless of how we capitalize those exposures. VaR is calculated at a 99 percent confidence level for a one-day holding period.

Trading Portfolios Trading VaR generates from the Global Markets unit of the GB&M business segment. Portfolios are mainly comprised of foreign exchange products, interest rate swaps, credit derivatives, precious metals (i.e. gold, silver, platinum) in both North America and emerging markets.

Daily VaR (trading portfolios), 99 percent 1 day (in millions):



The following table summarizes our trading VaR for the six months ended June 30, 2016:

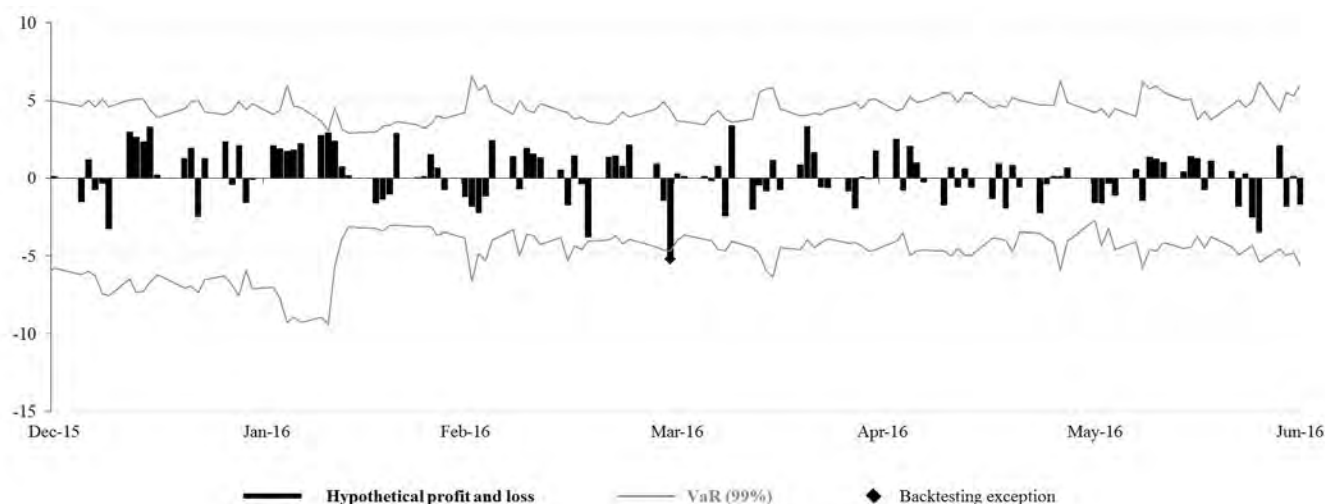
	Foreign exchange and commodity	Interest rate	Credit Spread	Portfolio diversification ⁽¹⁾	Total ⁽²⁾
(in millions)					
At June 30, 2016	\$ 2	\$ 6	\$ 2	\$ (4)	\$ 6
Six Months Ended June 30, 2016					
Average	1	4	2	(2)	5
Maximum	3	10	11		7
Minimum	1	2	1		3
At December 31, 2015	\$ 1	\$ 3	\$ 1	\$ —	\$ 5

⁽¹⁾ 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.

⁽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.

Backtesting In the six months ended June 30, 2016, we experienced one backtesting exception. The profit exception occurred in March due to a gain from independent price verification on Venezuela single-name CDS positions. Independent price verification is not captured in the single day VaR model.

We daily 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 on average to see two to three profits, and two to three losses, in excess of VaR at the 99 percent confident level over a one-year period. The actual number of profits or losses in excess of VaR over this period can therefore be used to gauge how well the models are performing. To ensure a conservative approach to calculating our risk exposures, it is important to note that profits in excess of VaR are only considered when backtesting the accuracy of models and are not used to calculate the VaR numbers used for risk management or capital purposes.

Backtesting of trading VaR against our hypothetical profit and loss (in millions):

Non-trading Portfolios Non-trading VaR predominantly relates to Balance Sheet Management ("BSM") 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 are mainly comprised of U.S. Treasuries and U.S. agency mortgage backed securities. Our non-trading VaR exposure is driven by interest rates, mortgage spreads, and asset swap spreads.

