

MORGAN STANLEY  
Form 10-Q  
May 03, 2019  
Table of Contents

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

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

*For the quarterly period ended March 31, 2019*

Commission File Number 1-11758

(Exact Name of Registrant as specified in its charter)

**Delaware**

**1585 Broadway**

**36-3145972**

**(212) 761-4000**

(State or other jurisdiction of incorporation or organization) (Address of principal executive offices, including zip code) (I.R.S. Employer Identification No.) (Registrant's telephone number, including area code)

**Securities registered pursuant to Section 12(b) of the Act:**

Title of each class	Name of exchange on which registered	Trading Symbol(s)
Common Stock, \$0.01 par value	New York Stock Exchange	MS
Depository Shares, each representing 1/1,000th interest in a share of Floating Rate Non-Cumulative Preferred Stock, Series A, \$0.01 par value	New York Stock Exchange	MS/PA
Depository Shares, each representing 1/1,000th interest in a share of Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series E, \$0.01 par value	New York Stock Exchange	MS/PE
Depository Shares, each representing 1/1,000th interest in a share of Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series F, \$0.01 par value	New York Stock Exchange	MS/PF

Edgar Filing: MORGAN STANLEY - Form 10-Q

Depository Shares, each representing 1/1,000th interest in a share of 6.625%

Non-Cumulative Preferred Stock, Series G, \$0.01 par value New York Stock Exchange MS/PG

Depository Shares, each representing 1/1,000th interest in a share of Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series I, \$0.01 par value

New York Stock Exchange MS/PI

Depository Shares, each representing 1/1,000th interest in a share of Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series K, \$0.01 par value

New York Stock Exchange MS/PK

Global Medium-Term Notes, Series A, Fixed Rate Step-Up Senior Notes Due 2026 of

Morgan Stanley Finance LLC (and Registrant's guarantee with respect thereto)

New York Stock Exchange MS/26C

Market Vectors ETNs due March 31, 2020 (two issuances)

NYSE Arca, Inc. URR/DDR

Market Vectors ETNs due April 30, 2020 (two issuances)

NYSE Arca, Inc. CNY/INR

Morgan Stanley Cushing® MLP High Income Index ETNs due March 21, 2031

NYSE Arca, Inc. MLPY

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 every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes No

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

Large Accelerated Filer  Accelerated Filer  Non-Accelerated Filer  Smaller reporting company  Emerging growth company

If an emerging growth company, indicate by check mark if the Registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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 April 30, 2019, there were 1,682,234,555 shares of the Registrant's Common Stock, par value \$0.01 per share, outstanding.

**Table of Contents**

## QUARTERLY REPORT ON FORM 10-Q

*For the quarter ended March 31, 2019*

	Part	Item	Page
Table of Contents			
<b><u>Financial Information</u></b>	I		1
<b><u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u></b>	I	2	1
<u>Introduction</u>			1
<u>Executive Summary</u>			2
<u>Business Segments</u>			6
<u>Supplemental Financial Information and Disclosures</u>			13
<u>Accounting Development Updates</u>			13
<u>Critical Accounting Policies</u>			14
<u>Liquidity and Capital Resources</u>			14
<u>Balance Sheet</u>			14
<u>Regulatory Requirements</u>			19
<b><u>Quantitative and Qualitative Disclosures about Risk</u></b>	I	3	24
<u>Market Risk</u>			24
<u>Credit Risk</u>			26
<u>Country and Other Risks</u>			30
<u>Report of Independent Registered Public Accounting Firm</u>			33
<b><u>Consolidated Financial Statements and Notes</u></b>	I	1	34
<u>Consolidated Income Statements (Unaudited)</u>			34
<u>Consolidated Comprehensive Income Statements (Unaudited)</u>			35
<u>Consolidated Balance Sheets (Unaudited at March 31, 2019)</u>			36
<u>Consolidated Statements of Changes in Total Equity (Unaudited)</u>			37
<u>Consolidated Cash Flow Statements (Unaudited)</u>			38
<u>Notes to Consolidated Financial Statements (Unaudited)</u>			39
<u>1. Introduction and Basis of Presentation</u>			39
<u>2. Significant Accounting Policies</u>			40
<u>3. Fair Values</u>			40
<u>4. Derivative Instruments and Hedging Activities</u>			48
<u>5. Investment Securities</u>			51
<u>6. Collateralized Transactions</u>			54
<u>7. Loans, Lending Commitments and Allowance for Credit Losses</u>			55
<u>8. Equity Method Investments</u>			57
<u>9. Deposits</u>			58
<u>10. Borrowings and Other Secured Financings</u>			58
<u>11. Commitments, Leases, Guarantees and Contingencies</u>			58
<u>12. Variable Interest Entities and Securitization Activities</u>			63
<u>13. Regulatory Requirements</u>			65
<u>14. Total Equity</u>			67
<u>15. Earnings per Common Share</u>			69
<u>16. Interest Income and Interest Expense</u>			69
<u>17. Income Taxes</u>			69

<u>18. Segment, Geographic and Revenue Information</u>			70
<u>19. Subsequent Events</u>			71
<u>Financial Data Supplement (Unaudited)</u>			72
<u>Glossary of Common Acronyms</u>			73
<u>Other Information</u>	II		75
<u>Legal Proceedings</u>	II	1	75
<u>Unregistered Sales of Equity Securities and Use of Proceeds</u>	II	2	76
<u>Controls and Procedures</u>	I	4	77
<u>Exhibits</u>	II	6	77
<u>Exhibit Index</u>			E-1
<u>Signatures</u>			S-1

**Table of Contents**

**Available Information**

We file annual, quarterly and current reports, proxy statements and other information with the SEC. The SEC maintains an internet site, *www.sec.gov*, that contains annual, quarterly and current reports, proxy and information statements and other information that issuers file electronically with the SEC. Our electronic SEC filings are available to the public at the SEC's internet site.

Our internet site is *www.morganstanley.com*. You can access our Investor Relations webpage at *www.morganstanley.com/about-us-ir*. We make available free of charge, on or through our Investor Relations webpage, our Proxy Statements, Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and any amendments to those reports filed or furnished pursuant to the Securities Exchange Act of 1934, as amended ( Exchange Act ), as soon as reasonably practicable after such material is electronically filed with, or furnished to, the SEC. We also make available, through our Investor Relations webpage, via a link to the SEC's internet site, statements of beneficial ownership of our equity securities filed by our directors, officers, 10% or greater shareholders and others under Section 16 of the Exchange Act.

You can access information about our corporate governance at *www.morganstanley.com/about-us-governance*. Our Corporate Governance webpage includes:

- Amended and Restated Certificate of Incorporation;
- Amended and Restated Bylaws;
- Charters for our Audit Committee, Compensation, Management Development and Succession Committee, Nominating and Governance Committee, Operations and Technology Committee, and Risk Committee;
- Corporate Governance Policies;
- Policy Regarding Corporate Political Activities;
- Policy Regarding Shareholder Rights Plan;
- Equity Ownership Commitment;
- Code of Ethics and Business Conduct;
- Code of Conduct;
- Integrity Hotline Information; and
- Environmental and Social Policies.

Our Code of Ethics and Business Conduct applies to all directors, officers and employees, including our Chief Executive Officer, Chief Financial Officer and Deputy Chief Financial Officer. We will post any amendments to the Code of Ethics and Business Conduct and any waivers that are required to be disclosed by the rules of either the SEC or the New York Stock Exchange LLC ( NYSE ) on our internet site. You can request a copy of these documents, excluding exhibits, at no cost, by contacting Investor Relations, 1585 Broadway, New York, NY 10036 (212-761-4000). The information on our internet site is not incorporated by reference into this report.

---

**Table of Contents**

**Management Discussion and Analysis of Financial Condition and Results of Operations**

**Introduction**

Morgan Stanley is a global financial services firm that maintains significant market positions in each of its business segments Institutional Securities, Wealth Management and Investment Management. Morgan Stanley, through its subsidiaries and affiliates, provides a wide variety of products and services to a large and diversified group of clients and customers, including corporations, governments, financial institutions and individuals. Unless the context otherwise requires, the terms Morgan Stanley, Firm, us, we or our mean Morgan Stanley (the Parent Company) together with its consolidated subsidiaries. We define the following as part of our consolidated financial statements ( financial statements ): consolidated income statements ( income statements ), consolidated balance sheets ( balance sheets ) and consolidated cash flow statements ( cash flow statements ). See the Glossary of Common Acronyms for the definition of certain acronyms used throughout this Form 10-Q.

A description of the clients and principal products and services of each of our business segments is as follows:

*Institutional Securities* provides investment banking, sales and trading, lending and other services to corporations, governments, financial institutions, and high to ultra-high net worth clients. Investment banking services consist of capital raising and financial advisory services, including services relating to the underwriting of debt, equity and other securities, as well as advice on mergers and acquisitions, restructurings, real estate and project finance. Sales and trading services include sales, financing, prime brokerage and market-making activities in equity and fixed income products, including foreign exchange and commodities. Lending activities include originating corporate loans, commercial mortgage lending, providing secured lending facilities and extending financing to sales and trading customers. Other activities include investments and research.

*Wealth Management* provides a comprehensive array of financial services and solutions to individual investors and small to medium-sized businesses and institutions covering brokerage and investment advisory services; financial and wealth planning services; annuity and insurance products; securities-based lending, residential real estate loans and other lending products; banking and retirement plan services.

*Investment Management* provides a broad range of investment strategies and products that span geographies, asset classes, and public and private markets to a diverse group of clients across institutional and intermediary channels. Strategies and products include equity, fixed income, liquidity and alternative/other products. Institutional clients include defined benefit/defined contribution plans, foundations, endowments, government entities, sovereign wealth funds, insurance companies, third-party fund sponsors and corporations. Individual clients are served through intermediaries, including affiliated and non-affiliated distributors.

The results of operations in the past have been, and in the future may continue to be, materially affected by competition; risk factors; and legislative, legal and regulatory developments; as well as other factors. These factors also may have an adverse impact on our ability to achieve our strategic objectives. Additionally, the discussion of our results of operations herein may contain forward-looking statements. These statements, which reflect management's beliefs and expectations, are subject to risks and uncertainties that may cause actual results to differ materially. For a discussion of the risks and uncertainties that may affect our future results, see Forward-Looking Statements, Business Competition, Business Supervision and Regulation, and Risk Factors in the 2018 Form 10-K, and Liquidity

and Capital Resources Regulatory Requirements herein.

**Table of Contents**

**Management's Discussion and Analysis**

**Executive Summary**

**Overview of Financial Results**

***Consolidated Results***

**Net Revenues**

*(\$ in millions)*

**Net Income Applicable to Morgan Stanley**

*(\$ in millions)*

**Earnings per Common Share<sup>1</sup>**

1. For the calculation of basic and diluted EPS, see Note 15 to the financial statements.

We reported net revenues of \$10,286 million in the quarter ended March 31, 2019 ( current quarter, or 1Q 2019 ), compared with \$11,077 million in the quarter ended March 31, 2018 ( prior year quarter, or 1Q 2018 ). For the current quarter, net income applicable to Morgan Stanley was \$2,429 million, or \$1.39 per diluted common share, compared with \$2,668 million or \$1.45 per diluted common share, in the prior year quarter.

**Non-interest Expenses<sup>1</sup>**

*(\$ in millions)*

1.



The percentages on the bars in the chart represent the contribution of compensation and benefits expenses and non-compensation expenses to total non-interest expenses.

Compensation and benefits expenses of \$4,651 million in current quarter decreased 5% from \$4,914 million in the prior year quarter, primarily due to decreases in discretionary incentive compensation and the formulaic payout to Wealth Management representatives, both driven by lower revenues. These decreases were partially offset by increases in the fair value of investments to which certain deferred compensation plans are referenced and higher salaries.

Non-compensation expenses were \$2,680 million in the current quarter compared with \$2,743 million in the prior year quarter, representing a 2% decrease. This decrease was primarily due to lower litigation and volume-related expenses, partially offset by increased investment in technology.

*Income Taxes*

The current quarter includes intermittent net discrete tax benefits of \$101 million, primarily associated with the remeasurement of reserves and related interest due to new information with regard to multi-jurisdiction tax examinations. For further information, see Supplemental Financial Information and Disclosures Income Tax Matters herein.

**Table of Contents****Management's Discussion and Analysis****Selected Financial Information and Other Statistical Data**

<i>\$ in millions</i>	Three Months Ended March 31,	
	2019	2018
Income from continuing operations applicable to Morgan Stanley	\$ 2,429	\$ 2,670
Income (loss) from discontinued operations applicable to Morgan Stanley		(2)
Net income applicable to Morgan Stanley	2,429	2,668
Preferred stock dividends and other	93	93
<b>Earnings applicable to Morgan Stanley common shareholders</b>	<b>\$ 2,336</b>	<b>\$ 2,575</b>
Expense efficiency ratio <sup>1</sup>	71.3%	69.1%
ROE <sup>2</sup>	13.1%	14.9%
ROTCE <sup>2</sup>	14.9%	17.2%

<i>in millions, except per share and employee data</i>	At	At
	March 31,	December 31,
	2019	2018
GLR <sup>3</sup>	\$ 233,148	\$ 249,735
Loans <sup>4</sup>	\$ 116,197	\$ 115,579
Total assets	\$ 875,964	\$ 853,531
Deposits	\$ 179,731	\$ 187,820
Borrowings	\$ 190,691	\$ 189,662
Common shares outstanding	1,686	1,700
Common shareholders' equity	\$ 72,204	\$ 71,726
Tangible common shareholders' equity <sup>2</sup>	\$ 63,434	\$ 62,879
Book value per common share <sup>5</sup>	\$ 42.83	\$ 42.20
Tangible book value per common share <sup>2, 5</sup>	\$ 37.62	\$ 36.99
Worldwide employees	60,469	60,348

	At	At
	March 31,	December 31,
	2019	2018
<b>Capital ratios<sup>6</sup></b>		
Common Equity Tier 1 capital	16.7%	16.9%

Tier 1 capital	<b>19.0%</b>	19.2%
Total capital	<b>21.6%</b>	21.8%
Tier 1 leverage	<b>8.4%</b>	8.4%
SLR	<b>6.5%</b>	6.5%

1. The expense efficiency ratio represents total non-interest expense as a percentage of net revenues.
2. Represents a non-GAAP measure. See Selected Non-GAAP Financial Information herein.
3. For a discussion of the GLR, see Liquidity and Capital Resources Liquidity Risk Management Framework Global Liquidity Reserve herein.
4. Amounts include loans held for investment (net of allowance) and loans held for sale but exclude loans at fair value, which are included in Trading assets in the balance sheets (see Note 7 to the financial statements).
5. Book value per common share and tangible book value per common share equal common shareholders equity and tangible common shareholders equity, respectively, divided by common shares outstanding.
6. At March 31, 2019 and December 31 2018, our risk-based capital ratios are based on the Standardized Approach rules. For a discussion of our capital ratios, see Liquidity and Capital Resources Regulatory Requirements herein.

### **Business Segment Results**

#### **Net Revenues by Segment<sup>1, 2</sup>**

*(\$ in millions)*

#### **Net Income Applicable to Morgan Stanley by Segment<sup>1, 3</sup>**

*(\$ in millions)*

1. The percentages on the bars in the charts represent the contribution of each business segment to the total of the applicable financial category and may not total to 100% due to intersegment eliminations.
2. The total amount of Net Revenues by Segment includes intersegment eliminations of \$(103) million and \$(115) million in the current quarter and prior year quarter, respectively.
3. The total amount of Net Income Applicable to Morgan Stanley by Segment includes intersegment eliminations of \$(2) million in the current quarter.

Institutional Securities net revenues of \$5,196 million in the current quarter decreased 15% from the prior year quarter, primarily reflecting lower revenues from both sales and trading and Investment banking.

Wealth Management net revenues were relatively unchanged from the prior year quarter.

Investment Management net revenues of \$804 million in the current quarter increased 12% from the prior year quarter, primarily reflecting higher revenues from Investments.



**Table of Contents****Management's Discussion and Analysis****Net Revenues by Region<sup>1, 2</sup>***(\$ in millions)*

1. For a discussion of how the geographic breakdown of net revenues is determined, see Note 18 to the financial statements.
2. The percentages on the bars in the charts represent the contribution of each region to the total.

**Selected Non-GAAP Financial Information**

We prepare our financial statements using U.S. GAAP. From time to time, we may disclose certain non-GAAP financial measures in this document or in the course of our earnings releases, earnings and other conference calls, financial presentations, Definitive Proxy Statement and otherwise. A non-GAAP financial measure excludes, or includes, amounts from the most directly comparable measure calculated and presented in accordance with U.S. GAAP. We consider the non-GAAP financial measures we disclose to be useful to us, analysts, investors and other stakeholders by providing further transparency about, or an alternate means of assessing, our financial condition, operating results, prospective regulatory capital requirements or capital adequacy.

These measures are not in accordance with, or a substitute for, U.S. GAAP and may be different from or inconsistent with non-GAAP financial measures used by other companies. Whenever we refer to a non-GAAP financial measure, we will also generally define it or present the most directly comparable financial measure calculated and presented in accordance with U.S. GAAP, along with a reconciliation of the differences between the U.S. GAAP financial measure and the non-GAAP financial measure.

The principal non-GAAP financial measures presented in this document are set forth in the following tables.

**Reconciliations from U.S. GAAP to Non-GAAP Consolidated Financial Measures**

<i>\$ in millions, except per share data</i>	Three Months Ended March 31,	
	2019	2018
<b>Net income applicable to Morgan Stanley</b>	\$ 2,429	\$ 2,668
Impact of adjustments	(101)	
<b>Adjusted net income applicable to Morgan Stanley non-GAAP</b>	\$ 2,328	\$ 2,668

<b>Earnings per diluted common share</b>	\$	<b>1.39</b>	\$	1.45
Impact of adjustments		<b>(0.06)</b>		
Adjusted earnings per diluted common share non-GAAP	\$	<b>1.33</b>	\$	1.45
<b>Effective income tax rate</b>		<b>16.5%</b>		20.9%
Impact of adjustments		<b>3.4%</b>		%
Adjusted effective income tax rate non-GAAP		<b>19.9%</b>		20.9%

<i>\$ in millions</i>	At			
	March 31, 2019	At December 31, 2018		
<b>Tangible equity</b>				
<b>U.S. GAAP</b>				
Morgan Stanley shareholders' equity	\$	<b>80,724</b>	\$	80,246
Less: Goodwill and net intangible assets		<b>(8,770)</b>		(8,847)
<b>Tangible Morgan Stanley shareholders' equity non-GAAP</b>	\$	<b>71,954</b>	\$	71,399
<b>U.S. GAAP</b>				
Common shareholders' equity	\$	<b>72,204</b>	\$	71,726
Less: Goodwill and net intangible assets		<b>(8,770)</b>		(8,847)
<b>Tangible common shareholders' equity non-GAAP</b>	\$	<b>63,434</b>	\$	62,879

**Table of Contents****Management's Discussion and Analysis****Consolidated Non-GAAP Financial Measures**

<i>\$ in millions</i>	Average Monthly Balance Three Months Ended March 31,	
	2019	2018
<b>Tangible equity</b>		
Morgan Stanley shareholders' equity	\$ 80,115	\$ 77,507
Less: Goodwill and net intangible assets	(8,806)	(9,043)
<b>Tangible Morgan Stanley shareholders' equity</b>	\$ 71,309	\$ 68,464
Common shareholders' equity	\$ 71,595	\$ 68,987
Less: Goodwill and net intangible assets	(8,806)	(9,043)
<b>Tangible common shareholders' equity</b>	\$ 62,789	\$ 59,944

<i>\$ in billions</i>	Three Months Ended March 31,	
	2019	2018
<b>Average common equity</b>		
Unadjusted	\$ 71.6	\$ 69.0
Adjusted <sup>1</sup>	71.5	69.0
<b>ROE<sup>2</sup></b>		
Unadjusted	13.1%	14.9%
Adjusted <sup>1, 3</sup>	12.5%	14.9%
<b>Average tangible common equity</b>		
Unadjusted	\$ 62.8	\$ 59.9
Adjusted <sup>1</sup>	62.7	59.9
<b>ROTCE<sup>2</sup></b>		
Unadjusted	14.9%	17.2%
Adjusted <sup>1, 3</sup>	14.2%	17.2%

**Non-GAAP Financial Measures by Business Segment**

<i>\$ in billions</i>	Three Months Ended March 31,	
	2019	2018

<b>Pre-tax margin<sup>4</sup></b>		
Institutional Securities	31%	35%
Wealth Management	27%	27%
Investment Management	22%	21%
Consolidated	29%	31%
<b>Average common equity<sup>5</sup></b>		
Institutional Securities	\$ 40.4	\$ 40.8
Wealth Management	18.2	16.8
Investment Management	2.5	2.6
Parent	10.5	8.8
<b>Consolidated average common equity</b>	<b>\$ 71.6</b>	<b>\$ 69.0</b>
<b>Average tangible common equity<sup>5</sup></b>		
Institutional Securities	\$ 39.9	\$ 40.1
Wealth Management	10.2	9.2
Investment Management	1.5	1.7
Parent	11.2	8.9
<b>Consolidated average tangible common equity</b>	<b>\$ 62.8</b>	<b>\$ 59.9</b>
<b>ROE<sup>2, 6</sup></b>		
Institutional Securities	12.9%	15.2%
Wealth Management	19.8%	21.3%
Investment Management	21.9%	19.3%
Consolidated	13.1%	14.9%
<b>ROTCE<sup>2, 6</sup></b>		
Institutional Securities	13.0%	15.5%
Wealth Management	35.6%	38.9%
Investment Management	35.3%	30.3%
Consolidated	14.9%	17.2%

- Adjusted amounts exclude intermittent net discrete tax provisions (benefits). We consider certain income tax consequences associated with employee share-based awards recognized in Provision for income taxes in the income statements to be recurring-type ( Recurring ) discrete tax items, as we anticipate some level of conversion activity each quarter. Accordingly, these Recurring discrete tax provisions (benefits) are not part of the adjustment for intermittent net discrete tax provisions (benefits). For further information on the net discrete tax provisions (benefits), see Supplemental Financial Information and Disclosures Income Tax Matters herein.
- ROE and ROTCE represent annualized net income applicable to Morgan Stanley less preferred dividends as a percentage of average common equity and average tangible common equity, respectively. When excluding intermittent net discrete tax provisions (benefits), both the numerator and average denominator are adjusted.
- The calculations used in determining our ROE and ROTCE Targets referred to in the following section are the Adjusted ROE and Adjusted ROTCE amounts shown in this table.
- Pre-tax margin represents income from continuing operations before income taxes as a percentage of net revenues.
- Average common equity and average tangible common equity for each business segment are determined using our Required Capital framework (see Liquidity and Capital Resources Regulatory Requirements Attribution of Average Common Equity According to the Required Capital Framework herein).
- The calculation of ROE and ROTCE by segment uses net income applicable to Morgan Stanley by segment less preferred dividends allocated to each segment as a percentage of average common equity and average tangible common equity, respectively, allocated to each segment.



**Table of Contents**

**Management's Discussion and Analysis**

**Return on Equity and Tangible Common Equity Targets**

We have established an ROE Target of 10% to 13% and an ROTCE Target of 11.5% to 14.5%.

Our ROE and ROTCE Targets are forward-looking statements that may be materially affected by many factors, including, among other things: macroeconomic and market conditions; legislative and regulatory developments; industry trading and investment banking volumes; equity market levels; interest rate environment; outsized legal expenses or penalties and the ability to maintain a reduced level of expenses; and capital levels. For further information on our ROE and ROTCE Targets and related assumptions, see Management's Discussion and Analysis of Financial Condition and Results of Operations Executive Summary Return on Equity and Tangible Common Equity Targets in the 2018 Form 10-K.

**Business Segments**

Substantially all of our operating revenues and operating expenses are directly attributable to our business segments. Certain revenues and expenses have been allocated to each business segment, generally in proportion to its respective net revenues, non-interest expenses or other relevant measures.

For an overview of the components of our business segments, net revenues, compensation expense and income taxes, see Management's Discussion and Analysis of Financial Condition and Results of Operations Business Segments in the 2018 Form 10-K.

With respect to Institutional Securities sales and trading activities, Commodities products and Other also includes Trading revenues from managing derivative counterparty credit risk on behalf of clients, in addition to results from the centralized management of our fixed income derivative counterparty exposures.

Table of Contents

## Management's Discussion and Analysis

## Institutional Securities

## Income Statement Information

<i>\$ in millions</i>	Three Months Ended March 31,		% Change
	2019	2018	
<b>Revenues</b>			
Investment banking	\$ 1,151	\$ 1,513	(24)%
Trading	3,130	3,643	(14)%
Investments	81	49	65%
Commissions and fees	621	744	(17)%
Asset management	107	110	(3)%
Other	222	136	63%
Total non-interest revenues	5,312	6,195	(14)%
Interest income	3,056	1,804	69%
Interest expense	3,172	1,899	67%
Net interest	(116)	(95)	(22)%
<b>Net revenues</b>	<b>5,196</b>	<b>6,100</b>	<b>(15)%</b>
Compensation and benefits	1,819	2,160	(16)%
Non-compensation expenses	1,782	1,828	(3)%
<b>Total non-interest expenses</b>	<b>3,601</b>	<b>3,988</b>	<b>(10)%</b>
Income from continuing operations before income taxes	1,595	2,112	(24)%
Provision for income taxes	190	449	(58)%
Income from continuing operations	1,405	1,663	(16)%
Income (loss) from discontinued operations, net of income taxes		(2)	100%
Net income	1,405	1,661	(15)%
Net income applicable to noncontrolling interests	34	34	%
<b>Net income applicable to Morgan Stanley</b>	<b>\$ 1,371</b>	<b>\$ 1,627</b>	<b>(16)%</b>

*Investment Banking*

## Investment Banking Revenues

<i>\$ in millions</i>	Three Months Ended March 31,		% Change
	2019	2018	
Advisory	\$ 406	\$ 574	(29)%

Underwriting:			
Equity	<b>339</b>	421	<b>(19)%</b>
Fixed income	<b>406</b>	518	<b>(22)%</b>
Total Underwriting	<b>745</b>	939	<b>(21)%</b>
<b>Total Investment banking</b>	<b>\$ 1,151</b>	\$ 1,513	<b>(24)%</b>
<b>Investment Banking Volumes</b>			

		Three Months Ended March 31,	
<i>\$ in billions</i>		<b>2019</b>	2018
Completed mergers and acquisitions <sup>1</sup>		\$ <b>187</b>	\$ 170
Equity and equity-related offerings <sup>2, 3</sup>		<b>14</b>	22
Fixed income offerings <sup>2, 4</sup>		<b>54</b>	58

Source: Refinitiv (formerly Thomson Reuters Financial & Risk), data as of April 1, 2019. Transaction volumes may not be indicative of net revenues in a given period. In addition, transaction volumes for prior periods may vary from amounts previously reported due to the subsequent withdrawal, change in value, or change in timing of certain transactions.

1. Includes transactions of \$100 million or more. Based on full credit to each of the advisors in a transaction.
  2. Based on full credit for single book managers and equal credit for joint book managers.
  3. Includes Rule 144A issuances and registered public offerings of common stock and convertible securities and rights offerings.
  4. Includes Rule 144A and publicly registered issuances, non-convertible preferred stock, mortgage-backed and asset-backed securities, and taxable municipal debt. Excludes leveraged loans and self-led issuances.
- Investment banking revenues of \$1,151 million in the current quarter decreased 24%, reflecting lower results in both our advisory and underwriting businesses.

Advisory revenues decreased in the current quarter primarily due to the effect of lower fee realizations.

Equity underwriting revenues decreased in the current quarter primarily as a result of lower volumes. Revenues decreased primarily in initial public offerings, follow-ons and convertible issuances, partially offset by an increase in secondary block share trades.

Fixed income underwriting revenues decreased in the current quarter due to the effect of lower fee realizations and lower volumes. Revenues decreased primarily in non-investment grade loan fees.

See Investment Banking Volumes herein.

**Table of Contents****Management's Discussion and Analysis****Sales and Trading Net Revenues****By Income Statement Line Item**

<i>\$ in millions</i>	Three Months Ended		% Change
	2019	2018	
		March 31,	
Trading	<b>\$ 3,130</b>	\$ 3,643	<b>(14)%</b>
Commissions and fees	<b>621</b>	744	<b>(17)%</b>
Asset management	<b>107</b>	110	<b>(3)%</b>
Net interest	<b>(116)</b>	(95)	<b>(22)%</b>
<b>Total</b>	<b>\$ 3,742</b>	\$ 4,402	<b>(15)%</b>

**By Business**

<i>\$ in millions</i>	Three Months Ended		% Change
	2019	2018	
		March 31,	
Equity	<b>\$ 2,015</b>	\$ 2,558	<b>(21)%</b>
Fixed income	<b>1,710</b>	1,873	<b>(9)%</b>
Other	<b>17</b>	(29)	<b>159%</b>
<b>Total</b>	<b>\$ 3,742</b>	\$ 4,402	<b>(15)%</b>

**Sales and Trading Revenues Equity and Fixed Income**

<i>\$ in millions</i>	Three Months Ended			
	March 31, 2019			
	Trading	Fees <sup>1</sup>	Net Interest <sup>2</sup>	Total
Financing	\$ 1,115	\$ 98	\$ (258)	\$ 955
Execution services	551	553	(44)	1,060
<b>Total Equity</b>	<b>\$ 1,666</b>	<b>\$ 651</b>	<b>\$ (302)</b>	<b>\$ 2,015</b>
<b>Total Fixed income</b>	<b>\$ 1,727</b>	<b>\$ 78</b>	<b>\$ (95)</b>	<b>\$ 1,710</b>

Three Months Ended  
March 31, 2018

<i>\$ in millions</i>	Trading	Fees <sup>1</sup>	Net Interest <sup>2</sup>	Total
Financing	\$ 1,234	\$ 107	\$ (146)	\$ 1,195
Execution services	791	664	(92)	1,363
<b>Total Equity</b>	<b>\$ 2,025</b>	<b>\$ 771</b>	<b>\$ (238)</b>	<b>\$ 2,558</b>
<b>Total Fixed income</b>	<b>\$ 1,715</b>	<b>\$ 83</b>	<b>\$ 75</b>	<b>\$ 1,873</b>

1. Includes Commissions and fees and Asset management revenues.

2. Includes funding costs, which are allocated to the businesses based on funding usage.

As discussed in Management's Discussion and Analysis of Financial Condition and Results of Operations Business Segments Net Revenues by Segment in the 2018 Form 10-K, we manage each of the sales and trading businesses based on its aggregate net revenues. We provide qualitative commentary in the discussion of results that follow on the key drivers of period over period variances, as the quantitative impact of the various market dynamics typically cannot be disaggregated.

For additional information on total Trading revenues, see the table Trading Revenues by Product Type in Note 18 to the financial statements.

### **Equity**

Equity sales and trading net revenues of \$2,015 million in the current quarter decreased 21% from the prior year quarter, reflecting lower results in both our financing and execution services businesses.

Financing decreased from the prior year quarter, primarily due to lower average client balances, which resulted in lower Trading and Net interest revenues. Additionally, Net interest revenues decreased due to higher funding costs attributable to higher rates and changes in funding mix.

Execution services decreased from the prior year quarter, reflecting lower Trading revenues as a result of less favorable inventory management and lower client activity in derivatives products. In addition, Commissions and fees decreased due to lower client activity in cash equities products.

### **Fixed Income**

Fixed income net revenues of \$1,710 million in the current quarter were 9% lower than the prior year quarter, primarily driven by lower revenues in global macro products and lower Net interest revenues due to higher funding costs, partially offset by higher revenues in credit products and commodities products and other.

Global macro products revenues decreased reflecting unfavorable inventory management while the level of client activity remained consistent.

Credit products Trading revenues increased primarily in corporate credit products driven by higher client activity, partially offset by lower client activity in securitized products.

Edgar Filing: MORGAN STANLEY - Form 10-Q

Commodities products and Other Trading revenues increased primarily as a result of gains from client structuring activity within derivatives counterparty credit risk management and effective inventory management in commodities, partially offset by decreased client activity in structured transactions within commodities.

***Other***

Other sales and trading net gains of \$17 million in the current quarter increased from the prior year quarter, primarily due to an increase in the fair value of investments to which certain deferred compensation plans are referenced, partially offset by higher losses on hedges associated with corporate loans.

**Table of Contents**

**Management's Discussion and Analysis**

***Investments, Other Revenues, Non-interest Expenses, and Income Tax Items***

***Investments***

Net investment gains of \$81 million in the current quarter increased from the prior year quarter as a result of higher revenues driven by a fund distribution and gains on real estate limited partnership investments.

***Other Revenues***

Other revenues of \$222 million in the current quarter increased from the prior year quarter, primarily reflecting higher mark-to-market gains on held for sale loans, partially offset by lower results from certain equity method investments.

***Non-interest Expenses***

Non-interest expenses of \$3,601 million in the current quarter decreased from the prior year quarter, reflecting a 16% decrease in Compensation and benefits expenses and a 3% decrease in Non-compensation expenses.

Compensation and benefits expenses decreased in the current quarter, primarily due to decreases in discretionary incentive compensation driven by lower revenues, partially offset by increases in the fair value of investments to which certain deferred compensation plans are referenced and higher salaries.

Non-compensation expenses decreased in the current quarter, primarily due to lower litigation and volume-related expenses, partially offset by increased investment in technology and higher professional service expenses.

***Income Tax Items***

The current quarter includes intermittent net discrete tax benefits of \$101 million. For further information, see Supplemental Financial Information and Disclosures Income Tax Matters herein.

**Table of Contents****Management's Discussion and Analysis****Wealth Management****Income Statement Information**

<i>\$ in millions</i>	Three Months Ended		
	2019	2018	% Change
<b>Revenues</b>			
Investment banking	\$ 109	\$ 140	(22)%
Trading	302	109	177%
Investments	1		N/M
Commissions and fees	406	498	(18)%
Asset management	2,361	2,495	(5)%
Other	80	63	27%
Total non-interest revenues	3,259	3,305	(1)%
Interest income	1,413	1,280	10%
Interest expense	283	211	34%
Net interest	1,130	1,069	6%
<b>Net revenues</b>	<b>4,389</b>	<b>4,374</b>	<b>%</b>
Compensation and benefits	2,462	2,450	%
Non-compensation expenses	739	764	(3)%
<b>Total non-interest expenses</b>	<b>3,201</b>	<b>3,214</b>	<b>%</b>
Income from continuing operations before income taxes	1,188	1,160	2%
Provision for income taxes	264	246	7%
<b>Net income applicable to Morgan Stanley</b>	<b>\$ 924</b>	<b>\$ 914</b>	<b>1%</b>

**Financial Information and Statistical Data**

<i>\$ in billions, except employee data</i>	At	
	March 31, 2019	December 31, 2018
Client assets	\$ 2,476	\$ 2,303
Fee-based client assets <sup>1</sup>	\$ 1,116	\$ 1,046
Fee-based client assets as a percentage of total client assets	45%	45%
Client liabilities <sup>2</sup>	\$ 82	\$ 83
Investment securities portfolio	\$ 71.3	\$ 68.6



Loans and lending commitments	\$	83.6	\$	82.9
Wealth Management representatives		15,708		15,694

	Three Months Ended March 31,	
	2019	2018
Per representative:		
Annualized revenues (\$ in thousands) <sup>3</sup>	\$ 1,118	\$ 1,115
Client assets (\$ in millions) <sup>4</sup>	\$ 158	\$ 151
Fee-based asset flows (\$ in billions) <sup>5</sup>	\$ 14.8	\$ 18.2

1. Fee-based client assets represent the amount of assets in client accounts where the fee for services is calculated based on those assets.
2. Client liabilities include securities-based and tailored lending, residential real estate loans and margin lending.
3. Revenues per representative equal Wealth Management's annualized net revenues divided by the average number of representatives.
4. Client assets per representative equal total period-end client assets divided by period-end number of representatives.
5. For a description of the Inflows and Outflows included within Fee-based asset flows, see Management's Discussion and Analysis of Financial Condition and Results of Operations Business Segments Wealth Management Fee-Based Client Assets in the 2018 Form 10-K. Excludes institutional cash management-related activity.

### Transactional Revenues

\$ in millions	Three Months Ended March 31,		% Change
	2019	2018	
Investment banking	\$ 109	\$ 140	(22)%
Trading	302	109	177%
Commissions and fees	406	498	(18)%
Total	\$ 817	\$ 747	9%
Transactional revenues as a % of Net revenues	19%	17%	

### Net Revenues

#### Transactional Revenues

Transactional revenues of \$817 million in the current quarter increased 9% from the prior year quarter as a result of higher Trading revenues, partially offset by lower Commissions and fees and Investment banking revenues.

Investment banking revenues decreased in the current quarter primarily due to lower revenues from structured products issuances.

Trading revenues increased in the current quarter primarily due to gains related to investments associated with certain employee deferred compensation plans compared with losses in the prior year quarter.

Commissions and fees decreased in the current quarter primarily due to decreased client activity in equities.

***Asset Management***

Asset management revenues of \$2,361 million in the current quarter decreased 5% from the prior year quarter primarily reflecting lower fee-based client assets levels at the beginning of the current quarter due to fourth quarter market depreciation, partially offset by positive net flows.

See Fee-Based Client Assets Rollforwards herein.

**Table of Contents****Management's Discussion and Analysis****Net Interest**

Net interest of \$1,130 million in the current quarter increased 6% from the prior year quarter primarily as a result of higher interest rates on loans and cash management activities and higher investment securities balances, partially offset by the effect of higher interest rates on Deposits due to changes in funding mix.

In addition, we centralized certain internal treasury activities as of January 1, 2019, which partially offset the increases in Interest income and Interest expense compared with the prior year quarter. This impact is expected to continue in future periods. The effect on Net interest income was not significant in the current quarter, nor is it expected to be for the full year 2019.

**Non-interest Expenses**

Non-interest expenses of \$3,201 million were relatively unchanged from the prior year quarter.

Compensation and benefits expenses increased modestly from the prior year quarter, reflecting increases in the fair value of investments to which certain deferred compensation plans are referenced and salaries, offset by decreases in the formulaic payout to Wealth Management representatives linked to lower revenues and the roll-off of certain merger-related employee retention loans.

Non-compensation expenses decreased due to lower consulting fees and deposit insurance expenses.

**Fee-Based Client Assets****Rollforwards**

	At			At	
	December 31,	Inflows	Outflows	Market	March 31,
<i>\$ in billions</i>	2018			Impact	2019
Separately managed <sup>1</sup>	\$ 279	\$ 14	\$ (5)	\$ (12)	\$ 276
Unified managed <sup>2</sup>	257	13	(11)	24	283
Advisor	137	8	(9)	11	147
Portfolio manager	353	19	(14)	33	391
Subtotal	\$ 1,026	\$ 54	\$ (39)	\$ 56	\$ 1,097
Cash management	20	4	(5)		19
	\$ 1,046	\$ 58	\$ (44)	\$ 56	\$ 1,116

**Total fee-based  
client assets**

<i>\$ in billions</i>	At			At	
	December 31, 2017	Inflows	Outflows	Market Impact	March 31, 2018
Separately managed <sup>1</sup>	\$ 252	\$ 10	\$ (6)	\$ 4	\$ 260
Unified managed <sup>2</sup>	271	14	(9)	(2)	274
Advisor	149	9	(9)	(2)	147
Portfolio manager	353	21	(12)	(6)	356
Subtotal	\$ 1,025	\$ 54	\$ (36)	\$ (6)	\$ 1,037
Cash management	20	4	(3)		21
<b>Total fee-based client assets</b>	<b>\$ 1,045</b>	<b>\$ 58</b>	<b>\$ (39)</b>	<b>\$ (6)</b>	<b>\$ 1,058</b>
<b>Average Fee Rates<sup>3</sup></b>					

<i>Fee rate in bps</i>	Three Months Ended March 31,	
	2019	2018
Separately managed	14	16
Unified managed <sup>2</sup>	101	99
Advisor	88	85
Portfolio manager	96	96
Subtotal	74	76
Cash management	6	6
Total fee-based client assets	73	75

1. Includes non-custody account values reflecting prior quarter-end balances due to a lag in the reporting of asset values by third-party custodians.

2. Includes Mutual fund advisory accounts. Prior periods have been recast to conform to the current presentation.

3. The calculation of average fee rates was changed in the current quarter to more closely align with the recognition of the related fee revenue. Prior period rates were not changed due to immateriality.

For a description of fee-based client assets and rollforward items in the previous tables, see Management's Discussion and Analysis of Financial Condition and Results of Operations Business Segments Wealth Management Fee-Based Client Assets in the 2018 Form 10-K.

**Table of Contents****Management's Discussion and Analysis****Investment Management****Income Statement Information**

<i>\$ in millions</i>	Three Months Ended March 31,		<b>% Change</b>
	<b>2019</b>	2018	
<b>Revenues</b>			
Trading	\$ (3)	\$ 5	(160)%
Investments	191	77	148%
Asset management	617	626	(1)%
Other	3	10	(70)%
Total non-interest revenues	808	718	13%
Interest income	4	1	N/M
Interest expense	8	1	N/M
Net interest	(4)		N/M
<b>Net revenues</b>	<b>804</b>	718	<b>12%</b>
Compensation and benefits	370	304	22%
Non-compensation expenses	260	266	(2)%
<b>Total non-interest expenses</b>	<b>630</b>	570	<b>11%</b>
Income from continuing operations before income taxes	174	148	18%
Provision for income taxes	33	19	74%
Net income	141	129	9%
Net income applicable to noncontrolling interests	5	2	150%
<b>Net income applicable to Morgan Stanley</b>	<b>\$ 136</b>	\$ 127	<b>7%</b>
<b>Net Revenues</b>			

***Investments***

Investments gains of \$191 million in the current quarter increased 148% from the prior year quarter primarily as a result of higher carried interest in certain Asia private equity and infrastructure funds.

***Asset Management***

Asset management revenues of \$617 million in the current quarter were relatively unchanged from the prior year quarter, as average AUM and average fee rates remained stable.

See "Assets Under Management or Supervision" herein.

**Non-interest Expenses**

Non-interest expenses of \$630 million in the current quarter increased 11% from the prior year quarter primarily as a result of higher compensation and benefits expenses.

Compensation and benefits expenses increased in the current quarter primarily due to deferred compensation associated with carried interest.

Non-compensation expenses were relatively unchanged from the prior year quarter.

### Assets Under Management or Supervision

#### Rollforwards

<i>\$ in billions</i>	At December 31,			Market		2019
	2018	Inflows	Outflows	Impact	Other	
Equity	\$ 103	\$ 9	\$ (8)	\$ 16	\$	\$ 120
Fixed income	68	6	(7)	1		68
Alternative/Other	128	5	(4)	5	(1)	133
Long-term AUM subtotal	299	20	(19)	22	(1)	321
Liquidity	164	343	(348)	1	(1)	159
<b>Total AUM</b>	<b>\$ 463</b>	<b>\$ 363</b>	<b>\$ (367)</b>	<b>\$ 23</b>	<b>\$ (2)</b>	<b>\$ 480</b>
Shares of minority stake assets	7					6

<i>\$ in billions</i>	At December 31,			Market		2018
	2017	Inflows	Outflows	Impact	Other <sup>1</sup>	
Equity	\$ 105	\$ 9	\$ (7)	\$ 1	\$ 1	\$ 109
Fixed income	73	7	(8)	(1)	1	72
Alternative/Other	128	4	(4)		3	131
Long-term AUM subtotal	306	20	(19)		5	312
Liquidity	176	325	(344)			157
<b>Total AUM</b>	<b>\$ 482</b>	<b>\$ 345</b>	<b>\$ (363)</b>	<b>\$</b>	<b>\$ 5</b>	<b>\$ 469</b>
Shares of minority stake assets	7					7

1. Includes the impact of the Mesa West Capital, LLC acquisition.

#### Average AUM

<i>\$ in billions</i>	Three Months Ended	
	2019	2018
		March 31,
Equity	\$ 113	\$ 109
Fixed income	68	73
Alternative/Other	131	129
Long-term AUM subtotal	312	311
Liquidity	163	163
<b>Total AUM</b>	<b>\$ 475</b>	<b>\$ 474</b>
Shares of minority stake assets	6	7
<b>Average Fee Rates</b>		

<i>Fee rate in bps</i>	Three Months Ended	
	2019	2018
		March 31,
Equity	76	76
Fixed income	32	35
Alternative/Other	68	68
Long-term AUM	63	63
Liquidity	17	18
Total AUM	47	47

For a description of the asset classes and rollforward items in the previous tables, see Management's Discussion and Analysis of Financial Condition and Results of Operations Business Segments Investment Management Assets Under Management or Supervision in the 2018 Form 10-K.

**Table of Contents****Management's Discussion and Analysis****Supplemental Financial Information and****Disclosures****Income Tax Matters****Effective Tax Rate from Continuing Operations**

<i>\$ in millions</i>	Three Months Ended	
	March 31,	
	2019	2018
U.S. GAAP	16.5%	20.9%
Adjusted effective income tax rate non-GAAP	19.9%	20.9%
<b>Net discrete tax provisions/(benefits)</b>		
Recurring <sup>2</sup>	\$ (107)	\$ (147)
Intermittent <sup>3</sup>	\$ (101)	\$

- Adjusted effective income tax rate is a non-GAAP measure that excludes intermittent net discrete tax provisions (benefits). For further information on non-GAAP measures, see Selected Non-GAAP Financial Information herein.
- We consider certain income tax consequences associated with employee share-based awards recognized in Provision for income taxes in the income statements to be Recurring discrete tax items as we anticipate some level of conversion activity each quarter. Accordingly, these Recurring discrete tax provisions (benefits) are not part of the adjustment for intermittent net discrete tax provisions (benefits).
- Includes all tax provisions (benefits) that have been determined to be discrete, other than Recurring items as defined above.

The current quarter includes intermittent net discrete tax benefits primarily associated with the remeasurement of reserves and related interest due to new information with regard to multi-jurisdiction tax examinations.