The following table summarizes our non-trading VaR for the six months ended June 30, 2016:

	Interest rate	Credit Spread	Portfolio diversification ⁽¹⁾	Total ⁽¹⁾
	(in millions)			
At June 30, 2016	\$ 60	\$ 23	\$ (2)	\$ 81
Six Months Ended June 30, 2016				
Average	58	26	(8)	77
Maximum	66	29		88
Minimum	35	22		46
At December 31, 2015	\$ 35	\$ 26	\$ (16)	\$ 47

⁽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 transferred priced into BSM which has the mandate to centrally manage and hedge it. For a broader discussion on how interest rate risk is managed, please refer to the "Risk Management - Interest Rate Risk Management" in MD&A in our 2015 Form 10-K.

Trading Portfolio MSRs Trading occurs in mortgage banking operations as a result of an economic hedging program intended to offset changes in the value of mortgage servicing rights. Economic hedging may include, for example, forward contracts to sell residential mortgages and derivative instruments used to protect the value of MSRs.

MSRs are assets that represent the present value of net servicing income (servicing fees, ancillary income, escrow and deposit float, net of servicing costs). MSRs are separately recognized upon the sale of the underlying loans or at the time that servicing rights are purchased. MSRs are subject to interest rate risk, in that their value will decline as a result of actual and expected acceleration of prepayment of the underlying loans in a falling interest rate environment.

Interest rate risk is mitigated through an active hedging program that uses trading securities and derivative instruments to offset changes in value of MSRs. Since the hedging program involves trading activity, risk is quantified and managed using a number of risk assessment techniques.

The following table reflects the modeling techniques, primarily rate shock analyses, used to monitor certain interest rate scenarios for their impact on the economic value of net hedged MSR:

	June 30, 2016	December 31, 2015
	(in millions)	
Projected change in net market value of hedged MSR portfolio (reflects projected rate movements on July 1, 2016 and January 1, 2016, respectively):		
Value of hedged MSR portfolio.....	\$ 104	\$ 140
Change resulting from an immediate 50 basis point decrease in the yield curve:		
Change limit (no worse than).....	(10)	(10)
Calculated change in net market value	—	(2)
Change resulting from an immediate 50 basis point increase in the yield curve:		
Change limit (no worse than).....	(4)	(4)
Calculated change in net market value	2	(1)
Change resulting from an immediate 100 basis point increase in the yield curve:		
Change limit (no worse than).....	(6)	(6)
Calculated change in net market value	5	(1)

The economic value of the net hedged MSR portfolio is monitored on a daily basis for interest rate sensitivity. If the economic value declines by more than established limits for one day or one month, various levels of management review, intervention and/or corrective actions are required.

The following table summarizes the frequency distribution of the weekly economic value of the MSR asset during the six months ended June 30, 2016. This includes the change in the market value of the MSR asset net of changes in the market value of the underlying hedging positions used to hedge the asset. The changes in economic value are adjusted for changes in MSR valuation assumptions that were made during the course of the year.

Ranges of mortgage economic value from market risk-related activities	Below \$(2)	\$(2) to \$0	\$0 to \$2	\$2 to \$4	Over \$4
	(dollars are in millions)				
Number of trading weeks market risk-related revenue was within the stated range.....	—	9	17	—	—

Operational Risk Management There have been no material changes to our approach toward operational risk since December 31, 2015.

Compliance Risk Management There have been no material changes to our approach toward compliance risk since December 31, 2015.

Fiduciary Risk Management There have been no material changes to our approach toward fiduciary risk since December 31, 2015.

Reputational Risk Management There have been no material changes to our approach toward reputational risk since December 31, 2015.

Strategic Risk Management There have been no material changes to our approach toward strategic risk since December 31, 2015.

Security and Fraud Risk Management There have been no material changes to our approach toward security and fraud risk since December 31, 2015.