**U.S. Bank Subsidiaries**

Our U.S. bank subsidiaries, Morgan Stanley Bank N.A. ( MSBNA ) and Morgan Stanley Private Bank, National Association ( MSPBNA ) (collectively, U.S. Bank Subsidiaries ) accept deposit accounts, provide loans to a variety of customers, from large corporate and institutional clients to high net worth individuals, and invest in securities. The lending activities in the Institutional Securities business segment primarily include loans and lending commitments to corporate clients. The lending activities in the Wealth Management business segment primarily include securities-based lending, which allows clients to borrow money against the value of qualifying securities, and residential real estate loans.



We expect our lending activities to continue to grow through further market penetration of our client base. For a further discussion of our credit risks, see [Quantitative and Qualitative Disclosures about Risk - Credit Risk](#). For a further discussion about loans and lending commitments, see Notes 7 and 11 to the financial statements.

### U.S. Bank Subsidiaries Supplemental Financial Information

<i>\$ in billions</i>	At March 31, 2019	At December 31, 2018
Assets	\$ 210.3	\$ 216.9
Investment securities portfolio:		
Investment securities - AFS	44.5	45.5
Investment securities - HTM	27.8	23.7
<b>Total investment securities</b>	<b>\$ 72.3</b>	<b>\$ 69.2</b>
Deposits <sup>2</sup>	\$ 179.1	\$ 187.1
<b>Wealth Management Loans</b>		
Securities-based lending and other <sup>3</sup>	\$ 43.5	\$ 44.7
Residential real estate	28.0	27.5
<b>Total</b>	<b>\$ 71.5</b>	<b>\$ 72.2</b>
<b>Institutional Securities Loans<sup>4</sup></b>		
Corporate <sup>5</sup> :		
Corporate relationship and event-driven lending	\$ 7.4	\$ 7.4
Secured lending facilities	19.3	17.5
Securities-based lending and other	5.6	6.0
Commercial and residential real estate	11.8	10.5
<b>Total</b>	<b>\$ 44.1</b>	<b>\$ 41.4</b>

1. Amounts exclude transactions between the bank subsidiaries, as well as deposits from the Parent Company and affiliates.

2. For further information on deposits, see [Liquidity and Capital Resources - Funding Management - Unsecured Financing](#) herein.

3. Other loans primarily include tailored lending.

4. Prior periods have been conformed to the current presentation.

5. For a further discussion of Corporate loans in the Institutional Securities business segment, see [Credit Risk - Institutional Securities - Corporate Loans](#) herein.

### Accounting Development Updates

The Financial Accounting Standards Board has issued certain accounting updates that apply to us. Accounting updates not listed below were assessed and determined to be either not applicable or are not expected to have a significant impact on our financial statements.

The following accounting update is currently being evaluated to determine the potential impact of adoption:

*Financial Instruments Credit Losses.* This accounting update impacts the impairment model for certain financial assets measured at amortized cost by requiring a CECL methodology to estimate expected credit losses over the entire life of the financial asset, recorded at inception or purchase. CECL will replace the loss model currently applicable to loans held for investment, HTM securities and other receivables carried at amortized cost, such as employee loans.

## **Table of Contents**

### **Management's Discussion and Analysis**

The update also eliminates the concept of other-than-temporary impairment for AFS securities. Impairments on AFS securities will be required to be recognized in earnings through an allowance when the fair value is less than amortized cost and a credit loss exists or the securities are expected to be sold before recovery of amortized cost.

For certain portfolios, we have determined that there are no expected credit losses, for example based on collateral arrangements for lending and financing transactions such as for Securities borrowed, Securities purchased under agreements to resell and certain other portfolios. Also, we have a zero loss expectation for certain financial assets based on the credit quality of the borrower or issuer such as U.S. government and agency securities.

We expect the following portfolios to be primarily impacted: employee loans, commercial real estate, corporate and residential real estate. The models we expect to use for these portfolios in the future are in the process of being tested. Based on preliminary analyses and estimates, we do not expect the increase in the allowance for credit losses resulting from the adoption of this standard will be significant to our financial statements. The ultimate impact will depend upon macroeconomic conditions, forecasts and our portfolios at the adoption date. This update is effective as of January 1, 2020.

### **Critical Accounting Policies**

Our financial statements are prepared in accordance with U.S. GAAP, which requires us to make estimates and assumptions (see Note 1 to the financial statements). We believe that of our significant accounting policies (see Note 2 to the financial statements in the 2018 Form 10-K and Note 2 to the financial statements), the fair value, goodwill and intangible assets, legal and regulatory contingencies and income taxes policies involve a higher degree of judgment and complexity. For a further discussion about our critical accounting policies, see Management's Discussion and Analysis of Financial Condition and Results of Operations Critical Accounting Policies in the 2018 Form 10-K.

### **Liquidity and Capital Resources**

Senior management, with oversight by the Asset/Liability Management Committee and the Board of Directors ( Board ), establishes and maintains our liquidity and capital policies. Through various risk and control committees, senior management reviews business performance relative to these policies, monitors the availability of alternative sources of financing, and oversees the liquidity, interest rate and currency sensitivity of our asset and liability position. Our Treasury department, Firm Risk Committee, Asset/Liability Management Committee, and other committees and control groups assist in evaluating, monitoring and controlling the impact that our business activities have on our balance sheet, liquidity and capital structure. Liquidity and capital matters are reported regularly to the Board and the Risk Committee of the Board.

### **Balance Sheet**

We monitor and evaluate the composition and size of our balance sheet on a regular basis. Our balance sheet management process includes quarterly planning, business-specific thresholds, monitoring of business-specific usage versus key performance metrics and new business impact assessments.

We establish balance sheet thresholds at the consolidated and business segment levels. We monitor balance sheet utilization and review variances resulting from business activity and market fluctuations. On a regular basis, we review current performance versus established thresholds and assess the need to re-allocate our balance sheet based on business unit needs. We also monitor key metrics, including asset and liability size and capital usage.

### Total Assets by Business Segment

<i>\$ in millions</i>	At March 31, 2019			Total
	IS	WM	IM	
<b>Assets</b>				
Cash and cash equivalents <sup>1</sup>	\$ 66,685	\$ 13,952	\$ 45	\$ 80,682
Trading assets at fair value	262,249	52	2,517	264,818
Investment securities	26,619	71,325		97,944
Securities purchased under agreements to resell	87,061	9,509		96,570
Securities borrowed	138,710	181		138,891
Customer and other receivables	36,314	15,732	621	52,667
Loans, net of allowance <sup>2</sup>	44,742	71,450	5	116,197
Other assets <sup>3</sup>	13,390	12,696	2,109	28,195
<b>Total assets</b>	<b>\$ 675,770</b>	<b>\$ 194,897</b>	<b>\$ 5,297</b>	<b>\$ 875,964</b>

**Table of Contents****Management's Discussion and Analysis**

<i>\$ in millions</i>	At December 31, 2018			Total
	IS	WM	IM	
<b>Assets</b>				
Cash and cash equivalents <sup>1</sup>	\$ 69,526	\$ 17,621	\$ 49	\$ 87,196
Trading assets at fair value	263,870	60	2,369	266,299
Investment securities	23,273	68,559		91,832
Securities purchased under agreements to resell	80,660	17,862		98,522
Securities borrowed	116,207	106		116,313
Customer and other receivables	35,777	16,865	656	53,298
Loans, net of allowance <sup>2</sup>	43,380	72,194	5	115,579
Other assets <sup>3</sup>	13,734	9,125	1,633	24,492
<b>Total assets</b>	<b>\$ 646,427</b>	<b>\$ 202,392</b>	<b>\$ 4,712</b>	<b>\$ 853,531</b>

IS Institutional Securities

WM Wealth Management

IM Investment Management

1. Cash and cash equivalents includes Cash and due from banks, Interest bearing deposits with banks and Restricted cash.
2. Amounts include loans held for investment (net of allowance) and loans held for sale but exclude loans at fair value, which are included in Trading assets in the balance sheets (see Note 7 to the financial statements).
3. Other assets primarily includes Goodwill, Intangible assets, premises, equipment, software, other investments, ROU assets related to leases and deferred tax assets.

A substantial portion of total assets consists of liquid marketable securities and short-term receivables arising principally from sales and trading activities in the Institutional Securities business segment. Total assets increased to \$876 billion at March 31, 2019 from \$854 billion at December 31, 2018, primarily due to higher Securities borrowed and Securities purchased under agreements to resell in the Institutional Securities business segment as a result of higher period-end client balances and Trading liabilities. These increases were partially offset by lower Securities purchased under agreements to resell within the Wealth Management business segment as a result of lower Deposits.

**Liquidity Risk Management Framework**

The core components of our Liquidity Risk Management Framework are the Required Liquidity Framework, Liquidity Stress Tests and the GLR, which support our target liquidity profile. For a further discussion about the Firm's Required Liquidity Framework and Liquidity Stress Tests, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Liquidity Risk Management Framework in the 2018 Form 10-K.

At March 31, 2019 and December 31, 2018, we maintained sufficient liquidity to meet current and contingent funding obligations as modeled in our Liquidity Stress Tests.

**Global Liquidity Reserve**

We maintain sufficient liquidity reserves to cover daily funding needs and to meet strategic liquidity targets sized by the Required Liquidity Framework and Liquidity Stress Tests. For a further discussion of our GLR, see Management's Discussion and Analysis of Financial Condition and Results of Operations—Liquidity and Capital Resources—Liquidity Risk Management Framework—Global Liquidity Reserve in the 2018 Form 10-K.

**GLR by Type of Investment**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Cash deposits with banks <sup>1</sup>	\$ 11,457	\$ 10,441
Cash deposits with central banks <sup>1</sup>	34,170	36,109
Unencumbered highly liquid securities:		
U.S. government obligations	105,425	119,138
U.S. agency and agency mortgage-backed securities	42,228	41,473
Non-U.S. sovereign obligations <sup>2</sup>	36,341	39,869
Other investment grade securities	3,527	2,705
<b>Total</b>	<b>\$ 233,148</b>	<b>\$ 249,735</b>

1. Included in Cash and due from banks and Interest bearing deposits with banks in the balance sheets.

2. Primarily composed of unencumbered Japanese, U.K., Brazilian and French government obligations.

**GLR Managed by Bank and Non-Bank Legal Entities**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018	Average Daily Balance Three Months Ended March 31, 2019
<b>Bank legal entities</b>			
Domestic	\$ 80,296	\$ 88,809	\$ 80,670
Foreign	5,492	4,896	4,672
Total Bank legal entities	85,788	93,705	85,342
<b>Non-Bank legal entities</b>			
Domestic:			
Parent Company	52,086	64,262	62,283
Non-Parent Company	40,807	40,936	39,980
Total Domestic	92,893	105,198	102,263
Foreign	54,467	50,832	54,820
Total Non-Bank legal entities	147,360	156,030	157,083
<b>Total</b>	<b>\$ 233,148</b>	<b>\$ 249,735</b>	<b>\$ 242,425</b>

**Regulatory Liquidity Framework****Liquidity Coverage Ratio**

Edgar Filing: MORGAN STANLEY - Form 10-Q

We and our U.S. Bank Subsidiaries are subject to LCR requirements, including a requirement to calculate each entity's LCR on each business day. The requirements are designed to ensure that banking organizations have sufficient HQLA to cover net cash outflows arising from significant stress over 30 calendar days, thus promoting the short-term resilience of the liquidity risk profile of banking organizations.

**Table of Contents****Management's Discussion and Analysis**

The regulatory definition of HQLA is substantially the same as our GLR. GLR includes cash placed at institutions other than central banks that is considered an inflow for LCR purposes. HQLA includes a portion of cash placed at central banks, certain unencumbered investment grade corporate bonds and publicly traded common equities, which do not meet the definition of our GLR.

Based on our daily calculations, we and our U.S. Bank Subsidiaries are compliant with the minimum required LCR of 100%.

**HQLA by Type of Asset and LCR**

<i>\$ in millions</i>	Average Daily Balance	
	Three Months Ended	
	March 31, 2019	December 31, 2018
<b>HQLA</b>		
Cash deposits with central banks	\$ 37,070	\$ 44,225
Securities <sup>1</sup>	155,713	150,792
<b>Total</b>	<b>\$ 192,783</b>	<b>\$ 195,017</b>
LCR	150%	145%

1. Primarily includes U.S. Treasuries, U.S. agency mortgage-backed securities, sovereign bonds and investment grade corporate bonds.

The increase in the LCR in the current quarter is due to a reduction in net outflows (i.e., the denominator of the ratio) primarily driven by higher cash inflows from Securities borrowed and Securities purchased under agreements to resell, and due to certain securities-for-securities transactions.

***Net Stable Funding Ratio***

The Basel Committee on Banking Supervision (Basel Committee) has previously finalized the NSFR framework. In May 2016, the U.S. banking agencies issued a proposal to implement the NSFR in the U.S. however, a final rule has not yet been issued in the U.S. For an additional discussion of the NSFR, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Liquidity Framework Net Stable Funding Ratio in the 2018 Form 10-K.

**Funding Management**



We manage our funding in a manner that reduces the risk of disruption to our operations. We pursue a strategy of diversification of secured and unsecured funding sources (by product, investor and region) and attempt to ensure that the tenor of our liabilities equals or exceeds the expected holding period of the assets being financed.

We fund our balance sheet on a global basis through diverse sources. These sources include our equity capital, borrowings, securities sold under agreements to repurchase, securities lending, deposits, letters of credit and lines of credit. We have active financing programs for both standard and structured products targeting global investors and currencies.

### *Secured Financing*

For a discussion of our secured financing activities, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Funding Management Secured Financing in the 2018 Form 10-K.

### **Collateralized Financing Transactions**

<i>\$ in millions</i>	<b>At March 31, 2019</b>	<b>At December 31, 2018</b>
Securities purchased under agreements to resell and Securities borrowed	<b>\$ 235,461</b>	\$ 214,835
Securities sold under agreements to repurchase and Securities loaned	<b>\$ 60,456</b>	\$ 61,667
Securities received as collateral <sup>1</sup>	<b>\$ 5,426</b>	\$ 7,668

<i>\$ in millions</i>	<b>Average Daily Balance Three Months Ended March 31, 2019</b>	<b>December 31, 2018</b>
Securities purchased under agreements to resell and Securities borrowed	<b>\$ 219,062</b>	\$ 213,974
Securities sold under agreements to repurchase and Securities loaned	<b>\$ 58,965</b>	\$ 57,677

1. Securities received as collateral are included in Trading assets in the balance sheets.

See Note 2 to the financial statements in the 2018 Form 10-K and Note 6 to the financial statements for more details on collateralized financing transactions.

In addition to the collateralized financing transactions shown in the previous table, we engage in financing transactions collateralized by customer-owned securities, which are segregated in accordance with regulatory requirements. Receivables under these financing transactions, primarily margin loans, are included in Customer and other receivables in the balance sheets, and payables under these financing transactions, primarily to prime brokerage customers, are included in Customer and other payables in the balance sheets. Our risk exposure on these transactions is mitigated by collateral maintenance policies that limit our credit exposure to customers and liquidity reserves held against this risk exposure.

### *Unsecured Financing*

Edgar Filing: MORGAN STANLEY - Form 10-Q

For a discussion of our unsecured financing activities, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Funding Management Unsecured Financing in the 2018 Form 10-K.

March 2019 Form 10-Q

16

**Table of Contents****Management's Discussion and Analysis****Deposits**

<i>\$ in millions</i>	At	
	March 31, 2019	At December 31, 2018
Savings and demand deposits:		
Brokerage sweep deposits <sup>1</sup>	\$ 127,678	\$ 141,255
Savings and other	15,523	13,642
Total Savings and demand		
deposits	143,201	154,897
Time deposits	36,530	32,923
<b>Total</b>	<b>\$ 179,731</b>	<b>\$ 187,820</b>

1. Amounts represent balances swept from client brokerage accounts.

Deposits are primarily sourced from our Wealth Management clients and are considered to have stable, low-cost funding characteristics. Total deposits at March 31, 2019 decreased compared with December 31, 2018, due to a decrease in Brokerage sweep deposits driven by redeployment of client cash partially offset by increases in Time deposits and Savings and other deposits driven by promotional offerings.

**Borrowings by Remaining Maturity at March 31, 2019<sup>1</sup>**

<i>\$ in millions</i>	Parent Company	Subsidiaries	Total
Original maturities of one year or less	\$	\$ 1,498	\$ 1,498
Original maturities greater than one year			
2019	\$ 14,187	\$ 3,937	\$ 18,124
2020	15,690	4,082	19,772
2021	21,256	3,936	25,192
2022	14,952	2,322	17,274
2023	11,624	2,642	14,266
Thereafter	75,346	19,219	94,565
Total	\$ 153,055	\$ 36,138	\$ 189,193
Total Borrowings	\$ 153,055	\$ 37,636	\$ 190,691
Maturities over next 12 months <sup>2</sup>			26,068

1. Original maturity in the table is generally based on contractual final maturity. For borrowings with put options, remaining maturity represents the earliest put date.
  2. Includes only borrowings with original maturities greater than one year.
- Borrowings of \$190,691 million as of March 31, 2019 were relatively unchanged compared with \$189,662 million at December 31, 2018.

We believe that accessing debt investors through multiple distribution channels helps provide consistent access to the unsecured markets. In addition, the issuance of borrowings with original maturities greater than one year allows us to reduce reliance on short-term credit sensitive instruments. Borrowings with original maturities greater than one year are generally managed to achieve staggered maturities, thereby mitigating refinancing risk, and to maximize investor diversification through sales to global institutional and retail clients across regions, currencies and product types.

The availability and cost of financing to us can vary depending on market conditions, the volume of certain trading and lending activities, our credit ratings and the overall availability of credit. We also engage in, and may continue to engage in, repurchases of our borrowings in the ordinary course of business.

For further information on Borrowings, see Note 10 to the financial statements.

### Credit Ratings

We rely on external sources to finance a significant portion of our daily operations. The cost and availability of financing generally are impacted by our credit ratings, among other things. In addition, our credit ratings can have an impact on certain trading revenues, particularly in those businesses where longer-term counterparty performance is a key consideration, such as OTC derivative transactions, including credit derivatives and interest rate swaps. When determining credit ratings, rating agencies consider company-specific factors, other industry factors such as regulatory or legislative changes and the macroeconomic environment, among other things.

Our credit ratings do not include any uplift from perceived government support from any rating agency given the significant progress of U.S. financial reform legislation and regulations. Some rating agencies have stated that they currently incorporate various degrees of credit rating uplift from non-governmental third-party sources of potential support.

### Parent Company and U.S. Bank Subsidiaries Senior Unsecured Ratings at April 30, 2019

	Parent Company		
	Short-Term Debt	Long-Term Debt	Rating Outlook
DBRS, Inc.	<b>R-1 (middle)</b>	<b>A (high)</b>	<b>Stable</b>
Fitch Ratings, Inc.	<b>F1</b>	<b>A</b>	<b>Stable</b>
Moody's Investors Service, Inc.	<b>P-2</b>	<b>A3</b>	<b>Stable</b>
Rating and Investment Information, Inc.	<b>a-1</b>	<b>A-</b>	<b>Positive</b>
S&P Global Ratings	<b>A-2</b>	<b>BBB+</b>	<b>Stable</b>

**Table of Contents****Management's Discussion and Analysis**

	Short-Term Debt	MSBNA Long-Term Debt	Rating Outlook
Fitch Ratings, Inc.	<b>F1</b>	<b>A+</b>	<b>Stable</b>
Moody's Investors Service, Inc.	<b>P-1</b>	<b>A1</b>	<b>Stable</b>
S&P Global Ratings	<b>A-1</b>	<b>A+</b>	<b>Stable</b>

	Short-Term Debt	MSPBNA Long-Term Debt	Rating Outlook
Moody's Investors Service, Inc.	<b>P-1</b>	<b>A1</b>	<b>Stable</b>
S&P Global Ratings	<b>A-1</b>	<b>A+</b>	<b>Stable</b>

***Incremental Collateral or Terminating Payments***

In connection with certain OTC derivatives and certain other agreements where we are a liquidity provider to certain financing vehicles associated with the Institutional Securities business segment, we may be required to provide additional collateral, immediately settle any outstanding liability balances with certain counterparties or pledge additional collateral to certain clearing organizations in the event of a future credit rating downgrade irrespective of whether we are in a net asset or net liability position. See Note 4 to the financial statements for additional information on OTC derivatives that contain such contingent features.

While certain aspects of a credit rating downgrade are quantifiable pursuant to contractual provisions, the impact it would have on our business and results of operations in future periods is inherently uncertain and would depend on a number of interrelated factors, including, among other things, the magnitude of the downgrade, the rating relative to peers, the rating assigned by the relevant agency pre-downgrade, individual client behavior and future mitigating actions we might take. The liquidity impact of additional collateral requirements is included in our Liquidity Stress Tests.

**Capital Management**

We view capital as an important source of financial strength and actively manage our consolidated capital position based upon, among other things, business opportunities, risks, capital availability and rates of return together with internal capital policies, regulatory requirements and rating agency guidelines. In the future, we may expand or contract our capital base to address the changing needs of our businesses.

**Common Stock Repurchases**

*in millions, except for per share data*

Three Months Ended March 31,  
**2019** 2018

Repurchases	\$	1,180	\$	1,250
Number of shares		28		22
Average price per share	\$	42.19	\$	55.98

From time to time we repurchase our outstanding common stock as part of our Share Repurchase Program. A portion of common stock repurchases in the current quarter was conducted under a sales plan with Mitsubishi UFJ Financial Group, Inc. ( MUFG ), whereby MUFG sold shares of the Firm's common stock to us, as part of our Share Repurchase Program. The sales plan is only intended to maintain MUFG's ownership percentage below 24.9% in order to comply with MUFG's passivity commitments to the Board of Governors of the Federal Reserve System ( Federal Reserve ) and has no impact on the strategic alliance between MUFG and us, including our joint ventures in Japan. For a description of our Share Repurchase Program, see Unregistered Sales of Equity Securities and Use of Proceeds.

For a description of our capital plan, see Liquidity and Capital Resources Regulatory Requirements Capital Plans and Stress Tests.

### Common Stock Dividend Announcement

Announcement date	April 17, 2019
Amount per share	\$0.30
Date to be paid	May 15, 2019
Shareholders of record as of	April 30, 2019

### Preferred Stock Dividend Announcement

Announcement date	March 15, 2019
Date paid	April 15, 2019
Shareholders of record as of	March 29, 2019

For additional information on common and preferred stock, see Note 14 to the financial statements.

### Off-Balance Sheet Arrangements and Contractual Obligations

#### *Off-Balance Sheet Arrangements*

We enter into various off-balance sheet arrangements, including through unconsolidated SPEs and lending-related financial instruments (e.g., guarantees and commitments), primarily in connection with the Institutional Securities and Investment Management business segments.

We utilize SPEs primarily in connection with securitization activities. For information on our securitization activities, see Note 12 to the financial statements.

For information on our commitments, obligations under certain guarantee arrangements and indemnities, see Note 11 to the financial statements. For further information on our lending commitments, see Quantitative and Qualitative Disclosures about Risk Credit Risk Loans and Lending Commitments.

## **Table of Contents**

### **Management's Discussion and Analysis**

#### ***Contractual Obligations***

For a discussion about our contractual obligations, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Contractual Obligations in the 2018 Form 10-K.