Model Risk Management There have been no material changes to our approach to model risk since December 31, 2015.

Pension Risk Management There have been no material changes to our approach toward pension risk since December 31, 2015.

Sustainability Risk Management There have been no material changes to our approach toward sustainability risk since December 31, 2015.

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 shareholders' equity together with their respective interest amounts and rates earned or paid, presented on a taxable equivalent basis, which resulted in increases to interest income on securities of less than a million and \$1 million during the three and six months ended June 30, 2016, respectively, and increases to interest income on securities of \$2 million and \$6 million during the three and six months ended June 30, 2015, respectively. 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, 2016 included fees of \$15 million and \$33 million, respectively, compared with fees of \$18 million and \$33 million during the three and six months ended June 30, 2015, respectively.

Three Months Ended June 30,	2016			2015		
	Average Balance	Interest	Rate	Average Balance	Interest	Rate
	(dollars are in millions)					
Assets						
Interest bearing deposits with banks	\$ 37,873	\$ 47	.50%	\$ 35,270	\$ 23	.26%
Federal funds sold and securities purchased under resale agreements.....	11,073	57	2.07	3,179	3	.42
Trading securities	10,808	60	2.23	12,433	91	2.92
Securities	52,856	243	1.85	48,702	225	1.85
Loans:						
Commercial	63,259	387	2.46	62,763	334	2.13
Consumer:						
Residential mortgages	18,019	148	3.30	17,171	142	3.32
Home equity mortgages.....	1,532	13	3.41	1,705	14	3.27
Credit cards.....	662	17	10.33	684	18	10.60
Other consumer	496	7	5.68	512	7	5.70
Total consumer	20,709	185	3.59	20,072	181	3.63
Total loans	83,968	572	2.74	82,835	515	2.49
Other	2,311	1	.17	2,685	14	2.16
Total interest earning assets.....	\$ 198,889	\$ 980	1.98%	\$ 185,104	\$ 871	1.89%
Allowance for credit losses	(1,007)			(689)		
Cash and due from banks	978			876		
Other assets.....	12,250			15,453		
Total assets	\$ 211,110			\$ 200,744		
Liabilities and Shareholders' Equity						
Domestic deposits:						
Savings deposits	\$ 50,760	\$ 31	.25%	\$ 44,507	\$ 20	.19%
Time deposits.....	27,166	68	1.01	26,855	28	.43
Other interest bearing deposits	5,441	2	.15	4,579	3	.25
Foreign deposits:						
Foreign banks deposits	8,708	11	.51	6,695	1	.03
Other interest bearing deposits	5,873	5	.34	4,959	2	.13
Total interest bearing deposits.....	97,948	117	.48	87,595	54	.25
Short-term borrowings	14,313	21	.59	16,941	11	.25
Long-term debt	34,580	203	2.36	30,121	173	2.30
Total interest bearing deposits and debt.....	146,841	341	.93	134,657	238	.71
Tax liabilities and other.....	740	1	.54	705	5	1.92
Total interest bearing liabilities.....	\$ 147,581	\$ 342	.93%	\$ 135,362	\$ 243	.72%
Net interest income/Interest rate spread		\$ 638	1.05%		\$ 628	1.17%
Noninterest bearing deposits	31,649			31,915		
Other liabilities	10,591			12,426		
Total shareholders' equity.....	21,289			21,041		
Total liabilities and shareholders' equity.....	\$ 211,110			\$ 200,744		
Net interest margin on average earning assets			1.29%			1.36%
Net interest income to average total assets.....			1.21%			1.26%