### **Regulatory Requirements**

#### **Regulatory Capital Framework**

We are an FHC under the Bank Holding Company Act of 1956, as amended ( BHC Act ), and are subject to the regulation and oversight of the Federal Reserve. The Federal Reserve establishes capital requirements for us, including well-capitalized standards, and evaluates our compliance with such capital requirements. The OCC establishes similar capital requirements and standards for our U.S. Bank Subsidiaries. For us to remain an FHC, we must remain well-capitalized in accordance with standards established by the Federal Reserve and our U.S. Bank Subsidiaries must remain well-capitalized in accordance with standards established by the OCC. For additional information on regulatory capital requirements for our U.S. Bank Subsidiaries, see Note 13 to the financial statements.

Regulatory capital requirements established by the Federal Reserve are largely based on the Basel III capital standards established by the Basel Committee and also implement certain provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act ( Dodd-Frank Act ).

#### **Regulatory Capital Requirements**

We are required to maintain minimum risk-based capital, leverage-based capital and total loss-absorbing capacity ( TLAC ) ratios. For more information, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Capital Requirements in the 2018 Form 10-K. For additional information on TLAC, see Total Loss-Absorbing Capacity herein.

*Risk-Based Regulatory Capital.* Minimum risk-based capital ratio requirements apply to Common Equity Tier 1 capital, Tier 1 capital and Total capital (which includes Tier 2 capital). Certain adjustments to and deductions from capital are required for purposes of determining these ratios, such as goodwill, intangible assets, certain deferred tax assets, other amounts in AOCI and investments in the capital instruments of unconsolidated financial institutions.

In addition to the minimum risk-based capital ratio requirements, we are subject to the following buffers in 2019:

A greater than 2.5% Common Equity Tier 1 capital conservation buffer;

The Common Equity Tier 1 G-SIB capital surcharge, currently at 3%; and

Up to a 2.5% Common Equity Tier 1 CCyB, currently set by U.S. banking agencies at zero. In 2018, each of these buffers was 75% of the fully phased-in 2019 requirement noted above. Failure to maintain the buffers would result in restrictions on our ability to make capital distributions, including the payment of dividends and the repurchase of stock, and to pay discretionary bonuses to executive officers. For a further discussion of the G-SIB capital surcharge, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Requirements G-SIB Capital Surcharge in the 2018 Form 10-K.

Our risk-based capital ratios for purposes of determining regulatory compliance are the lower of the capital ratios computed under (i) the standardized approaches for calculating credit risk and market risk RWA ( Standardized Approach ) and (ii) the applicable advanced approaches for calculating credit risk, market risk and operational risk RWA ( Advanced Approach ). The credit risk RWA calculations between the two approaches differ in that the Standardized Approach requires calculation of RWA using prescribed risk weights, whereas the Advanced Approach utilizes models to calculate exposure amounts and risk weights. At March 31, 2019 and December 31, 2018, our ratios for determining regulatory compliance are based on the Standardized Approach rules.

*Leverage-Based Regulatory Capital.* Minimum leverage-based capital requirements include a Tier 1 leverage ratio and an SLR. We are required to maintain a Tier 1 SLR of 5%, inclusive of an enhanced SLR capital buffer of at least 2% in order to avoid potential limitations on capital distributions, including dividends and stock repurchases, and discretionary bonus payments to executive officers.



**Table of Contents****Management's Discussion and Analysis****Regulatory Capital Ratios**

<i>\$ in millions</i>	Required Ratio <sup>1</sup>	At March 31, 2019	
		Standardized	Advanced
<b>Risk-based capital</b>			
Common Equity Tier 1 capital		\$ 63,344	\$ 63,344
Tier 1 capital		71,910	71,910
Total capital		81,570	81,284
Total RWA		378,420	366,353
Common Equity Tier 1 capital ratio	10.0%	16.7%	17.3%
Tier 1 capital ratio	11.5%	19.0%	19.6%
Total capital ratio	13.5%	21.6%	22.2%
<b>Leverage-based capital</b>			
Adjusted average assets <sup>2</sup>		\$ 855,192	N/A
Tier 1 leverage ratio	4.0%	8.4%	N/A
Supplementary leverage exposure <sup>3</sup>		N/A	\$ 1,104,264
SLR	5.0%	N/A	6.5%

<i>\$ in millions</i>	Required Ratio <sup>1</sup>	At December 31, 2018	
		Standardized	Advanced
<b>Risk-based capital</b>			
Common Equity Tier 1 capital		\$ 62,086	\$ 62,086
Tier 1 capital		70,619	70,619
Total capital		80,052	79,814
Total RWA		367,309	363,054
Common Equity Tier 1 capital ratio	8.6%	16.9%	17.1%
Tier 1 capital ratio	10.1%	19.2%	19.5%
Total capital ratio	12.1%	21.8%	22.0%
<b>Leverage-based capital</b>			
Adjusted average assets <sup>2</sup>		\$ 843,074	N/A
Tier 1 leverage ratio	4.0%	8.4%	N/A
Supplementary leverage exposure <sup>3</sup>		N/A	\$ 1,092,672
SLR	5.0%	N/A	6.5%

1. Required ratios are inclusive of any buffers applicable as of the date presented. For 2018, the minimum required regulatory capital ratios for risk-based capital are under the transitional rules.

2. Adjusted average assets represents the denominator of the Tier 1 leverage ratio and is composed of the average daily balance of consolidated on-balance sheet assets under U.S. GAAP during the quarters ended March 31, 2019 and December 31, 2018, adjusted for disallowed goodwill, intangible assets, certain deferred tax assets, certain investments in the capital instruments of unconsolidated financial institutions and other capital deductions.
3. Supplementary leverage exposure is the sum of Adjusted average assets used in the Tier 1 leverage ratio and other adjustments, primarily (i) potential future exposure for derivative exposures, gross-up for cash collateral netting where qualifying criteria are not met, and the effective notional principal amount of sold credit protection offset by qualifying purchased credit protection; (ii) the counterparty credit risk for repo-style transactions; and (iii) the credit equivalent amount for off-balance sheet exposures.

### Regulatory Capital

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018	Change
<b>Common Equity Tier 1 capital</b>			
Common stock and surplus	\$ 8,616	\$ 9,843	\$ (1,227)
Retained earnings	66,061	64,175	1,886
AOCI	(2,473)	(2,292)	(181)
Regulatory adjustments and deductions:			
Net goodwill	(6,655)	(6,661)	6
Net intangible assets (other than goodwill and mortgage servicing assets)	(2,084)	(2,158)	74
Other adjustments and deductions <sup>1</sup>	(121)	(821)	700
<b>Total Common Equity Tier 1 capital</b>	<b>\$ 63,344</b>	<b>\$ 62,086</b>	<b>\$ 1,258</b>
<b>Additional Tier 1 capital</b>			
Preferred stock	\$ 8,520	\$ 8,520	\$
Noncontrolling interests	475	454	21
Additional Tier 1 capital	\$ 8,995	\$ 8,974	\$ 21
Deduction for investments in covered funds	(429)	(441)	12
<b>Total Tier 1 capital</b>	<b>\$ 71,910</b>	<b>\$ 70,619</b>	<b>\$ 1,291</b>
<b>Standardized Tier 2 capital</b>			
Subordinated debt	\$ 9,087	\$ 8,923	\$ 164
Noncontrolling interests	112	107	5
Eligible allowance for credit losses	470	440	30
Other adjustments and deductions	(9)	(37)	28
<b>Total Standardized Tier 2 capital</b>	<b>\$ 9,660</b>	<b>\$ 9,433</b>	<b>\$ 227</b>
<b>Total Standardized capital</b>	<b>\$ 81,570</b>	<b>\$ 80,052</b>	<b>\$ 1,518</b>
<b>Advanced Tier 2 capital</b>			
Subordinated debt	\$ 9,087	\$ 8,923	\$ 164
Noncontrolling interests	112	107	5
Eligible credit reserves	184	202	(18)
Other adjustments and deductions	(9)	(37)	28
<b>Total Advanced Tier 2 capital</b>	<b>\$ 9,374</b>	<b>\$ 9,195</b>	<b>\$ 179</b>
<b>Total Advanced capital</b>	<b>\$ 81,284</b>	<b>\$ 79,814</b>	<b>\$ 1,470</b>

1. Other adjustments and deductions used in the calculation of Common Equity Tier 1 capital include credit spread premium over risk-free rate for derivative liabilities, net deferred tax assets, net after-tax DVA and other net after-tax adjustments related to AOCI.

March 2019 Form 10-Q

20

**Table of Contents****Management's Discussion and Analysis****RWA Rollforward**

<i>\$ in millions</i>	At March 31, 2019 <sup>1</sup>	
	Standardized	Advanced
<b>Credit risk RWA</b>		
Balance at December 31, 2018	\$ 305,531	\$ 190,595
Change related to the following items:		
Derivatives	2,095	7,246
Securities financing transactions	8,269	2,353
Securitized	358	402
Investment securities	1,503	2,616
Commitments, guarantees and loans	2,067	1,648
Cash	(610)	(361)
Equity investments	369	390
Other credit risk <sup>2</sup>	4,105	4,263
Total change in credit risk RWA	\$ 18,156	\$ 18,557
<b>Balance at March 31, 2019</b>	<b>\$ 323,687</b>	<b>\$ 209,152</b>
<b>Market risk RWA</b>		
Balance at December 31, 2018	\$ 61,778	\$ 61,857
Change related to the following items:		
Regulatory VaR	(610)	(610)
Regulatory stressed VaR	(2,934)	(2,934)
Incremental risk charge	(4,980)	(4,980)
Comprehensive risk measure	96	55
Specific risk:		
Non-securitized	1,141	1,141
Securitized	242	242
Total change in market risk RWA	\$ (7,045)	\$ (7,086)
<b>Balance at March 31, 2019</b>	<b>\$ 54,733</b>	<b>\$ 54,771</b>
<b>Operational risk RWA</b>		
Balance at December 31, 2018	N/A	\$ 110,602
Change in operational risk RWA	N/A	(8,172)
<b>Balance at March 31, 2019</b>	<b>N/A</b>	<b>\$ 102,430</b>
<b>Total RWA</b>	<b>\$ 378,420</b>	<b>\$ 366,353</b>

Regulatory VaR VaR for regulatory capital requirements

1. The RWA for each category reflects both on- and off-balance sheet exposures, where appropriate.

2. Amount reflects assets not in a defined category, non-material portfolios of exposures and unsettled transactions, as applicable.

Credit risk RWA increased in the current quarter under the Standardized and Advanced Approaches primarily due to increased exposures in Securities financing transactions and Derivatives, and an increase in Other credit risk mainly driven by the Firm's adoption of the *Leases* accounting update on January 1, 2019. Under the Advanced Approach, the increased derivatives exposure also led to increased RWA related to CVA.

Market risk RWA decreased in the current quarter under the Standardized and Advanced Approaches primarily due to a decrease in the Incremental risk charge driven by reduced exposures and improved hedging in credit products.

The decrease in operational risk RWA under the Advanced Approach in the current quarter reflects a continued reduction in the magnitude of internal losses utilized in the operational risk capital model related to litigation.

*Total Loss-Absorbing Capacity.* The Federal Reserve has established external TLAC, long-term debt ( LTD ) and clean holding company requirements for top-tier BHCs of U.S. G-SIBs ( covered BHCs ), including the Parent Company. These requirements include various definitions and restrictions, such as requiring eligible LTD to be issued by the covered BHC and be unsecured, have a maturity of one year or more from the date of issuance and not have certain derivative-linked features typically associated with certain types of structured notes. A covered BHC is required to maintain minimum levels of external TLAC and eligible LTD, as well as certain TLAC buffer requirements. Failure to maintain the TLAC buffers would result in restrictions on capital distributions and discretionary bonus payments to executive officers.

## Required and Actual TLAC and Eligible LTD Ratios

<i>\$ in millions</i>	At March 31, 2019	
	Required Ratio <sup>1</sup>	Actual Amount/Ratio
<b>Total Loss-Absorbing Capacity</b>		
External TLAC <sup>2</sup>		\$ 198,965
External TLAC as a % of RWA	21.5%	52.6%
External TLAC as a % of leverage exposure	9.5%	18.0%
Eligible LTD <sup>3</sup>		\$ 120,983
Eligible LTD as a % of RWA	9.0%	32.0%
Eligible LTD as a % of leverage exposure	4.5%	11.0%

1. Required ratios are inclusive of any buffers applicable as of the date presented.

2. External TLAC consists of Common Equity Tier 1 capital and Additional Tier 1 capital (each excluding any noncontrolling minority interests), as well as eligible LTD.

3. Consists of TLAC-eligible LTD reduced by 50% for amounts of unpaid principal due to be paid in more than one year but less than two years from March 31, 2019.

For a further discussion of TLAC and related requirements, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Requirements Regulatory Capital Requirements in the 2018 Form 10-K.

## Capital Plans and Stress Tests

Edgar Filing: MORGAN STANLEY - Form 10-Q

Pursuant to the Dodd-Frank Act, the Federal Reserve has adopted capital planning and stress test requirements for large BHCs, including us, which form part of the Federal Reserve's annual CCAR framework.

We submitted our 2019 Capital Plan ( Capital Plan ) and company-run stress test results to the Federal Reserve on April 5, 2019. We expect that the Federal Reserve will provide its response to our 2019 Capital Plan by June 30, 2019. There could be a range of potential outcomes to our Capital Plan whereby the Federal Reserve could object to, or otherwise require us to modify, such plan. See Risk Factors

**Table of Contents****Management's Discussion and Analysis**

in the 2018 Form 10-K. The Federal Reserve is expected to publish summary results of the CCAR and Dodd-Frank Act supervisory stress tests of each large BHC, including us, by June 30, 2019. We are required to disclose a summary of the results of our company-run stress tests within 15 days of the date the Federal Reserve discloses the results of the supervisory stress tests. In addition, we must submit the results of our mid-cycle company-run stress test to the Federal Reserve by October 5, 2019 and disclose a summary of the results within 30 days of the submission date.

For a further discussion of our capital plans and stress tests, see Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Requirements Capital Plans and Stress Tests in the 2018 Form 10-K.

**Attribution of Average Common Equity According to the Required Capital Framework**

Our required capital ( Required Capital ) estimation is based on the Required Capital framework, an internal capital adequacy measure. Common equity attribution to the business segments is based on capital usage calculated under the Required Capital framework, as well as each business segment's relative contribution to our total Required Capital.

The Required Capital framework is a risk-based and leverage use-of-capital measure, which is compared with our regulatory capital to ensure that we maintain an amount of going concern capital after absorbing potential losses from stress events, where applicable, at a point in time. The amount of capital allocated to the business segments is generally set at the beginning of each year and remains fixed throughout the year until the next annual reset unless a significant business change occurs (*e.g.*, acquisition or disposition). We define the difference between our total average common equity and the sum of the average common equity amounts allocated to our business segments as Parent common equity. We generally hold Parent common equity for prospective regulatory requirements, organic growth, acquisitions and other capital needs.

The Required Capital framework is expected to evolve over time in response to changes in the business and regulatory environment, for example, to incorporate changes in stress testing or enhancements to modeling techniques. We will continue to evaluate the framework with respect to the impact of future regulatory requirements, as appropriate.

**Average Common Equity Attribution<sup>1</sup>**

<i>\$ in billions</i>	Three Months Ended	
	March 31,	
	2019	2018
Institutional Securities	\$ 40.4	\$ 40.8
Wealth Management	18.2	16.8
Investment Management	2.5	2.6
Parent	10.5	8.8
<b>Total</b>	<b>\$ 71.6</b>	<b>\$ 69.0</b>

1. Average common equity is a non-GAAP financial measure. See Selected Non-GAAP Financial Information herein.  
**Resolution and Recovery Planning**

Pursuant to the Dodd-Frank Act, we are required to periodically submit to the Federal Reserve and the FDIC a resolution plan that describes our strategy for a rapid and orderly resolution under the U.S. Bankruptcy Code in the event of our material financial distress or failure.

Our preferred resolution strategy is an SPOE strategy. Currently, upon the occurrence of a resolution scenario, the Parent Company would be obligated, under a support agreement with its material entities, to contribute or loan on a subordinated basis all of its contributable material assets, other than shares in subsidiaries of the Parent Company and certain intercompany receivables, to provide capital and liquidity, as applicable, to our material entities.

The obligations of the Parent Company under the existing support agreement are in most cases secured on a senior basis by the assets of the Parent Company (other than shares in subsidiaries of the Parent Company). As a result, claims of our material entities against the assets of the Parent Company (other than shares in subsidiaries of the Parent Company) are effectively senior to unsecured obligations of the Parent Company.

In further development of our SPOE strategy, we have created a wholly owned, direct subsidiary of the Parent Company, MS Holdings LLC (the Funding IHC), to serve as a resolution funding vehicle. We expect that, prior to the submission of our 2019 resolution plan by July 1, 2019, the Parent Company will contribute certain of its assets to the Funding IHC and enter into an updated support agreement with the Funding IHC as well as certain other subsidiaries to facilitate the execution of our SPOE strategy. The updated agreement will



## **Table of Contents**

### **Management's Discussion and Analysis**

obligate the Parent Company to transfer capital and liquidity to the Funding IHC, and that the Parent Company and/or the Funding IHC will recapitalize and provide liquidity to material entities in the event of our material financial distress or failure.

For more information about resolution and recovery planning requirements and our activities in these areas, including the implications of such activities in a resolution scenario, see *Business Supervision and Regulation Financial Holding Company Resolution and Recovery Planning* and *Risk Factors Legal, Regulatory and Compliance Risk* in the 2018 Form 10-K.

### **Regulatory Developments**

#### ***Proposed Revisions to the Regulatory Capital Treatment for Investments in Certain Unsecured Debt Instruments Issued by G-SIBs***

The Federal Reserve, the OCC and the FDIC have issued a proposed rule that would, among other things, modify the regulatory capital framework for Advanced Approach banking organizations, including us. Such firms would be required to make certain deductions from regulatory capital for their investments in certain unsecured debt instruments (including eligible LTD in the TLAC framework) issued by the Parent Company and other G-SIBs.

#### ***Proposed Revisions to Resolution Planning Requirements***

The Federal Reserve and the FDIC have issued a proposed rule that would change our resolution planning obligations under the Dodd-Frank Act. The proposed rule would require us to file resolution plans once every two years and would allow us to alternate between submitting a full, detailed resolution plan and a streamlined, targeted resolution plan. The proposed rule also makes certain changes to the information required to be included in our resolution plan.

For a discussion of other regulatory developments, see *Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Requirements Regulatory Developments* in the 2018 Form 10-K.

### **Other Matters**

#### ***U.K. Withdrawal from the E.U.***

Following the U.K. electorate vote to leave the E.U., the U.K. invoked Article 50 of the Lisbon Treaty on March 29, 2017, which triggered a two-year period during which the U.K. government negotiated a form of withdrawal agreement with the E.U. The U.K. government and the E.U. have agreed to delay the U.K.'s scheduled withdrawal from the E.U. until

October 31, 2019. However, if the U.K. does not hold elections to the European Parliament in accordance with applicable E.U. law and ratify the withdrawal agreement by the applicable deadlines, the U.K.'s withdrawal date would become June 1, 2019. Absent any further changes to this time schedule, the U.K. is expected to leave the E.U. by

October 31, 2019 at the latest. Discussions are ongoing within the U.K. Parliament on the negotiated withdrawal agreement and the alternatives to it, and between the U.K. government and the E.U.

For more information on the U.K.'s withdrawal from the E.U., our related preparations and the potential impact on our operations, see [Quantitative and Qualitative Disclosures about Risk Country Risk](#) herein, and see [Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Requirements Other Matters](#) and [Risk Factors International Risk](#) in the 2018 Form 10-K.

***Expected Replacement of London Interbank Offered Rate and Replacement or Reform of Other Interest Rates***

Central banks around the world, including the Federal Reserve, have commissioned working groups of market participants and official sector representatives with the goal of finding suitable replacements for LIBOR and replacements or reforms of other interest rate benchmarks, such as EURIBOR and EONIA (collectively, the [IBORs](#)).

For a further discussion of the expected replacement of the IBORs and/or reform of interest rate benchmarks, and the related risks and our transition plan, see [Management's Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources Regulatory Requirements Regulatory Developments](#) and [Risk Factors Legal Regulatory and Compliance Risk](#), respectively, in the 2018 Form 10-K.

**Table of Contents**

**Quantitative and Qualitative Disclosures about Risk**

Management believes effective risk management is vital to the success of our business activities. For a discussion of our risk management functions, see [Quantitative and Qualitative Disclosures about Risk Risk Management](#) in the 2018 Form 10-K.

**Market Risk**

Market risk refers to the risk that a change in the level of one or more market prices, rates, indices, volatilities, correlations or other market factors, such as market liquidity, will result in losses for a position or portfolio. Generally, we incur market risk as a result of trading, investing and client facilitation activities, principally within the Institutional Securities business segment where the substantial majority of our VaR for market risk exposures is generated. In addition, we incur market risk within the Wealth Management and Investment Management business segments. The Wealth Management business segment primarily incurs non-trading market risk from lending and deposit-taking activities. The Investment Management business segment primarily incurs non-trading market risk from capital investments in alternative and other funds. For a further discussion of market risk, see [Quantitative and Qualitative Disclosures about Risk Market Risk](#) in the 2018 Form 10-K.

***Trading Risks***

*Value-at-Risk.* The statistical technique known as VaR is one of the tools we use to measure, monitor and review the market risk exposures of our trading portfolios. The Market Risk Department calculates and distributes daily VaR-based risk measures to various levels of management.

For information regarding our VaR methodology, assumptions and limitations, see [Quantitative and Qualitative Disclosures about Risk Market Risk Trading Risks Value-at-Risk](#) in the 2018 Form 10-K.

We utilize the same VaR model for risk management purposes and for regulatory capital calculations. Our regulators have approved our VaR model for use in regulatory calculations.

The portfolio of positions used for our VaR for risk management purposes ( *Management VaR* ) differs from that used for regulatory capital requirements ( *Regulatory VaR* ). Management VaR contains certain positions that are excluded from Regulatory VaR. Examples include CVA and related hedges, as well as loans that are carried at fair value and associated hedges.

The following table presents the Management VaR for the Trading portfolio. To further enhance the transparency of traded market risk, the Credit Portfolio VaR has been disclosed as a separate category from the Primary Risk Categories. The Credit Portfolio includes counterparty CVA

and related hedges, as well as loans that are carried at fair value and associated hedges.