Six Months Ended June 30,	2016			2015		
	Average Balance	Interest	Rate	Average Balance	Interest	Rate
	(dollars are in millions)					
Assets						
Interest bearing deposits with banks	\$ 33,167	\$ 82	.50%	\$ 33,005	\$ 42	.26%
Federal funds sold and securities purchased under resale agreements.....	10,493	86	1.65	2,530	6	.48
Trading securities	11,331	145	2.57	13,432	186	2.79
Securities	52,155	488	1.88	48,102	429	1.80
Loans:						
Commercial	63,958	765	2.41	61,554	654	2.14
Consumer:						
Residential mortgages	17,934	299	3.35	17,036	283	3.35
Home equity mortgages.....	1,553	27	3.50	1,725	28	3.32
Credit cards.....	667	36	10.85	687	37	10.79
Other consumer	490	14	5.75	519	14	5.64
Total consumer	20,644	376	3.66	19,967	362	3.66
Total loans	84,602	1,141	2.71	81,521	1,016	2.51
Other	2,459	19	1.55	2,981	29	1.92
Total interest earning assets.....	\$ 194,207	\$ 1,961	2.03%	\$ 181,571	\$ 1,708	1.90%
Allowance for credit losses	(970)			(690)		
Cash and due from banks	998			875		
Other assets.....	12,025			16,089		
Total assets	\$ 206,260			\$ 197,845		
Liabilities and Shareholders' Equity						
Domestic deposits:						
Savings deposits	\$ 50,443	\$ 61	.24%	\$ 43,782	\$ 35	.16%
Time deposits.....	26,623	129	.97	26,940	57	.43
Other interest bearing deposits	4,720	4	.17	4,501	4	.17
Foreign deposits:						
Foreign banks deposits	8,884	20	.45	6,812	1	.03
Other interest bearing deposits	4,567	8	.35	4,232	3	.13
Total interest bearing deposits.....	95,237	222	.47	86,267	100	.23
Short-term borrowings	12,894	39	.61	16,951	22	.25
Long-term debt	33,963	400	2.37	30,378	340	2.26
Total interest bearing deposits and debt.....	142,094	661	.94	133,596	462	.69
Tax liabilities and other	799	7	1.76	762	8	1.81
Total interest bearing liabilities	\$ 142,893	\$ 668	.94%	\$ 134,358	\$ 470	.70%
Net interest income/Interest rate spread		\$ 1,293	1.09%		\$ 1,238	1.20%
Noninterest bearing deposits	31,585			31,104		
Other liabilities	10,762			13,216		
Total shareholders' equity.....	21,020			19,167		
Total liabilities and shareholders' equity.....	\$ 206,260			\$ 197,845		
Net interest margin on average earning assets			1.33%			1.38%
Net interest income to average total assets.....			1.26%			1.26%

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 "Interest Rate Risk Management" and "Market Risk Management".

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures We maintain a system of internal and 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 and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report. Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer 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, 2016 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 1A. Risk Factors

The following discussion supplements the discussion of risk factors affecting us as set forth in Part I, Item 1A: Risk Factors, on pages 18 - 35 of our 2015 Annual Report on Form 10-K. The discussion of risk factors, as so supplemented, provides a description of some of the important risk factors that could affect our actual results and could cause our results to vary materially from those expressed in public statements or documents. However, other factors besides those included in the discussion of risk factors, as so supplemented, or discussed elsewhere in other of our reports filed with or furnished to the SEC could affect our business or results. The readers should not consider any description of such factors to be a complete set of all potential risks that we may face.

Failure to implement our obligations under the deferred prosecution agreements and related and other agreements and consent orders could have a material adverse effect on our business, prospects, financial condition and results and operations. An independent compliance monitor (the "Monitor") was appointed in 2013 under the 2012 agreements entered into with the Department of Justice (the "DOJ") and the U.K. Financial Conduct Authority to produce annual assessments of the effectiveness of our Anti-money Laundering ("AML") and sanctions compliance program. Additionally, the Monitor is serving as HSBC's independent consultant under the consent order of the FRB. HSBC Bank USA is also subject to an agreement entered into with the OCC in December 2012, the Gramm-Leach-Bliley Act Agreement and other consent orders.

In January 2016, the Monitor delivered his second annual follow-up review report based on various thematic and country reviews conducted by the Monitor over the course of 2015. In his report, the Monitor concluded that, in 2015, HSBC made progress in developing an effective and sustainable financial crimes compliance program. However, he expressed significant concerns about the pace of that progress, instances of potential financial crime and systems and controls deficiencies, and whether HSBC Group is on track to meet its goal to the Monitor's satisfaction within the five-year period of the United States Deferred Prosecution Agreement (the "U.S. DPA"). In addition, pending further review and discussion with HSBC Group, the Monitor did not certify as to HSBC Group's implementation of the compliance program or, pending further review and discussion with HSBC, HSBC's

implementation of and adherence to the remedial measures specified in the U.S. DPA. Through his country-level reviews, the Monitor identified potential anti-money laundering and sanctions issues that the DOJ and HSBC are reviewing further.

The design and execution of AML and sanctions remediation plans is complex and requires major investments in people, systems and other infrastructure. This complexity creates significant execution risk, which could affect our ability to effectively identify and manage financial crime risk and remedy AML and sanctions compliance deficiencies in a timely manner. This could, in turn, impact our ability to satisfy the Monitor or comply with the terms of the U.S. DPA and related agreements and consent orders, and may require us to take additional remedial measures in the future.

HSBC Bank USA, as the primary dollar clearer for all U.S. dollar transactions for HSBC globally, manages significant AML, financial crime, regulatory and reputation risk in the global correspondent banking area because of the breadth and scale of that area, especially as it relates to transactions involving affiliates and global correspondent banks in high risk AML jurisdictions. A significant AML violation in this area or the utilization of the global affiliate and correspondent banking network by terrorists or other perpetrators of financial crimes could have materially adverse consequences under the U.S. DPA or our other consent agreements. Breach of the U.S. DPA at any time during its term may allow the DOJ to prosecute HSBC or HSBC Bank USA in relation to the matters which are the subject of the U.S. DPA.

Under the terms of the U.S. DPA, upon notice and opportunity to be heard, the DOJ has sole discretion to determine whether HSBC or HSBC Bank USA has breached the U.S. DPA, including if we have committed any crime under U.S. federal law subsequent to the signing of the U.S. DPA. As discussed in Note 20, "Litigation and Regulatory Matters," to this Form 10-Q, we are the subject of other ongoing investigations and reviews by the DOJ. Potential consequences of breaching the U.S. DPA could include the imposition of additional terms and conditions on HSBC or HSBC Bank USA, an extension of the U.S. DPA, including its monitorship, or the criminal prosecution of HSBC and HSBC Bank USA, which could, in turn, entail further financial penalties and collateral consequences.

We are not currently in full compliance with the AML/Bank Secrecy Act ("BSA") consent order entered into by HSBC Bank USA with the OCC in 2010 (the "AML/BSA Consent"), which required improvements to establish an effective compliance risk management program across our U.S. businesses, including risk management related to BSA and AML compliance. Failure to comply with the AML/BSA Consent could result in additional restrictions on HSBC Bank USA that could be material to our business, prospects, financial condition and results of operations and could result in future enforcement actions, including the assessment of additional civil money penalties.

Breach of the U.S. DPA or related or other agreements and consent orders could have a material adverse effect on our business, prospects, financial condition and results of operations, including potential restrictions on our ability to operate in the United States or to perform dollar-clearing functions through HSBC Bank USA, loss of business, revocation of licenses, withdrawal of funding and harm to our reputation. In addition, these settlements with regulators do not preclude further private litigation relating to, among other things, HSBC's compliance with applicable AML, BSA and sanctions laws or law enforcement actions for BSA, AML, sanctions or other matters not covered by the various agreements, which, if determined adversely, may result in judgments, settlements or other results that could materially adversely affect our business, financial condition or results of operations, or cause serious reputational harm. Even if we are not determined to have breached these agreements, but the agreements are amended or their terms extended, our business, reputation and brand could suffer materially.

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, HSBC USA Inc. did not engage in any 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. sanction programs described under "Frozen Accounts and Transactions" below. The following activities conducted by our affiliates are disclosed in response to Section 13(r):

Loans in repayment Between 2001 and 2005, the Project and Export Finance division of the HSBC Group arranged or participated in a portfolio of loans to Iranian energy companies and banks. All of these loans were guaranteed by European and Asian export credit agencies and have varied maturity dates with final maturity in 2018. For those loans that remain outstanding, the HSBC Group continues to seek repayment in accordance with its obligations to the supporting export credit agencies. Details of these loans follow.