**95%/One-Day Management VaR**

	Three Months Ended March 31, 2019			
	Period			
<i>\$ in millions</i>	End	Average	High <sup>2</sup>	Low <sup>2</sup>
Interest rate and credit spread	\$ 32	\$ 32	\$ 39	\$ 26
Equity price	15	16	19	12
Foreign exchange rate	15	14	16	11
Commodity price	9	10	12	9
Less: Diversification benefit <sup>1</sup>	(32)	(32)	N/A	N/A
Primary Risk Categories	\$ 39	\$ 40	\$ 48	\$ 36
Credit Portfolio	17	16	18	14
Less: Diversification benefit <sup>1</sup>	(12)	(10)	N/A	N/A
Total Management VaR	\$ 44	\$ 46	\$ 55	\$ 42

	Three Months Ended December 31, 2018			
	Period			
<i>\$ in millions</i>	End	Average	High <sup>2</sup>	Low <sup>2</sup>
Interest rate and credit spread	\$ 38	\$ 36	\$ 51	\$ 25
Equity price	14	13	18	12
Foreign exchange rate	13	13	16	11
Commodity price	13	12	18	7
Less: Diversification benefit <sup>1</sup>	(27)	(30)	N/A	N/A
Primary Risk Categories	\$ 51	\$ 44	\$ 62	\$ 34
Credit Portfolio	15	13	16	11
Less: Diversification benefit <sup>1</sup>	(9)	(8)	N/A	N/A
Total Management VaR	\$ 57	\$ 49	\$ 67	\$ 39

1. Diversification benefit equals the difference between the total Management VaR and the sum of the component VaRs. This benefit arises because the simulated one-day losses for each of the components occur on different days; similar diversification benefits also are taken into account within each component.
2. The high and low VaR values for the total Management VaR and each of the component VaRs might have occurred on different days during the quarter, and therefore, the diversification benefit is not an applicable measure. Average total Management VaR and average Management VaR for the Primary Risk Categories decreased from the three-months ended December 31, 2018, primarily as a result of reduced interest rate and credit spread exposure in the Fixed Income Division of the Institutional Securities business segment.

### ***Distribution of VaR Statistics and Net Revenues***

One method of evaluating the reasonableness of our VaR model as a measure of our potential volatility of net revenues is to compare VaR with corresponding actual trading revenues. Assuming no intraday trading, for a 95%/one-day VaR, the expected number of times that trading losses should exceed VaR during the year is 13, and, in general, if trading losses were to exceed VaR more than 21 times in a year, the adequacy of the VaR model would be questioned.



**Table of Contents****Risk Disclosures**

We evaluate the reasonableness of our VaR model by comparing the potential declines in portfolio values generated by the model with corresponding actual trading results for the Firm, as well as individual business units. For days where losses exceed the VaR statistic, we examine the drivers of trading losses to evaluate the VaR model's accuracy relative to realized trading results. There were no days with trading losses in the current quarter.

**Daily 95%/One-Day Total Management VaR for the Current Quarter<sup>1</sup>**

*(\$ in millions)*

1. The average 95%/one-day total Management VaR for the current quarter was \$46 million.

**Daily Net Trading Revenues for the Current Quarter**

*(\$ in millions)*

The previous histogram shows the distribution for the current quarter of daily net trading revenues. Daily net trading revenues include profits and losses from Interest rate and credit spread, Equity price, Foreign exchange rate, Commodity price, and Credit Portfolio positions and intraday trading activities for our trading businesses. Certain items such as fees, commissions and net

interest income are excluded from daily net trading revenues and the VaR model. Revenues required for Regulatory VaR backtesting further exclude intraday trading.

**Non-Trading Risks**

We believe that sensitivity analysis is an appropriate representation of our non-trading risks. The following sensitivity analyses cover substantially all of the non-trading risk in our portfolio.

**Credit Spread Risk Sensitivity<sup>1</sup>**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Derivatives	\$ 6	\$ 6
Funding liabilities <sup>2</sup>	37	34

1. Amounts represent the potential gain for each 1 bps widening of our credit spread.
2. Relates to structured note liabilities carried at fair value.

**U.S. Bank Subsidiaries Net Interest Income Sensitivity Analysis**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
<b>Basis point change</b>		
+200	\$ 484	\$ 340
+100	274	182
- 100	(619)	(428)

The previous table presents an analysis of selected instantaneous upward and downward parallel interest rate shocks on net interest income over the next 12 months for our U.S. Bank Subsidiaries. These shocks are applied to our 12-month forecast for our U.S. Bank Subsidiaries, which incorporates market expectations of interest rates and our forecasted business activity.

We do not manage to any single rate scenario but rather manage net interest income in our U.S. Bank Subsidiaries to optimize across a range of possible outcomes, including non-parallel rate change scenarios. The sensitivity analysis assumes that we take no action in response to these scenarios, assumes there are no changes in other macroeconomic variables normally correlated with changes in interest rates, and includes subjective assumptions regarding customer and market re-pricing behavior and other factors. The change in sensitivity to interest rates between March 31, 2019 and December 31, 2018 is primarily driven by a flatter yield curve, expectations of deposit pricing and changes in our asset-liability profile.

**Table of Contents****Risk Disclosures****Investments Sensitivity, Including Related Carried Interest**

<i>\$ in millions</i>	Loss from 10% Decline	
	At <b>March 31,</b> <b>2019</b>	At December 31, 2018
Investments related to Investment Management activities	<b>\$ 334</b>	\$ 298
Other investments:		
MUMSS	<b>164</b>	165
Other Firm investments	<b>187</b>	179
MUMSS Mitsubishi UFJ Morgan Stanley Securities Co., Ltd.		

We have exposure to public and private companies through direct investments, as well as through funds that invest in these assets. These investments are predominantly equity positions with long investment horizons, a portion of which is for business facilitation purposes. The market risk related to these investments is measured by estimating the potential reduction in net income associated with a 10% decline in investment values and related impact on carried interest. The change in investments sensitivity related to Investment Management activities between December 31, 2018 and March 31, 2019 is primarily the result of higher carried interest.

***Equity Market Sensitivity***

In the Wealth Management and Investment Management business segments, certain fee-based revenue streams are driven by the value of clients' equity holdings. The overall level of revenues for these streams also depends on multiple additional factors that include, but are not limited to, the level and duration of the equity market increase or decline, price volatility, the geographic and industry mix of client assets, the rate and magnitude of client investments and redemptions, and the impact of such market increase or decline and price volatility on client behavior. Therefore, overall revenues do not correlate completely with changes in the equity markets.

**Credit Risk**

Credit risk refers to the risk of loss arising when a borrower, counterparty or issuer does not meet its financial obligations to us. We primarily incur credit risk exposure to institutions and individuals through our Institutional Securities and Wealth Management business segments. For a further discussion of our credit risks, see Quantitative and Qualitative Disclosures about Risk - Credit Risk in the 2018 Form 10-K.

**Loans and Lending Commitments**



<i>\$ in millions</i>	At March 31, 2019			
	IS	WM	IM <sup>1</sup>	Total
Corporate	\$ 22,283	\$ 16,136	\$ 5	\$ 38,424
Consumer		27,300		27,300
Residential real estate		28,037		28,037
Commercial real estate	7,764			7,764
<b>Loans held for investment, gross of allowance</b>	<b>30,047</b>	<b>71,473</b>	<b>5</b>	<b>101,525</b>
<b>Allowance for loan losses</b>	<b>(215)</b>	<b>(44)</b>		<b>(259)</b>
<b>Loans held for investment, net of allowance</b>	<b>29,832</b>	<b>71,429</b>	<b>5</b>	<b>101,266</b>
Corporate	12,469			12,469
Residential real estate	1	21		22
Commercial real estate	2,440			2,440
<b>Loans held for sale</b>	<b>14,910</b>	<b>21</b>		<b>14,931</b>
Corporate	8,286		21	8,307
Residential real estate	1,282			1,282
Commercial real estate	1,766			1,766
<b>Loans held at fair value</b>	<b>11,334</b>		<b>21</b>	<b>11,355</b>
<b>Total loans</b>	<b>56,076</b>	<b>71,450</b>	<b>26</b>	<b>127,552</b>
<b>Lending commitments<sup>2</sup></b>	<b>102,174</b>	<b>12,147</b>		<b>114,321</b>
<b>Total loans and lending commitments<sup>2</sup></b>	<b>\$ 158,250</b>	<b>\$ 83,597</b>	<b>\$ 26</b>	<b>\$ 241,873</b>

<i>\$ in millions</i>	At December 31, 2018			
	IS	WM	IM <sup>1</sup>	Total
Corporate	\$ 20,020	\$ 16,884	\$ 5	\$ 36,909
Consumer		27,868		27,868
Residential real estate		27,466		27,466
Commercial real estate <sup>3</sup>	7,810			7,810
<b>Loans held for investment, gross of allowance</b>	<b>27,830</b>	<b>72,218</b>	<b>5</b>	<b>100,053</b>
<b>Allowance for loan losses</b>	<b>(193)</b>	<b>(45)</b>		<b>(238)</b>
<b>Loans held for investment, net of allowance</b>	<b>27,637</b>	<b>72,173</b>	<b>5</b>	<b>99,815</b>
Corporate	13,886			13,886
Residential real estate	1	21		22
Commercial real estate <sup>3</sup>	1,856			1,856
<b>Loans held for sale</b>	<b>15,743</b>	<b>21</b>		<b>15,764</b>
Corporate	9,150		21	9,171
Residential real estate	1,153			1,153
Commercial real estate <sup>3</sup>	601			601
<b>Loans held at fair value</b>	<b>10,904</b>		<b>21</b>	<b>10,925</b>
<b>Total loans</b>	<b>54,284</b>	<b>72,194</b>	<b>26</b>	<b>126,504</b>
<b>Lending commitments<sup>2</sup></b>	<b>95,065</b>	<b>10,663</b>		<b>105,728</b>
<b>Total loans and lending commitments<sup>2</sup></b>	<b>\$ 149,349</b>	<b>\$ 82,857</b>	<b>\$ 26</b>	<b>\$ 232,232</b>

1. Investment Management business segment loans are entered into in conjunction with certain investment advisory activities.
2. Due to the nature of our obligations under the commitments, these amounts include certain commitments participated to third parties.
3. Beginning in 2019, loans previously referred to as Wholesale real estate are referred to as Commercial real estate.



**Table of Contents****Risk Disclosures**

We provide loans and lending commitments to a variety of customers, from large corporate and institutional clients to high net worth individuals. In addition, we purchase loans in the secondary market. In the balance sheets, these loans and lending commitments are carried as held for investment, which are recorded at amortized cost; as held for sale, which are recorded at the lower of cost or fair value; or at fair value with changes in fair value recorded in earnings. Loans held for investment and loans held for sale are classified in Loans, and loans held at fair value are classified in Trading assets in the balance sheets. Total loans and lending commitments increased by approximately \$10 billion primarily due to increases in event-driven lending commitments within the Institutional Securities business segment.

Credit exposure arising from our loans and lending commitments is measured in accordance with our internal risk management standards. Risk factors considered in determining the aggregate allowance for loan and commitment losses include the borrower's financial strength, industry, facility structure, loan-to-value ratio, debt service ratio, collateral and covenants. Qualitative and environmental factors such as economic and business conditions, nature and volume of the portfolio and lending terms, and volume and severity of past due loans may also be considered.

See Notes 3, 7 and 11 to the financial statements for further information.

**Allowance for Loans and Lending Commitments Held for Investment**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Loans	\$ 259	\$ 238
Lending commitments	211	203
Total allowance for loans and lending commitments	\$ 470	\$ 441

The aggregate allowance for loans and lending commitments increased in the current quarter primarily in Institutional Securities as a result of select downgrades within Corporate loans as well as growth in lending commitments. See Notes 7 and 11 to the financial statements for further information.

**Status of Loans Held for Investment**

	At March 31, 2019		At December 31, 2018	
	IS	WM	IS	WM
Current	99.1 %	99.9 %	99.8 %	99.9 %
Nonaccrual <sup>1</sup>	0.9 %	0.1 %	0.2 %	0.1 %

1.

These loans are on nonaccrual status because the loans were past due for a period of 90 days or more or payment of principal or interest was in doubt.

### Institutional Securities Loans and Lending Commitments<sup>1</sup>

\$ in millions	At March 31, 2019				Total
	Years to Maturity				
	Less than 1	1-3	3-5	Over 5	
<b>Loans</b>					
AA	\$ 369	\$ 52	\$	\$ 19	\$ 440
A	712	1,686	999	264	3,661
BBB	3,101	5,070	4,380	401	12,952
NIG	5,966	15,002	10,348	5,646	36,962
Unrated <sup>2</sup>	87	26	234	1,714	2,061
<b>Total loans</b>	<b>10,235</b>	<b>21,836</b>	<b>15,961</b>	<b>8,044</b>	<b>56,076</b>
<b>Lending commitments</b>					
AAA	90	50			140
AA	2,520	1,163	2,757		6,440
A	9,716	5,539	9,857	428	25,540
BBB	3,259	12,132	21,084	374	36,849
NIG	1,637	10,832	15,833	4,750	33,052
Unrated <sup>2</sup>	8		134	11	153
<b>Total lending commitments</b>	<b>17,230</b>	<b>29,716</b>	<b>49,665</b>	<b>5,563</b>	<b>102,174</b>
<b>Total exposure</b>	<b>\$ 27,465</b>	<b>\$ 51,552</b>	<b>\$ 65,626</b>	<b>\$ 13,607</b>	<b>\$ 158,250</b>

\$ in millions	At December 31, 2018				Total
	Years to Maturity				
	Less than 1	1-3	3-5	Over 5	
<b>Loans</b>					
AA	\$ 7	\$ 430	\$	\$ 19	\$ 456
A	565	1,580	858	267	3,270
BBB	3,775	4,697	4,251	495	13,218
NIG	7,151	12,882	9,313	5,889	35,235
Unrated <sup>2</sup>	88	95	160	1,762	2,105
<b>Total loans</b>	<b>11,586</b>	<b>19,684</b>	<b>14,582</b>	<b>8,432</b>	<b>54,284</b>
<b>Lending commitments</b>					
AAA	90	75			165
AA	2,491	1,177	2,863		6,531
A	2,892	6,006	9,895	502	19,295
BBB	2,993	11,825	19,461	638	34,917
NIG	1,681	10,604	16,075	5,751	34,111
Unrated <sup>2</sup>	8		38		46
<b>Total lending commitments</b>	<b>10,155</b>	<b>29,687</b>	<b>48,332</b>	<b>6,891</b>	<b>95,065</b>
<b>Total exposure</b>	<b>\$ 21,741</b>	<b>\$ 49,371</b>	<b>\$ 62,914</b>	<b>\$ 15,323</b>	<b>\$ 149,349</b>

NIG Non-investment grade

1. Obligor credit ratings are internally determined by CRM.

2.

Unrated loans and lending commitments are primarily trading positions that are measured at fair value and risk managed as a component of market risk. For a further discussion of our market risk, see [Market Risk](#) herein.

**Table of Contents****Risk Disclosures****Institutional Securities Loans and Lending Commitments by Industry**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
<b>Industry</b>		
Financials	\$ 34,152	\$ 32,655
Real estate	26,666	24,133
Healthcare	17,348	10,158
Communications services	12,427	11,244
Industrials	11,398	13,701
Energy	9,774	9,847
Utilities	9,360	9,856
Information technology	9,086	9,896
Consumer discretionary	8,087	8,314
Consumer staples	7,583	7,921
Materials	7,033	5,969
Insurance	3,637	3,744
Other	1,699	1,911
<b>Total</b>	<b>\$ 158,250</b>	<b>\$ 149,349</b>

In connection with certain Institutional Securities business segment activities, we provide loans and lending commitments to a diverse group of corporate and other institutional clients. We also purchase a variety of loans in the secondary market. Our loans and lending commitments may have varying terms; may be senior or subordinated; may be secured or unsecured; are generally contingent upon representations, warranties and contractual conditions applicable to the borrower; and may be syndicated, traded or hedged by us.

We also participate in securitization activities, whereby we extend short- or long-term collateralized lines of credit and term loans with various types of collateral, including residential real estate, commercial real estate, corporate and financial assets. These collateralized loans and lending commitments generally provide for over-collateralization. Credit risk with respect to these loans and lending commitments arises from the failure of a borrower to perform according to the terms of the loan agreement or a decline in the underlying collateral value. The Firm monitors collateral levels against the requirements of lending agreements. See Note 12 to the financial statements for information about our securitization activities.

**Institutional Securities Corporate Loans<sup>1</sup>**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Corporate relationship and event-driven lending <sup>2</sup>	\$ 13,248	\$ 13,317
Secured lending facilities <sup>3</sup>	22,388	21,408
Securities-based lending and other <sup>4</sup>	7,402	8,331
<b>Total Corporate</b>	<b>\$ 43,038</b>	<b>\$ 43,056</b>

1. Amounts include loans held for investment, loans held for sale and loans measured at fair value. Loans at fair value are included in Trading assets in the balance sheets.
2. Relationship and event-driven loans typically consist of revolving lines of credit, term loans and bridge loans. For additional information on event-driven loans, see Institutional Securities Event-Driven Loans and Lending Commitments herein.
3. Secured lending facilities includes loans provided to clients to warehouse loans secured by underlying real estate and other assets.
4. Securities-based lending and other includes financing extended to sales and trading customers and corporate loans purchased in the secondary market.

#### **Institutional Securities Event-Driven Loans and Lending Commitments**

<i>\$ in millions</i>	At March 31, 2019				
	Years to Maturity				
	Less than 1	1-3	3-5	Over 5	Total
Loans	\$ 2,010	\$ 307	\$ 476	\$ 1,784	\$ 4,577
Lending commitments	7,594	2,816	3,192	2,436	16,038
<b>Total loans and lending commitments</b>	<b>\$ 9,604</b>	<b>\$ 3,123</b>	<b>\$ 3,668</b>	<b>\$ 4,220</b>	<b>\$ 20,615</b>

<i>\$ in millions</i>	At December 31, 2018				
	Years to Maturity				
	Less than 1	1-3	3-5	Over 5	Total
Loans	\$ 2,582	\$ 287	\$ 656	\$ 1,618	\$ 5,143
Lending commitments	1,506	2,456	2,877	3,658	10,497
<b>Total loans and lending commitments</b>	<b>\$ 4,088</b>	<b>\$ 2,743</b>	<b>\$ 3,533</b>	<b>\$ 5,276</b>	<b>\$ 15,640</b>

Event-driven loans and lending commitments, which comprise a portion of corporate loans and lending commitments within the Institutional Securities business segment, are associated with a particular event or transaction, such as to support client merger, acquisition, recapitalization or project finance activities. Event-driven loans and lending commitments typically consist of revolving lines of credit, term loans and bridge loans. Amounts may fluctuate as they are transaction-specific, the timing and size of which can vary from period to period.

#### **Wealth Management Loans and Lending Commitments**

## At March 31, 2019

<i>\$ in millions</i>	Contractual Years to Maturity				Total
	Less than 1	1-3	3-5	Over 5	
Securities-based lending and other loans	\$ 36,455	\$ 3,352	\$ 2,467	\$ 1,138	\$ 43,412
Residential real estate loans	1	29		28,008	28,038
Total loans	\$ 36,456	\$ 3,381	\$ 2,467	\$ 29,146	\$ 71,450
Lending commitments	9,872	1,619	378	278	12,147
<b>Total loans and lending commitments</b>	<b>\$ 46,328</b>	<b>\$ 5,000</b>	<b>\$ 2,845</b>	<b>\$ 29,424</b>	<b>\$ 83,597</b>
Securities-based lending LAL platform loans					\$ 32,731

## At December 31, 2018

<i>\$ in millions</i>	Contractual Years to Maturity				Total
	Less than 1	1-3	3-5	Over 5	
Securities-based lending and other loans	\$ 38,144	\$ 3,573	\$ 2,004	\$ 1,006	\$ 44,727
Residential real estate loans		30	1	27,436	27,467
Total loans	\$ 38,144	\$ 3,603	\$ 2,005	\$ 28,442	\$ 72,194
Lending commitments	9,197	1,151	42	273	10,663
<b>Total loans and lending commitments</b>	<b>\$ 47,341</b>	<b>\$ 4,754</b>	<b>\$ 2,047</b>	<b>\$ 28,715</b>	<b>\$ 82,857</b>
Securities-based lending LAL platform loans					\$ 33,247



**Table of Contents****Risk Disclosures**

The principal Wealth Management lending activities include securities-based lending and residential real estate loans.

Securities-based lending provided to our clients is primarily conducted through our Liquidity Access Line ( LAL ) platform. For more information about our securities-based lending and residential real estate loans, see Quantitative and Qualitative Disclosures about Risk Credit Risk Wealth Management in the 2018 Form 10-K.

For the current quarter, Loans and Lending commitments associated with the Wealth Management business segment were relatively unchanged.

**Customer and Other Receivables****Margin Loans**

	<b>At March 31, 2019</b>		
<i>\$ in millions</i>	IS	WM	Total
Customer receivables representing margin loans	<b>\$ 16,800</b>	<b>\$ 10,627</b>	<b>\$ 27,427</b>

	<b>At December 31, 2018</b>		
<i>\$ in millions</i>	IS	WM	Total
Customer receivables representing margin loans	<b>\$ 14,842</b>	<b>\$ 11,383</b>	<b>\$ 26,225</b>

The Institutional Securities and Wealth Management business segments provide margin lending arrangements, which allow customers to borrow against the value of qualifying securities. Margin lending activities generally have minimal credit risk due to the value of collateral held and their short-term nature. Amounts may fluctuate from period to period as overall client balances change as a result of market levels, client positioning and leverage.

**Employee Loans**

	<b>At March 31, 2019</b>	<b>At December 31, 2018</b>
<i>\$ in millions</i>		
Balance	<b>\$ 3,011</b>	<b>\$ 3,415</b>
Allowance for loan losses	<b>(64)</b>	<b>(63)</b>
Balance, net	<b>\$ 2,947</b>	<b>\$ 3,352</b>
Repayment term range, in years	<b>1 to 20</b>	<b>1 to 20</b>

Employee loans are granted in conjunction with a program established primarily to recruit certain Wealth Management representatives, are full recourse and generally require periodic repayments. We establish an allowance for loan amounts to terminated employees that we do not consider recoverable, which is recorded in Compensation

and benefits expense.

## Derivatives

### Fair Value of OTC Derivative Assets

<i>\$ in millions</i>	Counterparty Credit Rating <sup>1</sup>					Total
	AAA	AA	A	BBB	NIG	
<b>At March 31, 2019</b>						
<1 year	\$ 353	\$ 6,123	\$ 38,006	\$ 12,809	\$ 5,577	\$ 62,868
1-3 years	387	2,222	23,295	8,452	6,346	40,702
3-5 years	533	2,112	11,960	5,162	2,826	22,593
Over 5 years	3,662	11,190	79,733	34,492	12,249	141,326
Total, gross	\$ 4,935	\$ 21,647	\$ 152,994	\$ 60,915	\$ 26,998	\$ 267,489
Counterparty netting	(1,851)	(13,737)	(124,569)	(44,232)	(16,326)	(200,715)
Cash and securities collateral	(2,889)	(6,115)	(22,866)	(11,830)	(7,691)	(51,391)
Total, net	\$ 195	\$ 1,795	\$ 5,559	\$ 4,853	\$ 2,981	\$ 15,383

<i>\$ in millions</i>	Counterparty Credit Rating <sup>1</sup>					Total
	AAA	AA	A	BBB	NIG	
<b>At December 31, 2018</b>						
<1 year	\$ 878	\$ 7,430	\$ 38,718	\$ 15,009	\$ 7,183	\$ 69,218
1-3 years	664	2,362	22,239	10,255	7,097	42,617
3-5 years	621	2,096	11,673	6,014	2,751	23,155
Over 5 years	3,535	9,725	67,166	36,087	11,112	127,625
Total, gross	\$ 5,698	\$ 21,613	\$ 139,796	\$ 67,365	\$ 28,143	\$ 262,615
Counterparty netting	(2,325)	(13,771)	(113,045)	(49,658)	(16,681)	(195,480)
Cash and securities collateral	(3,214)	(5,766)	(21,931)	(12,702)	(8,269)	(51,882)
Total, net	\$ 159	\$ 2,076	\$ 4,820	\$ 5,005	\$ 3,193	\$ 15,253

<i>\$ in millions</i>	At	
	March 31, 2019	December 31, 2018
<b>Industry</b>		
Utilities	\$ 4,472	\$ 4,324
Financials	4,108	4,480
Industrials	1,110	1,335
Healthcare	916	787
Regional governments	916	779
Information technology	758	695
Not-for-profit organizations	630	583
Communication services	395	373

Edgar Filing: MORGAN STANLEY - Form 10-Q

Sovereign governments	<b>367</b>	385
Energy	<b>350</b>	199
Consumer discretionary	<b>311</b>	188
Real estate	<b>285</b>	283
Materials	<b>275</b>	275
Insurance	<b>181</b>	235
Consumer staples	<b>161</b>	216
Other	<b>148</b>	116
<b>Total</b>	<b>\$ 15,383</b>	<b>\$ 15,253</b>

1. Obligor credit ratings are determined internally by CRM.

**Table of Contents****Risk Disclosures**

We incur credit risk as a dealer in OTC derivatives. Credit risk with respect to derivative instruments arises from the possibility that a counterparty may fail to perform according to the terms of the contract. For more information on derivatives, see [Quantitative and Qualitative Disclosures about Risk - Credit Risk - Derivatives](#) in the 2018 Form 10-K and Note 4 to the financial statements.

**Country Risk**

Country risk exposure is the risk that events in, or that affect, a foreign country (any country other than the U.S.) might adversely affect us. We actively manage country risk exposure through a comprehensive risk management framework that combines credit and market fundamentals and allows us to effectively identify, monitor and limit country risk. For a further discussion of our country risk exposure see, [Quantitative and Qualitative Disclosures about Risk - Country Risk](#) in the 2018 Form 10-K.

Our sovereign exposures consist of financial contracts and obligations entered into with sovereign and local governments. Our non-sovereign exposures consist of financial contracts and obligations entered into primarily with corporations and financial institutions. Index credit derivatives are included in the following country risk exposure table. Each reference entity within an index is allocated to that reference entity's country of risk. Index exposures are allocated to the underlying reference entities in proportion to the notional weighting of each reference entity in the index, adjusted for any fair value receivable or payable for that reference entity. Where credit risk crosses multiple jurisdictions, for example, a CDS purchased from an issuer in a specific country that references bonds issued by an entity in a different country, the fair value of the CDS is reflected in the Net Counterparty Exposure row based on the country of the CDS issuer. Further, the notional amount of the CDS adjusted for the fair value of the receivable or payable is reflected in the Net Inventory row based on the country of the underlying reference entity.

**Top 10 Non-U.S. Country Exposures at March 31, 2019****United Kingdom**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ (719)	\$ 317	\$ (402)
Net counterparty exposure <sup>2</sup>	1	9,526	9,527
Loans		2,840	2,840
Lending commitments		4,610	4,610
Exposure before hedges	(718)	17,293	16,575
Hedges <sup>3</sup>	(312)	(1,381)	(1,693)
Net exposure	\$ (1,030)	\$ 15,912	\$ 14,882

**Japan**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ 4,533	\$ 81	\$ 4,614
Net counterparty exposure <sup>2</sup>	61	3,057	3,118
Loans		316	316
Exposure before hedges	4,594	3,454	8,048
Hedges <sup>3</sup>	(117)	(115)	(232)
Net exposure	\$ 4,477	\$ 3,339	\$ 7,816

**Germany**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ 328	\$ 160	\$ 488
Net counterparty exposure <sup>2</sup>	170	1,938	2,108
Loans		1,063	1,063
Lending commitments		3,198	3,198
Exposure before hedges	498	6,359	6,857
Hedges <sup>3</sup>	(268)	(1,051)	(1,319)
Net exposure	\$ 230	\$ 5,308	\$ 5,538

**Brazil**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ 4,846	\$ 95	\$ 4,941
Net counterparty exposure <sup>2</sup>		232	232
Loans		40	40
Lending commitments		269	269
Exposure before hedges	4,846	636	5,482
Hedges <sup>3</sup>	(12)	(18)	(30)
Net exposure	\$ 4,834	\$ 618	\$ 5,452

**Spain**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ (857)	\$ (62)	\$ (919)
Net counterparty exposure <sup>2</sup>		204	204
Loans		3,675	3,675
Lending commitments		1,684	1,684
Exposure before hedges	(857)	5,501	4,644
Hedges <sup>3</sup>		(128)	(128)
Net exposure	\$ (857)	\$ 5,373	\$ 4,516

**Australia**

Edgar Filing: MORGAN STANLEY - Form 10-Q

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ 1,932	\$ 495	\$ 2,427
Net counterparty exposure <sup>2</sup>	4	451	455
Loans		95	95
Lending commitments		796	796
Exposure before hedges	1,936	1,837	3,773
Hedges <sup>3</sup>		(104)	(104)
Net exposure	\$ 1,936	\$ 1,733	\$ 3,669

**China**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ 200	\$ 869	\$ 1,069
Net counterparty exposure <sup>2</sup>	113	180	293
Loans		1,242	1,242
Lending commitments		1,150	1,150
Exposure before hedges	313	3,441	3,754
Hedges <sup>3</sup>	(112)	(40)	(152)
Net exposure	\$ 201	\$ 3,401	\$ 3,602

March 2019 Form 10-Q

30

**Table of Contents****Risk Disclosures****Canada**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ (367)	\$ 111	\$ (256)
Net counterparty exposure <sup>2</sup>	41	1,811	1,852
Loans		91	91
Lending commitments		1,800	1,800
Exposure before hedges	(326)	3,813	3,487
Hedges <sup>3</sup>		(171)	(171)
Net exposure	\$ (326)	\$ 3,642	\$ 3,316

**Netherlands**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ (204)	\$ 156	\$ (48)
Net counterparty exposure <sup>2</sup>		709	709
Loans		1,427	1,427
Lending commitments		1,385	1,385
Exposure before hedges	(204)	3,677	3,473
Hedges <sup>3</sup>	(32)	(229)	(261)
Net exposure	\$ (236)	\$ 3,448	\$ 3,212

**India**

<i>\$ in millions</i>	Sovereigns	Non-sovereigns	Total
Net inventory <sup>1</sup>	\$ 1,500	\$ 633	\$ 2,133
Net counterparty exposure <sup>2</sup>		599	599
Lending commitments		95	95
Exposure before hedges	1,500	1,327	2,827
Net exposure	\$ 1,500	\$ 1,327	\$ 2,827

1. Net inventory represents exposure to both long and short single-name and index positions (*i.e.*, bonds and equities at fair value and CDS based on a notional amount assuming zero recovery adjusted for the fair value of any receivable or payable).

2. Net counterparty exposure (*e.g.*, repurchase transactions, securities lending and OTC derivatives) takes into consideration legally enforceable master netting agreements and collateral. Net counterparty exposure is net of the benefit of collateral received. For more information, see [Additional Information Top 10 Non-U.S. Country Exposures](#) herein.

3. Amounts represent CDS hedges (purchased and sold) on net counterparty exposure and lending executed by trading desks responsible for hedging counterparty and lending credit risk exposures. Amounts are based on the CDS notional amount assuming zero recovery adjusted for any fair value receivable or payable. For a further description of the contractual terms for purchased credit protection and whether they may limit the effectiveness of our hedges, see *Quantitative and Qualitative Disclosures about Risk - Credit Risk - Derivatives* in the 2018 Form 10-K.

### Additional Information - Top 10 Non-U.S. Country Exposures

#### Single-Name and Index Credit Derivatives Included in Net Inventory

	At
	March 31, 2019
<i>\$ in millions</i>	
Gross purchased protection	\$ (61,098)
Gross written protection	57,463
Net exposure	\$ (3,635)

#### Benefit of Collateral Received against Net Counterparty Exposure

		At
		March 31, 2019
<i>\$ in millions</i>		
<b>Counterparty credit exposure</b>	<b>Collateral<sup>1</sup></b>	
Germany	Germany and Italy	\$ 10,110
United Kingdom	U.K., U.S. and Italy	8,661
Other	France, Japan and U.S.	11,150

1. Collateral primarily consists of cash and government obligations.

#### *Country Risk Exposures Related to the U.K.*

At March 31, 2019, our country risk exposures in the U.K. included net exposures of \$14,882 million as shown in the Top 10 Country Exposures table, and overnight deposits of \$7,605 million. The \$15,912 million of exposures to non-sovereigns were diversified across both names and sectors. Of these exposures, \$6,377 million were to U.K.-focused counterparties that generate more than one-third of their revenues in the U.K., \$3,586 million were to geographically diversified counterparties, and \$5,671 million were to exchanges and clearinghouses.

#### Operational Risk

Operational risk refers to the risk of loss, or of damage to our reputation, resulting from inadequate or failed processes or systems, from human factors or from external events (*e.g.*, fraud, theft, legal and compliance risks, cyber attacks or damage to physical assets). We may incur operational risk across the full scope of our business activities, including revenue-generating activities (*e.g.*, sales and trading) and support and control groups (*e.g.*, information technology and trade processing). For a further discussion about our operational risk, see *Quantitative and Qualitative Disclosures about Risk - Operational Risk* in the 2018 Form 10-K.

#### Model Risk



Model risk refers to the potential for adverse consequences from decisions based on incorrect or misused model outputs. Model risk can lead to financial loss, poor business and strategic decision making, or damage to a firm's reputation. The risk inherent in a model is a function of the materiality, complexity and uncertainty around inputs and assumptions. Model risk is generated from the use of models impacting financial statements, regulatory filings, capital adequacy assessments and the formulation of strategy. For a further discussion about our model risk, see [Quantitative and Qualitative Disclosures about Risk - Model Risk](#) in the 2018 Form 10-K.

**Table of Contents**

**Risk Disclosures**

**Liquidity Risk**

Liquidity risk refers to the risk that we will be unable to finance our operations due to a loss of access to the capital markets or difficulty in liquidating our assets. Liquidity risk also encompasses our ability (or perceived ability) to meet our financial obligations without experiencing significant business disruption or reputational damage that may threaten our viability as a going concern. For a further discussion about our liquidity risk, see [Quantitative and Qualitative Disclosures about Risk – Liquidity Risk](#) in the 2018 Form 10-K and [Management’s Discussion and Analysis of Financial Condition and Results of Operations – Liquidity and Capital Resources](#) herein.

**Legal and Compliance Risk**

Legal and compliance risk includes the risk of legal or regulatory sanctions, material financial loss, including fines, penalties, judgments, damages and/or settlements, or loss to reputation that we may suffer as a result of failure to comply with laws, regulations, rules, related self-regulatory organization standards and codes of conduct applicable to our business activities. This risk also includes contractual and commercial risk, such as the risk that a counterparty’s performance obligations will be unenforceable. It also includes compliance with AML, terrorist financing, and anti-corruption rules and regulations. For a further discussion about our legal and compliance risk, see [Quantitative and Qualitative Disclosures about Risk – Legal and Compliance Risk](#) in the 2018 Form 10-K.

**Table of Contents**

**Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Shareholders of Morgan Stanley:

**Results of Review of Interim Financial Information**

We have reviewed the accompanying condensed consolidated balance sheet of Morgan Stanley and subsidiaries (the Firm ) as of March 31, 2019, and the related condensed consolidated income statements, comprehensive income statements, cash flow statements and statements of changes in total equity for the three-month periods ended March 31, 2019 and 2018, and the related notes (collectively referred to as the interim financial information ). Based on our reviews, we are not aware of any material modifications that should be made to the accompanying interim financial information for it to be in conformity with accounting principles generally accepted in the United States of America.

We have previously audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheet of the Firm as of December 31, 2018, and the related consolidated income statement, comprehensive income statement, cash flow statement and statement of changes in total equity for the year then ended (not presented herein) included in the Firm s Annual Report on Form 10-K; and in our report dated February 26, 2019, we expressed an unqualified opinion on those consolidated financial statements. In our opinion, the information set forth in the accompanying condensed consolidated balance sheet as of December 31, 2018 is fairly stated, in all material respects, in relation to the consolidated balance sheet from which it has been derived.

**Basis for Review Results**

This interim financial information is the responsibility of the Firm s management. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Firm in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our reviews in accordance with the standards of the PCAOB. A review of interim financial information consists principally of applying analytical procedures and making inquiries of persons responsible for financial and accounting matters. It is substantially less in scope than an audit conducted in accordance with the standards of the PCAOB, the objective of which is the expression of an opinion regarding the financial statements taken as a whole. Accordingly, we do not express such an opinion.

/s/ Deloitte & Touche LLP

New York, New York  
May 3, 2019



**Table of Contents****Consolidated Income Statements****(Unaudited)**

<i>in millions, except per share data</i>	Three Months Ended March 31,	
	2019	2018
<b>Revenues</b>		
Investment banking	\$ 1,242	\$ 1,634
Trading	3,441	3,770
Investments	273	126
Commissions and fees	966	1,173
Asset management	3,049	3,192
Other	301	207
Total non-interest revenues	9,272	10,102
Interest income	4,290	2,860
Interest expense	3,276	1,885
Net interest	1,014	975
<b>Net revenues</b>	<b>10,286</b>	<b>11,077</b>
<b>Non-interest expenses</b>		
Compensation and benefits	4,651	4,914
Occupancy and equipment	347	336
Brokerage, clearing and exchange fees	593	627
Information processing and communications	532	478
Marketing and business development	141	140
Professional services	514	510
Other	553	652
<b>Total non-interest expenses</b>	<b>7,331</b>	<b>7,657</b>
Income from continuing operations before income taxes	2,955	3,420
Provision for income taxes	487	714
Income from continuing operations	2,468	2,706
Income (loss) from discontinued operations, net of income taxes		(2)
Net income	\$ 2,468	\$ 2,704
Net income applicable to noncontrolling interests	39	36
Net income applicable to Morgan Stanley	\$ 2,429	\$ 2,668
Preferred stock dividends and other	93	93
<b>Earnings applicable to Morgan Stanley common shareholders</b>	<b>\$ 2,336</b>	<b>\$ 2,575</b>
<b>Earnings per common share</b>		
Basic	\$ 1.41	\$ 1.48
Diluted	\$ 1.39	\$ 1.45

**Average common shares outstanding**

Basic	<b>1,658</b>	1,740
Diluted	<b>1,677</b>	1,771

March 2019 Form 10-Q

34

See Notes to Consolidated Financial  
Statements

**Table of Contents****Consolidated Comprehensive Income Statements****(Unaudited)**

<i>\$ in millions</i>	Three Months Ended	
	2019	2018
Net income	\$ 2,468	\$ 2,704
Other comprehensive income (loss), net of tax:		
Foreign currency translation adjustments	\$ (22)	\$ 117
Change in net unrealized gains (losses) on available-for-sale securities	429	(410)
Pension, postretirement and other	1	5
Change in net debt valuation adjustment	(620)	451
Total other comprehensive income (loss)	\$ (212)	\$ 163
Comprehensive income	\$ 2,256	\$ 2,867
Net income applicable to noncontrolling interests	39	36
Other comprehensive income (loss) applicable to noncontrolling interests	(31)	72
<b>Comprehensive income applicable to Morgan Stanley</b>	<b>\$ 2,248</b>	<b>\$ 2,759</b>

See Notes to Consolidated Financial Statements

35

March 2019 Form 10-Q

**Table of Contents****Consolidated Balance Sheets**

<i>\$ in millions, except share data</i>	(Unaudited)	
	At March 31, 2019	At December 31, 2018
<b>Assets</b>		
Cash and cash equivalents:		
Cash and due from banks	\$ 35,472	\$ 30,541
Interest bearing deposits with banks	14,498	21,299
Restricted cash	30,712	35,356
Trading assets at fair value (\$103,750 and \$120,437 were pledged to various parties)	264,818	266,299
Investment securities (includes \$61,641 and \$61,061 at fair value)	97,944	91,832
Securities purchased under agreements to resell (includes \$5 and \$ at fair value)	96,570	98,522
Securities borrowed	138,891	116,313
Customer and other receivables	52,667	53,298
Loans:		
Held for investment (net of allowance of \$259 and \$238)	101,266	99,815
Held for sale	14,931	15,764
Goodwill	6,686	6,688
Intangible assets (net of accumulated amortization of \$2,952 and \$2,877)	2,084	2,163
Other assets	19,425	15,641
<b>Total assets</b>	<b>\$ 875,964</b>	<b>\$ 853,531</b>
<b>Liabilities</b>		
Deposits (includes \$692 and \$442 at fair value)	\$ 179,731	\$ 187,820
Trading liabilities at fair value	144,565	126,747
Securities sold under agreements to repurchase (includes \$622 and \$812 at fair value)	47,948	49,759
Securities loaned	12,508	11,908
Other secured financings (includes \$4,283 and \$5,245 at fair value)	8,043	9,466
Customer and other payables	193,092	179,559
Other liabilities and accrued expenses	17,494	17,204
Borrowings (includes \$56,464 and \$51,184 at fair value)	190,691	189,662
<b>Total liabilities</b>	<b>794,072</b>	<b>772,125</b>
<b>Commitments and contingent liabilities (see Note 11)</b>		
<b>Equity</b>		



Edgar Filing: MORGAN STANLEY - Form 10-Q

Morgan Stanley shareholders equity:

Preferred stock	<b>8,520</b>	8,520
Common stock, \$0.01 par value:		
Shares authorized: <b>3,500,000,000</b> ; Shares issued: <b>2,038,893,979</b> ; Shares outstanding: <b>1,685,996,391</b> and 1,699,828,943	<b>20</b>	20
Additional paid-in capital	<b>23,178</b>	23,794
Retained earnings	<b>66,061</b>	64,175
Employee stock trusts	<b>3,000</b>	2,836
Accumulated other comprehensive income (loss)	<b>(2,473)</b>	(2,292)
Common stock held in treasury at cost, \$0.01 par value ( <b>352,897,588</b> and 339,065,036 shares)	<b>(14,582)</b>	(13,971)
Common stock issued to employee stock trusts	<b>(3,000)</b>	(2,836)
<b>Total Morgan Stanley shareholders equity</b>	<b>80,724</b>	80,246
Noncontrolling interests	<b>1,168</b>	1,160
<b>Total equity</b>	<b>81,892</b>	81,406
<b>Total liabilities and equity</b>	<b>\$ 875,964</b>	<b>\$ 853,531</b>

March 2019 Form 10-Q

36

See Notes to Consolidated Financial Statements

Table of Contents**Consolidated Statements of Changes in Total Equity****(Unaudited)**

<i>\$ in millions</i>	Preferred Stock	Common Stock	Additional Paid-in Capital	Retained Earnings	Employee Stock Trusts	Accumulated Other Comprehensive Income (Loss)	Common Stock Held in Treasury at Cost	Common Stock Issued to Employee Stock Trusts	Non-controlling Interests	Total Equity
Balance at December 31, 2018	\$ 8,520	\$ 20	\$ 23,794	\$ 64,175	\$ 2,836	\$ (2,292)	\$ (13,971)	\$ (2,836)	\$ 1,160	\$ 81,406
Cumulative adjustments for accounting changes <sup>1</sup>				63						63
Net income applicable to Morgan Stanley				2,429						2,429
Net income applicable to noncontrolling interests									39	39
Preferred stock dividends <sup>2</sup>				(93)						(93)
Common stock dividends (\$0.30 per share)				(513)						(513)
Shares issued under employee plans			(618)		164		1,034	(164)		416
Repurchases of common stock and employee tax withholdings							(1,645)			(1,645)
Net change in Accumulated other comprehensive income (loss)						(181)			(31)	(212)

Other net increases												2	2
<b>Balance at March 31, 2019</b>	<b>\$ 8,520</b>	<b>\$ 20</b>	<b>\$ 23,178</b>	<b>\$ 66,061</b>	<b>\$ 3,000</b>	<b>\$ (2,473)</b>	<b>\$ (14,582)</b>	<b>\$ (3,000)</b>	<b>\$ 1,168</b>	<b>\$ 81,892</b>			
Balance at December 31, 2017	\$ 8,520	\$ 20	\$ 23,545	\$ 57,577	\$ 2,907	\$ (3,060)	\$ (9,211)	\$ (2,907)	\$ 1,075	\$ 78,466			
Cumulative adjustments for accounting changes <sup>1</sup>				306		(437)						(131)	
Net income applicable to Morgan Stanley				2,668								2,668	
Net income applicable to noncontrolling interests									36			36	
Preferred stock dividends <sup>2</sup>				(93)								(93)	
Common stock dividends (\$0.25 per share)				(449)								(449)	
Shares issued under employee plans			(285)				710					425	
Repurchases of common stock and employee tax withholdings							(1,868)					(1,868)	
Net change in Accumulated other comprehensive income (loss)						91			72			163	
Other net increases									272			272	
Balance at March 31, 2018	\$ 8,520	\$ 20	\$ 23,260	\$ 60,009	\$ 2,907	\$ (3,406)	\$ (10,369)	\$ (2,907)	\$ 1,455	\$ 79,489			

1. Cumulative adjustments for accounting changes relate to the adoption of certain accounting updates during the current and prior year quarters. See Notes 2 and 14 for further information.