At June 30, 2016, the HSBC Group had 7 loans outstanding to an Iranian petrochemical company. These loans are supported by the official export credit agencies of the following countries: the United Kingdom, Germany, South Korea, and Japan. The HSBC Group continues to seek repayments from the Iranian company under the outstanding loans in accordance with their original maturity profiles.

Two loans to the same company which were supported by the French and German Export Credit Agencies matured during the second quarter of 2016 following receipt of the final repayments. Bank Melli acted as a sub-participant in one of these facilities.

Estimated gross revenue to the HSBC Group generated by the loans in repayment for the second quarter of 2016, which includes interest and fees, was approximately \$92,000, and net estimated profit was approximately \$86,000. While the HSBC Group intends to continue to seek repayment under the existing loans, all of which were entered into before the petrochemical sector of Iran became a target of U.S. sanctions, it does not currently intend to extend any new loans.

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 in support of guarantees issued by 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.

The HSBC Group has worked with relevant regulatory authorities to ensure compliance in accordance with applicable law.

There was no measurable gross revenue in the second quarter of 2016 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. None were canceled in the second quarter of 2016 and approximately 20 remain outstanding.

Other relationships with Iranian banks Activity related to U.S.-sanctioned Iranian banks not covered elsewhere in this disclosure includes the following:

- The HSBC Group maintains several frozen accounts in the United Kingdom for an Iranian-owned, U.K.-regulated financial institution. Transactions relating to these accounts have been carried out under U.K. government license (or, particularly following Implementation Day under the Joint Comprehensive Plan of Action relating to the Iranian nuclear program, are generally permissible under applicable law). Estimated gross revenue in the second quarter of 2016 for these transactions, which includes fees and/or commissions, was approximately \$53,400.
- The HSBC Group acts as the trustee and administrator for a pension scheme involving four employees of a U.S.-sanctioned Iranian bank in Hong Kong, two of whom joined the scheme during the second quarter of 2016. 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 Hong Kong laws and regulations. Estimated gross revenue, which includes fees and/or commissions, generated by this pension scheme in the second quarter of 2016 was approximately \$1,180. Three checks amounting to HKD 5,469 were issued to the Iranian bank employer during the second quarter of 2016, as a result of the employer's overpayment of contributions.

For the Iranian bank related-activity discussed in this section, 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 currently intends to continue to wind down this activity, 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 frozen personal accounts for an individual customer who was sanctioned under U.S. Executive Order 13224 during the second quarter of 2016. The accounts were frozen during the second quarter of 2016.

For activity related to U. S. Executive Order 13224, there was no measurable gross revenue or net profit generated to the HSBC Group in the second quarter of 2016.

Frozen accounts and transactions The HSBC Group and HSBC Bank USA (a subsidiary of HUSI) maintain several accounts that are frozen under relevant sanctions programs and on which no activity, except as licensed or otherwise authorized, took place during the second quarter of 2016. In the second quarter of 2016, the HSBC Group and HSBC Bank USA also froze payments where required under relevant sanctions programs. There was no measurable gross revenue or net profit to the HSBC Group and HSBC Bank USA in the second quarter of 2016 relating to these frozen accounts.

Item 6. Exhibits

- 3(i) 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, Exhibits 3.2 and 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 April 28, 2016 (incorporated by reference to Exhibit 3.2 to HSBC USA Inc.'s Current Report on Form 8-K filed May 2, 2016).
- 12 Computation of Ratio of Earnings to Fixed Charges and Earnings to Combined Fixed Charges and Preferred Stock Dividends.
- 31 Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 32 Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- 101.INS XBRL Instance Document⁽¹⁾
- 101.SCH XBRL Taxonomy Extension Schema Document⁽¹⁾
- 101.CAL XBRL Taxonomy Extension Calculation Linkbase Document⁽¹⁾
- 101.DEF XBRL Taxonomy Extension Definition Linkbase Document⁽¹⁾
- 101.LAB XBRL Taxonomy Extension Label Linkbase Document⁽¹⁾
- 101.PRE XBRL Taxonomy Extension Presentation Linkbase Document⁽¹⁾