2. See Note 14 for information regarding dividends per share for each class of preferred stock.

See Notes to Consolidated Financial  
Statements

37

March 2019 Form 10-Q

**Table of Contents****Consolidated Cash Flow Statements****(Unaudited)**

<i>\$ in millions</i>	Three Months Ended March 31,	
	2019	2018
<b>Cash flows from operating activities</b>		
Net income	\$ 2,468	\$ 2,704
Adjustments to reconcile net income to net cash provided by (used for) operating activities:		
Stock-based compensation expense	293	321
Depreciation and amortization	658	390
Provision for credit losses on lending activities	36	26
Other operating adjustments	(92)	(37)
Changes in assets and liabilities:		
Trading assets, net of Trading liabilities	23,977	33,832
Securities borrowed	(22,578)	(11,825)
Securities loaned	600	(36)
Customer and other receivables and other assets	1,567	(13,019)
Customer and other payables and other liabilities	9,971	1,129
Securities purchased under agreements to resell	1,952	4,012
Securities sold under agreements to repurchase	(1,811)	(4,849)
<b>Net cash provided by (used for) operating activities</b>	<b>17,041</b>	<b>12,648</b>
<b>Cash flows from investing activities</b>		
Proceeds from (payments for):		
Other assets Premises, equipment and software, net	(529)	(410)
Changes in loans, net	(1,329)	(3,801)
Investment securities:		
Purchases	(15,895)	(5,482)
Proceeds from sales	7,875	810
Proceeds from paydowns and maturities	2,663	2,125
Other investing activities	(12)	(164)
<b>Net cash provided by (used for) investing activities</b>	<b>(7,227)</b>	<b>(6,922)</b>
<b>Cash flows from financing activities</b>		
Net proceeds from (payments for):		
Other secured financings	(1,575)	(2,101)
Deposits	(8,089)	988
Proceeds from:		
Issuance of Borrowings	8,091	15,370
Payments for:		
Borrowings	(11,927)	(11,377)
Repurchases of common stock and employee tax withholdings	(1,645)	(1,868)

Cash dividends	(663)	(599)
Other financing activities	(56)	(50)
<b>Net cash provided by (used for) financing activities</b>	<b>(15,864)</b>	363
Effect of exchange rate changes on cash and cash equivalents	(464)	860
Net increase (decrease) in cash and cash equivalents	(6,514)	6,949
Cash and cash equivalents, at beginning of period	87,196	80,395
<b>Cash and cash equivalents, at end of period</b>	<b>\$ 80,682</b>	<b>\$ 87,344</b>
Cash and cash equivalents:		
Cash and due from banks	\$ 35,472	\$ 29,073
Interest bearing deposits with banks	14,498	22,980
Restricted cash	30,712	35,291
<b>Cash and cash equivalents, at end of period</b>	<b>\$ 80,682</b>	<b>\$87,344</b>
<b>Supplemental Disclosure of Cash Flow Information</b>		
Cash payments for:		
Interest	\$ 2,896	\$ 1,407
Income taxes, net of refunds	245	250

March 2019 Form 10-Q

38

See Notes to Consolidated Financial  
Statements

**Table of Contents**

**Notes to Consolidated Financial Statements**

**(Unaudited)**

**1. Introduction and Basis of Presentation**

**The Firm**

Morgan Stanley is a global financial services firm that maintains significant market positions in each of its business segments Institutional Securities, Wealth Management and Investment Management. Morgan Stanley, through its subsidiaries and affiliates, provides a wide variety of products and services to a large and diversified group of clients and customers, including corporations, governments, financial institutions and individuals. Unless the context otherwise requires, the terms Morgan Stanley or the Firm mean Morgan Stanley (the Parent Company ) together with its consolidated subsidiaries. See the Glossary of Common Acronyms for definitions of certain acronyms used throughout this Form 10-Q.

A description of the clients and principal products and services of each of the Firm's business segments is as follows:

*Institutional Securities* provides investment banking, sales and trading, lending and other services to corporations, governments, financial institutions, and high to ultra-high net worth clients. Investment banking services consist of capital raising and financial advisory services, including services relating to the underwriting of debt, equity and other securities, as well as advice on mergers and acquisitions, restructurings, real estate and project finance. Sales and trading services include sales, financing, prime brokerage and market-making activities in equity and fixed income products, including foreign exchange and commodities. Lending activities include originating corporate loans, commercial mortgage lending, providing secured lending facilities and extending financing to sales and trading customers. Other activities include investments and research.

*Wealth Management* provides a comprehensive array of financial services and solutions to individual investors and small to medium-sized businesses and institutions covering brokerage and investment advisory services; financial and wealth planning services; annuity and insurance products; securities-based lending, residential real estate loans and other lending products; banking and retirement plan services.

*Investment Management* provides a broad range of investment strategies and products that span geographies, asset classes, and public and private markets to a diverse group of clients across institutional and intermediary channels. Strategies and products include equity, fixed income, liquidity and alternative/other products. Institutional clients include defined benefit/defined

contribution plans, foundations, endowments, government entities, sovereign wealth funds, insurance companies, third-party fund sponsors and corporations. Individual clients are served through intermediaries, including affiliated and non-affiliated distributors.

**Basis of Financial Information**

The unaudited consolidated financial statements ( financial statements ) are prepared in accordance with U.S. GAAP, which requires the Firm to make estimates and assumptions regarding the valuations of certain financial instruments, the valuation of goodwill and intangible assets, compensation, deferred tax assets, the outcome of legal and tax matters, allowance for credit losses and other matters that affect its financial statements and related disclosures. The Firm believes that the estimates utilized in the preparation of its financial statements are prudent and reasonable. Actual results could differ materially from these estimates. Intercompany balances and transactions have been eliminated. Certain reclassifications have been made to prior periods to conform to the current presentation.

The accompanying financial statements should be read in conjunction with the Firm s financial statements and notes thereto included in the 2018 Form 10-K. Certain footnote disclosures included in the 2018 Form 10-K have been condensed or omitted from these financial statements as they are not required for interim reporting under U.S. GAAP. The financial statements reflect all adjustments of a normal, recurring nature that are, in the opinion of management, necessary for the fair presentation of the results for the interim period. The results of operations for interim periods are not necessarily indicative of results for the entire year.

### ***Consolidation***

The financial statements include the accounts of the Firm, its wholly owned subsidiaries and other entities in which the Firm has a controlling financial interest, including certain VIEs (see Note 12). For consolidated subsidiaries that are not wholly owned, the third-party holdings of equity interests are referred to as noncontrolling interests. The net income attributable to noncontrolling interests for such subsidiaries is presented as Net income applicable to noncontrolling interests in the consolidated income statements ( income statements ). The portion of shareholders equity that is attributable to noncontrolling interests for such subsidiaries is presented as noncontrolling interests, a component of total equity, in the consolidated balance sheets ( balance sheets ).

For a discussion of the Firm s involvement with VIEs and its significant regulated U.S. and international subsidiaries, see Note 1 to the financial statements in the 2018 Form 10-K.



**Table of Contents**

**Notes to Consolidated Financial Statements**

**(Unaudited)**

**2. Significant Accounting Policies**

For a detailed discussion about the Firm's significant accounting policies, see Note 2 to the financial statements in the 2018 Form 10-K.

During the three months ended March 31, 2019 ( current quarter ), there were no significant revisions to the Firm's significant accounting policies, other than for the accounting updates adopted.

**Accounting Updates Adopted**

The Firm adopted the following accounting updates on January 1, 2019. Prior periods are presented under previous policies.

***Leases***

The Firm adopted *Leases*, and recognized leases with terms exceeding one year in the March 31, 2019 balance sheet as right-of-use ( ROU ) assets and corresponding liabilities. The adoption resulted in an increase to Retained earnings of approximately \$63 million, net of tax, related to deferred revenue from previously recorded sale-leaseback transactions. At transition on January 1, 2019, the adoption also resulted in a balance sheet gross-up of approximately \$4 billion reflected in Other assets and Other liabilities and accrued expenses. See Note 11 for lease disclosures, including amounts reflected in the March 31, 2019 balance sheet. Prior period amounts were not restated.

As allowed by the guidance, the Firm elected not to reassess the following at transition: whether existing contracts are or contain leases, and for existing leases, lease classification and initial direct costs. In addition, the Firm continues to account for existing land easements as service contracts.

Both at transition and for new leases thereafter, ROU assets and lease liabilities are initially recognized based on the present value of the future minimum lease payments over the lease term, including non-lease components such as fixed common area maintenance costs and other fixed costs such as real estate taxes and insurance.

The discount rates used in determining the present value of leases are the Firm's incremental borrowing rates, developed based upon each lease's term and currency of payment. The lease term includes options to extend or terminate the lease when it is reasonably certain that the Firm will exercise that option. For operating leases, the ROU assets also include any

prepaid lease payments and initial direct costs incurred and are reduced by lease incentives. For these leases, lease expense is recognized on a straight-line basis over the lease term if the ROU asset has not been impaired or abandoned.

***Derivatives and Hedging (ASU 2018-16)***

The amendments in this update permit use of the OIS rate based on the Secured Overnight Financing Rate as a U.S. benchmark interest rate for hedge accounting purposes. The Firm adopted this update on a prospective basis for qualifying new or redesignated hedging relationships. This update did not impact the Firm's pre-existing hedges.

### 3. Fair Values

#### Recurring Fair Value Measurements

##### Assets and Liabilities Measured at Fair Value on a Recurring Basis

<i>\$ in millions</i>	At March 31, 2019				
	Level 1	Level 2	Level 3	Netting <sup>1</sup>	Total
<b>Assets at fair value</b>					
Trading assets:					
U.S. Treasury and agency securities	\$ 47,877	\$ 22,821	\$ 7	\$	\$ 70,705
Other sovereign government obligations	29,063	4,890	5		33,958
State and municipal securities		3,175	12		3,187
MABS		1,864	301		2,165
Loans and lending commitments <sup>2</sup>		5,012	6,343		11,355
Corporate and other debt		20,014	1,061		21,075
Corporate equities <sup>3</sup>	88,020	527	152		88,699
Derivative and other contracts:					
Interest rate	3,238	166,248	998		170,484
Credit		5,696	485		6,181
Foreign exchange	22	60,900	59		60,981
Equity	1,621	38,006	1,293		40,920
Commodity and other	593	7,002	2,902		10,497
Netting <sup>1</sup>	(3,633)	(212,585)	(873)	(43,036)	(260,127)
Total derivative and other contracts	1,841	65,267	4,864	(43,036)	28,936
Investments <sup>4</sup>	369	149	974		1,492
Physical commodities		441			441
Total trading assets <sup>4</sup>	167,170	124,160	13,719	(43,036)	262,013
Investment securities - AFS	32,527	29,114			61,641
Securities purchased under agreements to resell		5			5
<b>Total assets at fair value</b>	<b>\$ 199,697</b>	<b>\$ 153,279</b>	<b>\$ 13,719</b>	<b>\$ (43,036)</b>	<b>\$ 323,659</b>

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

<i>\$ in millions</i>	At March 31, 2019				
	Level 1	Level 2	Level 3	Netting <sup>1</sup>	Total
<b>Liabilities at fair value</b>					
Deposits	\$	\$ 593	\$ 99	\$	\$ 692
Trading liabilities:					
U.S. Treasury and agency securities	13,169	251			13,420
Other sovereign government obligations	25,301	1,970			27,271
Corporate and other debt		9,030	23		9,053
Corporate equities <sup>3</sup>	64,961	94	20		65,075
Derivative and other contracts:					
Interest rate	3,271	155,949	447		159,667
Credit		6,019	746		6,765
Foreign exchange	11	59,864	54		59,929
Equity	1,393	40,912	3,053		45,358
Commodity and other	732	5,444	796		6,972
Netting <sup>1</sup>	(3,633)	(212,585)	(873)	(31,854)	(248,945)
Total derivative and other contracts	1,774	55,603	4,223	(31,854)	29,746
Total trading liabilities	105,205	66,948	4,266	(31,854)	144,565
Securities sold under agreements to repurchase					
		622			622
Other secured financings		4,130	153		4,283
Borrowings		52,689	3,775		56,464
<b>Total liabilities at fair value</b>	<b>\$ 105,205</b>	<b>\$ 124,982</b>	<b>\$ 8,293</b>	<b>\$ (31,854)</b>	<b>\$ 206,626</b>

<i>\$ in millions</i>	At December 31, 2018				
	Level 1	Level 2	Level 3	Netting <sup>1</sup>	Total
<b>Assets at fair value</b>					
Trading assets:					
U.S. Treasury and agency securities	\$ 38,767	\$ 29,594	\$ 54	\$	\$ 68,415
Other sovereign government obligations	28,395	5,529	17		33,941
State and municipal securities		3,161	148		3,309
MABS		2,154	354		2,508
Loans and lending commitments <sup>2</sup>		4,055	6,870		10,925
Corporate and other debt		18,129	1,076		19,205
Corporate equities <sup>3</sup>	93,626	522	95		94,243
Derivative and other contracts:					
Interest rate	2,793	155,027	1,045		158,865
Credit		5,707	421		6,128
Foreign exchange	62	63,023	161		63,246

Edgar Filing: MORGAN STANLEY - Form 10-Q

Equity	1,256	45,596	1,022		47,874
Commodity and other	963	8,517	2,992		12,472
Netting <sup>1</sup>	(4,151)	(210,190)	(896)	(44,175)	(259,412)
Total derivative and other contracts	923	67,680	4,745	(44,175)	29,173
Investments <sup>4</sup>	412	293	757		1,462
Physical commodities		536			536
Total trading assets <sup>4</sup>	162,123	131,653	14,116	(44,175)	263,717
Investment securities AFS	36,399	24,662			61,061
Intangible assets		5			5
<b>Total assets at fair value</b>	<b>\$ 198,522</b>	<b>\$ 156,320</b>	<b>\$ 14,116</b>	<b>\$(44,175)</b>	<b>\$ 324,783</b>

At December 31, 2018

<i>\$ in millions</i>	Level 1	Level 2	Level 3	Netting <sup>1</sup>	Total
<b>Liabilities at fair value</b>					
Deposits	\$	\$ 415	\$ 27	\$	\$ 442
Trading liabilities:					
U.S. Treasury and agency securities	11,272	543			11,815
Other sovereign government obligations	21,391	1,454			22,845
Corporate and other debt		8,550	1		8,551
Corporate equities <sup>3</sup>	56,064	199	15		56,278
Derivative and other contracts:					
Interest rate	2,927	142,746	427		146,100
Credit		5,772	381		6,153
Foreign exchange	41	63,379	86		63,506
Equity	1,042	47,091	2,507		50,640
Commodity and other	1,228	6,872	940		9,040
Netting <sup>1</sup>	(4,151)	(210,190)	(896)	(32,944)	(248,181)
Total derivative and other contracts	1,087	55,670	3,445	(32,944)	27,258
Total trading liabilities	89,814	66,416	3,461	(32,944)	126,747
Securities sold under agreements to repurchase					
		812			812
Other secured financings		5,037	208		5,245
Borrowings		47,378	3,806		51,184
<b>Total liabilities at fair value</b>	<b>\$ 89,814</b>	<b>\$ 120,058</b>	<b>\$ 7,502</b>	<b>\$(32,944)</b>	<b>\$ 184,430</b>

MABS Mortgage and asset-backed securities

1. For positions with the same counterparty classified in different levels of the fair value hierarchy, both counterparty netting and cash collateral netting are included in the column titled Netting. Positions classified within the same level that are with the same counterparty are netted within the column for that level. For further information on derivative instruments and hedging activities, see Note 4.
2. For a further breakdown by type, see the following Loans and Lending Commitments at Fair Value table.
3. For trading purposes, the Firm holds or sells short equity securities issued by entities in diverse industries and of varying sizes.
4. Amounts exclude certain investments that are measured based on NAV per share, which are not classified in the fair value hierarchy. For additional disclosure about such investments, see Net Asset Value Measurements Fund Interests herein.

**Breakdown of Loans and Lending Commitments at Fair Value**

<i>\$ in millions</i>	<b>At March 31, 2019</b>	<b>At December 31, 2018</b>
Corporate	<b>\$ 8,307</b>	<b>\$ 9,171</b>
Residential real estate	<b>1,282</b>	<b>1,153</b>
Commercial real estate	<b>1,766</b>	<b>601</b>
Total	<b>\$ 11,355</b>	<b>\$ 10,925</b>

**Unsettled Fair Value of Futures Contracts<sup>1</sup>**

<i>\$ in millions</i>	<b>At March 31, 2019</b>	<b>At December 31, 2018</b>
Customer and other receivables, net	<b>\$ 727</b>	<b>\$ 615</b>

1. These contracts are primarily Level 1, actively traded, valued based on quoted prices from the exchange and are excluded from the previous recurring fair value tables.

For a description of the valuation techniques applied to the Firm's major categories of assets and liabilities measured at fair value on a recurring basis, see Note 3 to the financial statements in the 2018 Form 10-K. During the current quarter, there were no significant revisions made to the Firm's valuation techniques.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Rollforward of Level 3 Assets and Liabilities Measured at Fair Value on a Recurring Basis**

<i>\$ in millions</i>	Three Months Ended	
	2019	March 31, 2018
<b>Assets at Fair value</b>		
<b>U.S. Treasury and agency securities</b>		
Beginning balance	\$ 54	\$
Sales	(50)	
Net transfers	3	
Ending balance	\$ 7	\$
Unrealized gains (losses)	\$	\$
<b>Other sovereign government obligations</b>		
Beginning balance	\$ 17	\$ 1
Purchases	2	7
Sales	(2)	
Net transfers	(12)	(1)
Ending balance	\$ 5	\$ 7
Unrealized gains (losses)	\$	\$
<b>State and municipal securities</b>		
Beginning balance	\$ 148	\$ 8
Realized and unrealized gains (losses)	1	
Purchases	10	1
Sales	(44)	(7)
Net transfers	(103)	
Ending balance	\$ 12	\$ 2
Unrealized gains (losses)	\$ 1	\$
<b>MABS</b>		
Beginning balance	\$ 354	\$ 423
Realized and unrealized gains (losses)	(7)	77
Purchases	19	64
Sales	(83)	(238)
Settlements	(3)	(16)
Net transfers	21	32
Ending balance	\$ 301	\$ 342
Unrealized gains (losses)	\$ (14)	\$ 2

**Loans and lending commitments**

Beginning balance	\$	6,870	\$	5,945
Realized and unrealized gains (losses)				28
Purchases and originations		1,255		3,740
Sales		(108)		(283)
Settlements		(820)		(1,218)
Net transfers		(854)		(84)
Ending balance	\$	6,343	\$	8,128
Unrealized gains (losses)	\$	(7)	\$	(9)

**Corporate and other debt**

Beginning balance	\$	1,076	\$	701
Realized and unrealized gains (losses)		43		1
Purchases		204		350
Sales		(127)		(243)
Settlements		(3)		
Net transfers		(132)		5
Ending balance	\$	1,061	\$	814
Unrealized gains (losses)	\$	41	\$	(1)

Three Months Ended

<i>\$ in millions</i>	March 31,			
	2019	2018		
<b>Corporate equities</b>				
Beginning balance	\$	95	\$	166
Realized and unrealized gains (losses)		6		
Purchases		51		166
Sales		(9)		(132)
Net transfers		9		33
Ending balance	\$	152	\$	233
Unrealized gains (losses)	\$	7	\$	(9)
<b>Investments</b>				
Beginning balance	\$	757	\$	1,020
Realized and unrealized gains (losses)		10		44
Purchases		10		21
Sales		(4)		(78)
Net transfers		201		5
Ending balance	\$	974	\$	1,012
Unrealized gains (losses)	\$	14	\$	22
<b>Net derivative and other contracts:</b>				
<b>Interest rate</b>				
Beginning balance	\$	618	\$	1,218
Realized and unrealized gains (losses)		(48)		52
Purchases		24		32
Issuances		(19)		(41)
Settlements		(12)		(81)
Net transfers		(12)		(510)
Ending balance	\$	551	\$	670
Unrealized gains (losses)	\$	(43)	\$	75

<b>Credit</b>			
Beginning balance	\$	40	\$ 41
Realized and unrealized gains (losses)		<b>162</b>	(107)
Purchases		<b>26</b>	
Issuances		<b>(442)</b>	
Settlements		<b>(33)</b>	38
Net transfers		<b>(14)</b>	(2)
Ending balance	\$	<b>(261)</b>	\$ (30)
Unrealized gains (losses)	\$	<b>167</b>	\$ (109)
<b>Foreign exchange</b>			
Beginning balance	\$	75	\$ (112)
Realized and unrealized gains (losses)		<b>(113)</b>	57
Purchases		<b>1</b>	
Issuances			(31)
Settlements		<b>8</b>	33
Net transfers		<b>34</b>	20
Ending balance	\$	<b>5</b>	\$ (33)
Unrealized gains (losses)	\$	<b>3</b>	\$ (9)
<b>Equity</b>			
Beginning balance	\$	(1,485)	\$ 1,208
Realized and unrealized gains (losses)		<b>(191)</b>	356
Purchases		<b>34</b>	142
Issuances		<b>(193)</b>	(799)
Settlements		<b>139</b>	159
Net transfers		<b>(64)</b>	(51)
Ending balance	\$	<b>(1,760)</b>	\$ 1,015
Unrealized gains (losses)	\$	<b>(203)</b>	\$ 315



**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

<i>\$ in millions</i>	Three Months Ended March 31,	
	<b>2019</b>	2018
<b>Commodity and other</b>		
Beginning balance	\$ 2,052	\$ 1,446
Realized and unrealized gains (losses)	43	217
Purchases	5	13
Issuances	(1)	(6)
Settlements	(81)	(57)
Net transfers	88	47
Ending balance	\$ 2,106	\$ 1,660
Unrealized gains (losses)	\$ (25)	\$ 149
<b>Liabilities at Fair Value</b>		
<b>Deposits</b>		
Beginning balance	\$ 27	\$ 47
Realized and unrealized losses (gains)	6	(1)
Issuances	24	9
Settlements	(1)	(1)
Net transfers	43	(10)
Ending balance	\$ 99	\$ 44
Unrealized losses (gains)	\$ 6	\$ (1)
<b>Nonderivative trading liabilities</b>		
Beginning balance	\$ 16	\$ 25
Realized and unrealized losses (gains)	(1)	(4)
Purchases	(6)	(7)
Sales	23	15
Net transfers	11	10
Ending balance	\$ 43	\$ 39
Unrealized losses (gains)	\$ (1)	\$ (4)
<b>Securities sold under agreements to repurchase</b>		
Beginning balance	\$	\$ 150
Net transfers		(150)
Ending balance	\$	\$
Unrealized losses (gains)	\$	\$
<b>Other secured financings</b>		
Beginning balance	\$ 208	\$ 239
Realized and unrealized losses (gains)	4	(13)
Issuances		4
Settlements	(7)	(10)

Net transfers	(52)	
Ending balance	\$ 153	\$ 220
Unrealized losses (gains)	\$ 4	\$ (13)

**Borrowings**

Beginning balance	\$ 3,806	\$ 2,984
Realized and unrealized losses (gains)	287	(102)
Issuances	264	640
Settlements	(115)	(83)
Net transfers	(467)	187
Ending balance	\$ 3,775	\$ 3,626
Unrealized losses (gains)	\$ 276	\$ (99)
Portion of Unrealized losses (gains) recorded in OCI Change in net DVA	59	(44)

Level 3 instruments may be hedged with instruments classified in Level 1 and Level 2. The realized and unrealized gains (losses) for assets and liabilities within the Level 3 category presented in the previous tables do not reflect the

related realized and unrealized gains (losses) on hedging instruments that have been classified by the Firm within the Level 1 and/or Level 2 categories.

The unrealized gains (losses) during the period for assets and liabilities within the Level 3 category may include changes in fair value during the period that were attributable to both observable and unobservable inputs. Total realized and unrealized gains (losses) are primarily included in Trading revenues in the income statements.

Additionally, in the previous tables, consolidations of VIEs are included in Purchases and deconsolidations of VIEs are included in Settlements.