⁽¹⁾ 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, 2016, formatted in eXtensible Business Reporting Language ("XBRL") interactive data files: (i) the Consolidated Statement of Income (Loss) for the three and six months ended June 30, 2016 and 2015, (ii) the Consolidated Statement of Comprehensive Income (Loss) for the three and six months ended June 30, 2016 and 2015, (iii) the Consolidated Balance Sheet at June 30, 2016 and December 31, 2015, (iv) the Consolidated Statement of Changes in Shareholders' Equity for the six months ended June 30, 2016 and 2015, (v) the Consolidated Statement of Cash Flows for the six months ended June 30, 2016 and 2015, and (vi) the Notes to Consolidated Financial Statements.

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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 3, 2016

HSBC USA INC.

By: /s/ MARK A. ZAESKE

Mark A. Zaeske

Senior Executive Vice President and
Chief Financial Officer

Exhibit Index

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HSBC USA INC.
COMPUTATION OF RATIO OF EARNINGS TO FIXED CHARGES AND
EARNINGS TO COMBINED FIXED CHARGES AND PREFERRED STOCK DIVIDENDS

	Six Months Ended June 30,	
	2016	2015
	(dollars are in millions)	
Ratios excluding interest on deposits:		
Income from continuing operations.....	\$ 133	\$ 251
Income tax expense.....	74	174
Fixed charges:		
Interest on:		
Short-term borrowings	39	22
Long-term debt.....	400	340
Others	7	8
One third of rents, net of income from subleases	13	14
Total fixed charges, excluding interest on deposits.....	<u>459</u>	<u>384</u>
Earnings from continuing operations before taxes and fixed charges.....	\$ 666	\$ 809
Ratio of earnings to fixed charges	<u>1.45</u>	<u>2.11</u>
Preferred stock dividends ⁽¹⁾	\$ 45	\$ 57
Fixed charges, including preferred stock dividends	<u>\$ 504</u>	<u>\$ 441</u>
Ratio of earnings to fixed charges, including preferred stock dividends.....	<u>1.32</u>	<u>1.83</u>
Ratios including interest on deposits:		
Total fixed charges, excluding interest on deposits.....	\$ 459	\$ 384
Add: Interest on deposits	222	100
Total fixed charges, including interest on deposits.....	<u>\$ 681</u>	<u>\$ 484</u>
Earnings from continuing operations before taxes and fixed charges.....	\$ 666	\$ 809
Add: Interest on deposits	222	100
Earnings from continuing operations before taxes and fixed charges, including interest on deposits	<u>\$ 888</u>	<u>\$ 909</u>
Ratio of earnings to fixed charges, including interest on deposits	<u>1.30</u>	<u>1.88</u>
Fixed charges, including preferred stock dividends	\$ 504	\$ 441
Add: Interest on deposits	222	100
Fixed charges, including interest on deposits and the preferred stock dividend factor	<u>\$ 726</u>	<u>\$ 541</u>
Ratio of earnings to fixed charges, including interest on deposits and preferred stock dividends.....	<u>1.22</u>	<u>1.68</u>

⁽¹⁾ Preferred stock dividends are grossed up to their pretax equivalents.

**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, Patrick J. Burke, 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;
 - c. 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 3, 2016

/s/ PATRICK J. BURKE

Patrick J. Burke

Chairman of the Board, President
and Chief Executive Officer

Certification of Chief Financial Officer

I, Mark A. Zaeske, 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;
 - c. 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 3, 2016

/s/ MARK A. ZAESKE

Mark A. Zaeske
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, 2016 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, Patrick J. Burke, 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 3, 2016

/s/ PATRICK J. BURKE

Patrick J. Burke

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, 2016 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, Mark A. Zaeske, 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 3, 2016

/s/ MARK A. ZAESKE

Mark A. Zaeske

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.