**Significant Unobservable Inputs Used in Recurring and Nonrecurring Level 3 Fair Value Measurements****Valuation Techniques and Unobservable Inputs**

<i>\$ in millions, except inputs</i>	Balance / Range (Average <sup>1</sup> )	
	At March 31, 2019	At December 31, 2018
<b>Assets Measured at Fair Value on a Recurring Basis</b>		
<b>MABS</b>	\$ 301	\$ 354
Comparable pricing:		
Bond price	1 to 91 points (37 points)	0 to 97 points (38 points)
<b>Loans and lending commitments</b>	\$ 6,343	\$ 6,870
Margin loan model:		
Discount rate	1% to 6% (2%)	1% to 7% (2%)
Volatility skew	18% to 57% (25%)	19% to 56% (28%)
Credit Spread	11 to 62 bps (27 bps)	14 to 90 bps (36 bps)
Comparable pricing:		
Loan price	85 to 104 points (98 points)	60 to 101 points (95 points)
<b>Corporate and other debt</b>	\$ 1,061	\$ 1,076
Comparable pricing:		
Bond price	12 to 100 points (72 points)	12 to 100 points (72 points)
Discounted cash flow:		
Recovery rate	27%	20%

Edgar Filing: MORGAN STANLEY - Form 10-Q

Discount rate		N/M		15% to 21% (16%)
Option model:				
At the money volatility			24% to 70% (56%)	24% to 78% (50%)
<b>Corporate equities</b>	\$		<b>152</b>	\$95
Comparable pricing:				
Equity price			100%	100%
<b>Investments</b>	\$		<b>974</b>	\$ 757
Discounted cash flow:				
WACC			9% to 16% (11%)	9% to 15% (10%)
Exit multiple			9 to 10 times (10 times)	7 to 10 times (10 times)
Market approach:				
EBITDA multiple			5 to 24 times (10 times)	6 to 24 times (12 times)
Comparable pricing:				
Equity price			75% to 100% (99%)	75% to 100% (96%)
<b>Net derivative and other contracts:</b>				
<b>Interest rate</b>	\$		<b>551</b>	\$ 618
Option model:				
IR volatility skew			23% to 98% (59% / 61%)	22% to 95% (48% / 51%)
Inflation volatility			22% to 62% (42% / 39%)	23% to 65% (44% / 40%)
IR curve			1%	1%

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

<i>\$ in millions, except inputs</i>	Balance / Range (Average <sup>1</sup> )	
	At March 31, 2019	At December 31, 2018
<b>Credit</b>	\$ (261)	\$ 40
Comparable pricing:		
Cash-synthetic basis	<b>12 points</b>	8 to 9 points (9 points)
Bond price	<b>0 to 83 points (38 points)</b>	0 to 75 points (26 points)
Credit spread	<b>227 to 584 bps (307 bps)</b>	246 to 499 bps (380 bps)
Funding spread	<b>42 to 112 bps (91 bps)</b>	47 to 98 bps (93 bps)
Correlation model:		
Credit correlation	<b>36% to 68% (42%)</b>	36% to 69% (44%)
<b>Foreign exchange<sup>2</sup></b>	\$ 5	\$ 75
Option model:		
IR FX correlation	<b>5% to 57% (36% / 36%)</b>	53% to 56% (55% / 55%)
IR volatility skew	<b>23% to 98% (59% / 61%)</b>	22% to 95% (48% / 51%)
Contingency probability	<b>80% to 95% (90% / 90%)</b>	90% to 95% (93% / 95%)
<b>Equity<sup>2</sup></b>	\$ (1,760)	\$ (1,485)
Option model:		
At the money volatility	<b>6% to 69% (36%)</b>	17% to 63% (38%)
Volatility skew	<b>-2% to 0% (-1%)</b>	-2% to 0% (-1%)
Equity correlation	<b>5% to 96% (65%)</b>	5% to 96% (71%)
FX correlation	<b>-60% to 55% (-21%)</b>	-60% to 55% (-26%)
IR correlation	<b>-7% to 45% (16% / 13%)</b>	-7% to 45% (15% / 12%)
<b>Commodity and other</b>	\$ 2,106	\$ 2,052
Option model:		
Forward power price	<b>\$ 4 to \$172 (\$30) per MWh</b>	\$ 3 to \$185 (\$31) per MWh
Commodity volatility	<b>7% to 130% (16%)</b>	7% to 187% (17%)
Cross-commodity correlation	<b>5% to 99% (93%)</b>	5% to 99% (93%)
<b>Liabilities Measured at Fair Value on a Recurring Basis</b>		
<b>Deposits</b>	\$ 99	\$ 27
Option Model		
At the money volatility	<b>15% to 42% (21%)</b>	N/M
<b>Other secured financings</b>	\$ 153	\$ 208
Discounted cash flow:		
Funding spread	<b>112 to 205 bps (158 bps)</b>	103 to 193 bps (148 bps)
Option model:		

Volatility skew		N/M		-1%
At the money volatility		<b>10% to 40% (26%)</b>		10% to 40% (25%)
<b>Borrowings</b>	\$	<b>3,775</b>	\$	3,806
Option model:				
At the money volatility		<b>6% to 34% (21%)</b>		5% to 35% (22%)
Volatility skew		<b>-2% to 0% (0%)</b>		-2% to 0% (0%)
Equity correlation		<b>38% to 98% (81%)</b>		45% to 98% (85%)
Equity - FX correlation		<b>-55% to 30% (-27%)</b>		-75% to 50% (-27%)
IR Correlation		N/M		58% to 97% (85% / 91%)
IR FX Correlation		<b>27% to 58% (39% / 34%)</b>		28% to 58% (44% / 44%)

**Nonrecurring Fair Value Measurement**

<b>Loans</b>	\$	<b>1,166</b>	\$	1,380
Corporate loan model:				
Credit spread		<b>72 to 366 bps (150 bps)</b>		97 to 434 bps (181 bps)
Warehouse model:				
Credit spread		<b>262 to 309 bps (299 bps)</b>		223 to 313 bps (247 bps)
Points	Percentage of par			

IR Interest rate

FX Foreign exchange

1. Amounts represent weighted averages except where simple averages and the median of the inputs are more relevant.
2. Includes derivative contracts with multiple risks (*i.e.*, hybrid products).

The previous tables provide information for each major category of assets and liabilities measured at fair value on a recurring and nonrecurring basis with a significant Level 3 balance. The level of aggregation and breadth of products cause the range of inputs to be wide and not evenly distributed across the inventory. Further, the range of unobservable inputs may differ across firms in the financial services industry because of diversity in the types of products included in each firm's inventory. There are no predictable relationships between multiple significant unobservable inputs attributable to a given valuation technique. A single amount is disclosed when there is no significant difference between the minimum, maximum and average.

For a description of the Firm's significant unobservable inputs and qualitative information about the effect of hypothetical changes in the values of those inputs, see Note 3 to the financial statements in the 2018 Form 10-K. During the current quarter, there were no significant revisions made to the descriptions of the Firm's significant unobservable inputs.

**Net Asset Value Measurements****Fund Interests**

\$ in millions	At March 31, 2019		At December 31, 2018	
	Carrying Value	Commitment	Carrying Value	Commitment
Private equity	\$ 1,455	\$ 314	\$ 1,374	\$ 316
Real estate	1,248	149	1,105	161
Hedge <sup>1</sup>	102	4	103	4

**Total** **\$2,805** \$ **467** \$2,582 \$ 481

1. Investments in hedge funds may be subject to initial period lock-up or gate provisions, which restrict an investor from withdrawing from the fund during a certain initial period or restrict the redemption amount on any redemption date, respectively.

For a description of the Firm's investments in private equity funds, real estate funds and hedge funds, which are measured based on NAV, see Note 3 to the financial statements in the 2018 Form 10-K.

Amounts in the previous table represent the Firm's carrying value of general and limited partnership interests in fund investments, as well as any carried interest. The carrying amounts are measured based on the NAV of the fund taking into account the distribution terms applicable to the interest held. This same measurement applies whether the fund investments are accounted for under the equity method or fair value.

See Note 11 for information regarding general partner guarantees, which include potential obligations to return performance-based fees in the form of carried interest previously received. See Note 18 for information regarding carried interest at risk of reversal.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Nonredeemable Funds by Contractual Maturity**

<i>\$ in millions</i>	Carrying Value at March 31, 2019	
	Private Equity	Real Estate
Less than 5 years	\$ 705	\$ 634
5-10 years	723	555
Over 10 years	27	59
<b>Total</b>	<b>\$ 1,455</b>	<b>\$ 1,248</b>

**Fair Value Option**

The Firm elected the fair value option for certain eligible instruments that are risk managed on a fair value basis to mitigate income statement volatility caused by measurement basis differences between the elected instruments and their associated risk management transactions or to eliminate the complexities of applying certain accounting models.

**Borrowings Measured at Fair Value on a Recurring Basis**

<i>\$ in millions</i>	At	At
	March 31, 2019	December 31, 2018
<b>Business Unit Responsible for Risk Management</b>		
Equity	\$ 27,807	\$ 24,494
Interest rates	23,945	22,343
Commodities	3,209	2,735
Credit	981	856
Foreign exchange	522	756
<b>Total</b>	<b>\$ 56,464</b>	<b>\$ 51,184</b>

**Earnings Impact of Borrowings under the Fair Value Option**

<i>\$ in millions</i>	Three Months Ended March 31,	
	2019	2018
Trading revenues	\$ (2,903)	\$ 26
Interest expense	(93)	(102)

<b>Net revenues<sup>1</sup></b>	<b>\$ (2,996)</b>	<b>\$ (76)</b>
---------------------------------	-------------------	----------------

1. Amounts do not reflect any gains or losses from related economic hedges.

Gains (losses) are mainly attributable to movements in the reference price or index, interest rates or foreign exchange rates.

### Gains (Losses) Due to Changes in Instrument-Specific Credit Risk

<i>\$ in millions</i>	Three Months Ended March 31,			
	2019		2018	
	Trading Revenues	OCI	Trading Revenues	OCI
Borrowings	\$ (4)	\$ (816)	\$ (15)	\$ 593
Loans and other debt <sup>1</sup>	93		81	
Lending commitments	(1)		2	
Other		(4)		2
		<b>At</b>		<b>At</b>
		<b>March 31,</b>		<b>December 31,</b>
<i>\$ in millions</i>		<b>2019</b>		<b>2018</b>
Cumulative pre-tax DVA gain (loss) recognized in AOCI		\$ (648)		\$ 172

1. Loans and other debt instrument-specific credit gains (losses) were determined by excluding the non-credit components of gains and losses.

### Excess of Contractual Principal Amount Over Fair Value

<i>\$ in millions</i>	At	At
	March 31, 2019	December 31, 2018
Loans and other debt <sup>1</sup>	\$ 13,031	\$ 13,094
Nonaccrual loans <sup>1</sup>	10,677	10,831
Borrowings <sup>2</sup>	730	2,657

1. The majority of the difference between principal and fair value amounts for loans and other debt relates to distressed debt positions purchased at amounts well below par.

2. Borrowings in this table do not include structured notes where the repayment of the initial principal amount fluctuates based on changes in a reference price or index.

The previous tables exclude non-recourse debt from consolidated VIEs, liabilities related to failed sales of financial assets, pledged commodities and other liabilities that have specified assets attributable to them.

### Fair Value Loans on Nonaccrual Status



<i>\$ in millions</i>	<b>At March 31, 2019</b>	<b>At December 31, 2018</b>
Nonaccrual loans	<b>\$ 1,198</b>	<b>\$ 1,497</b>
Nonaccrual loans 90 or more days past due	<b>\$ 769</b>	<b>\$ 812</b>

45

March 2019 Form 10-Q

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Nonrecurring Fair Value Measurements****Carrying and Fair Values**

<i>\$ in millions</i>	<b>At March 31, 2019</b>		
	Level 2	Fair Value Level 3 <sup>1</sup>	Total
<b>Assets</b>			
Loans	\$ 2,160	\$ 1,166	\$ 3,326
Other assets Other investments		30	30
Other assets Premises, equipment and software			
<b>Total</b>	<b>\$ 2,160</b>	<b>\$ 1,196</b>	<b>\$ 3,356</b>
<b>Liabilities</b>			
Other liabilities and accrued expenses Lending commitments	\$ 186	\$ 49	\$ 235
<b>Total</b>	<b>\$ 186</b>	<b>\$ 49</b>	<b>\$ 235</b>

<i>\$ in millions</i>	<b>At December 31, 2018</b>		
	Level 2	Fair Value Level 3 <sup>1</sup>	Total
<b>Assets</b>			
Loans	\$ 2,307	\$ 1,380	\$ 3,687
Other assets Other investments	14	100	114
Other assets Premises, equipment and software			
<b>Total</b>	<b>\$ 2,321</b>	<b>\$ 1,480</b>	<b>\$ 3,801</b>
<b>Liabilities</b>			
Other liabilities and accrued expenses Lending commitments	\$ 292	\$ 65	\$ 357
<b>Total</b>	<b>\$ 292</b>	<b>\$ 65</b>	<b>\$ 357</b>

1. For significant Level 3 balances, refer to Significant Unobservable Inputs Used in Recurring and Nonrecurring Level 3 Fair Value Measurements section herein for details of the significant unobservable inputs used for nonrecurring fair value measurement.

**Gains (Losses) from Fair Value Remeasurements<sup>1</sup>**

<i>\$ in millions</i>	Three Months Ended March 31,	
	2019	2018
<b>Assets</b>		
Loans <sup>2</sup>	\$ 36	\$ 8
Other assets Other investments	(5)	
Other assets Premises, equipment and software	(2)	(8)
<b>Total</b>	\$ 29	\$
<b>Liabilities</b>		
Other liabilities and accrued expenses Lending commitments	\$ 67	\$ 6
<b>Total</b>	\$ 67	\$ 6

1. Gains and losses for Loans and Other assets Other investments are classified in Other revenues. For other items, gains and losses are recorded in Other revenues if the item is held for sale; otherwise they are recorded in Other expenses.
2. Nonrecurring changes in the fair value of loans and lending commitments were calculated as follows: for the held-for-investment category, based on the value of the underlying collateral; and for the held-for-sale category, based on recently executed transactions, market price quotations, valuation models that incorporate market observable inputs where possible, such as comparable loan or debt prices and CDS spread levels adjusted for any basis difference between cash and derivative instruments, or default recovery analysis where such transactions and quotations are unobservable.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Financial Instruments Not Measured at Fair Value****Carrying and Fair Values**

<i>\$ in millions</i>	Carrying Value	At March 31, 2019 Fair Value			Total
		Level 1	Level 2	Level 3	
<b>Financial assets</b>					
Cash and cash equivalents:					
Cash and due from banks	\$ 35,472	\$ 35,472	\$	\$	\$ 35,472
Interest bearing deposits with banks	14,498	14,498			14,498
Restricted cash	30,712	30,712			30,712
Investment securities HTM	36,303	21,270	14,218	536	36,024
Securities purchased under agreements to resell	96,565		95,841	714	96,555
Securities borrowed	138,891		138,891		138,891
Customer and other receivables <sup>1</sup>	47,854		44,907	2,836	47,743
Loans <sup>2</sup>	116,197		24,888	91,610	116,498
Other assets	461		461		461
<b>Financial liabilities</b>					
Deposits	\$ 179,039	\$	\$ 179,168	\$	\$ 179,168
Securities sold under agreements to repurchase	47,326		46,765	550	47,315
Securities loaned	12,508		12,508		12,508
Other secured financings	3,760		3,539	226	3,765
Customer and other payables <sup>1</sup>	189,712		189,712		189,712
Borrowings	134,227		137,906	30	137,936
	Commitment Amount				
<b>Lending commitments<sup>3</sup></b>	\$ 113,418	\$	\$ 947	\$ 294	\$ 1,241

<i>\$ in millions</i>	Carrying Value	At December 31, 2018 Fair Value			Total
		Level 1	Level 2	Level 3	

**Financial assets**

## Cash and cash equivalents:

Cash and due from banks	\$	30,541	\$	30,541	\$	\$	\$	30,541
Interest bearing deposits with banks		21,299		21,299				21,299
Restricted cash		35,356		35,356				35,356
Investment securities HTM		30,771		17,473		12,018	474	29,965
Securities purchased under agreements to resell		98,522				97,611	866	98,477
Securities borrowed		116,313				116,312		116,312
Customer and other receivables <sup>1</sup>		47,972				44,620	3,219	47,839
Loans <sup>2</sup>		115,579				25,604	90,121	115,725
Other assets		461				461		461

**Financial liabilities**

Deposits	\$	187,378	\$		\$	187,372	\$	187,372		
Securities sold under agreements to repurchase		48,947				48,385	525	48,910		
Securities loaned		11,908				11,906		11,906		
Other secured financings		4,221				3,233	994	4,227		
Customer and other payables <sup>1</sup>		176,561				176,561		176,561		
Borrowings		138,478				140,085	30	140,115		
				Commitment Amount						
<b>Lending commitments<sup>3</sup></b>	\$	104,844	\$		\$	1,249	\$	321	\$	1,570

1. Accrued interest and dividend receivables and payables where carrying value approximates fair value have been excluded.

2. Amounts include loans measured at fair value on a nonrecurring basis.

3. Represents Lending Commitments accounted for as Held for Investment and Held for Sale. For a further discussion on lending commitments, see Note 11.

The previous tables exclude certain financial instruments such as equity method investments and all non-financial assets and liabilities such as the value of the long-term relationships with the Firm's deposit customers.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****4. Derivative Instruments and Hedging Activities****Fair Values of Derivative Contracts***At March 31, 2019*

<i>\$ in millions</i>	<b>Assets</b>			Total
	Bilateral OTC	Cleared OTC	Exchange- Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 489	\$ 1	\$	\$ 490
Foreign exchange	107	14		121
Total	596	15		611
<b>Not designated as accounting hedges</b>				
Interest rate	164,693	4,602	699	169,994
Credit	4,327	1,854		6,181
Foreign exchange	59,462	1,336	62	60,860
Equity	21,593		19,327	40,920
Commodity and other	9,011		1,486	10,497
Total	259,086	7,792	21,574	288,452
<b>Total gross derivatives</b>	<b>\$ 259,682</b>	<b>\$ 7,807</b>	<b>\$ 21,574</b>	<b>\$ 289,063</b>
<b>Amounts offset</b>				
Counterparty netting	(194,262)	(6,453)	(20,683)	(221,398)
Cash collateral netting	(37,487)	(1,242)		(38,729)
<b>Total in Trading assets</b>	<b>\$ 27,933</b>	<b>\$ 112</b>	<b>\$ 891</b>	<b>\$ 28,936</b>
<b>Amounts not offset<sup>1</sup></b>				
Financial instruments collateral	(12,603)			(12,603)
Other cash collateral	(59)			(59)
<b>Net amounts</b>	<b>\$ 15,271</b>	<b>\$ 112</b>	<b>\$ 891</b>	<b>\$ 16,274</b>
Net amounts for which master netting or collateral agreements are not in place or may not be legally enforceable				\$ 2,118

<i>\$ in millions</i>	<b>Liabilities</b>			Total
	Bilateral OTC	Cleared OTC	Exchange- Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 88	\$ 3	\$	\$ 91

Foreign exchange	17	32		49
Total	105	35		140
<b>Not designated as accounting hedges</b>				
Interest rate	155,653	3,395	528	159,576
Credit	4,631	2,134		6,765
Foreign exchange	58,577	1,302	1	59,880
Equity	25,681		19,677	45,358
Commodity and other	5,514		1,458	6,972
Total	250,056	6,831	21,664	278,551
<b>Total gross derivatives</b>	<b>\$ 250,161</b>	<b>\$ 6,866</b>	<b>\$ 21,664</b>	<b>\$ 278,691</b>
<b>Amounts offset</b>				
Counterparty netting	(194,262)	(6,453)	(20,683)	(221,398)
Cash collateral netting	(27,167)	(380)		(27,547)
<b>Total in Trading liabilities</b>	<b>\$ 28,732</b>	<b>\$ 33</b>	<b>\$ 981</b>	<b>\$ 29,746</b>
<b>Amounts not offset<sup>1</sup></b>				
Financial instruments collateral	(8,466)		(392)	(8,858)
Other cash collateral	(48)	(30)		(78)
<b>Net amounts</b>	<b>\$ 20,218</b>	<b>\$ 3</b>	<b>\$ 589</b>	<b>\$ 20,810</b>
Net amounts for which master netting or collateral agreements are not in place or may not be legally enforceable				\$ 3,116
<i>At December 31, 2018</i>				

<i>\$ in millions</i>	Assets			Total
	Bilateral OTC	Cleared OTC	Exchange-Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 512	\$ 1	\$	\$ 513
Foreign exchange	27	8		35
Total	539	9		548
<b>Not designated as accounting hedges</b>				
Interest rate	153,768	3,887	697	158,352
Credit	4,630	1,498		6,128
Foreign exchange	61,846	1,310	55	63,211
Equity	24,590		23,284	47,874
Commodity and other	10,538		1,934	12,472
Total	255,372	6,695	25,970	288,037
<b>Total gross derivatives</b>	<b>\$ 255,911</b>	<b>\$ 6,704</b>	<b>\$ 25,970</b>	<b>\$ 288,585</b>
<b>Amounts offset</b>				
Counterparty netting	(190,220)	(5,260)	(24,548)	(220,028)
Cash collateral netting	(38,204)	(1,180)		(39,384)
<b>Total in Trading assets</b>	<b>\$ 27,487</b>	<b>\$ 264</b>	<b>\$ 1,422</b>	<b>\$ 29,173</b>
<b>Amounts not offset<sup>1</sup></b>				
Financial instruments collateral	(12,467)			(12,467)
Other cash collateral	(31)			(31)
<b>Net amounts</b>	<b>\$ 14,989</b>	<b>\$ 264</b>	<b>\$ 1,422</b>	<b>\$ 16,675</b>
Net amounts for which master netting or collateral agreements are not in place or may not be legally enforceable				\$ 2,206

\$ in millions	Liabilities			Total
	Bilateral OTC	Cleared OTC	Exchange- Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 176	\$	\$	\$ 176
Foreign exchange	62	24		86
Total	238	24		262
<b>Not designated as accounting hedges</b>				
Interest rate	142,592	2,669	663	145,924
Credit	4,545	1,608		6,153
Foreign exchange	62,099	1,302	19	63,420
Equity	27,119		23,521	50,640
Commodity and other	6,983		2,057	9,040
Total	243,338	5,579	26,260	275,177
<b>Total gross derivatives</b>	<b>\$ 243,576</b>	<b>\$ 5,603</b>	<b>\$ 26,260</b>	<b>\$ 275,439</b>
<b>Amounts offset</b>				
Counterparty netting	(190,220)	(5,260)	(24,548)	(220,028)
Cash collateral netting	(27,860)	(293)		(28,153)
<b>Total in Trading liabilities</b>	<b>\$ 25,496</b>	<b>\$ 50</b>	<b>\$ 1,712</b>	<b>\$ 27,258</b>
<b>Amounts not offset<sup>1</sup></b>				
Financial instruments collateral	(4,709)		(766)	(5,475)
Other cash collateral	(53)	(1)		(54)
<b>Net amounts</b>	<b>\$ 20,734</b>	<b>\$ 49</b>	<b>\$ 946</b>	<b>\$ 21,729</b>
Net amounts for which master netting or collateral agreements are not in place or may not be legally enforceable				\$ 4,773

1. Amounts relate to master netting agreements and collateral agreements that have been determined by the Firm to be legally enforceable in the event of default but where certain other criteria are not met in accordance with applicable offsetting accounting guidance.

See Note 3 for information related to the unsettled fair value of futures contracts not designated as accounting hedges, which are excluded from the previous tables.



**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Notionals of Derivative Contracts***At March 31, 2019*

<i>\$ in billions</i>	<b>Assets</b>			Total
	Bilateral OTC	Cleared OTC	Exchange- Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 15	\$ 83	\$	\$ 98
Foreign exchange	10	1		11
Total	25	84		109
<b>Not designated as accounting hedges</b>				
Interest rate	4,785	7,900	1,042	13,727
Credit	139	74		213
Foreign exchange	2,731	104	13	2,848
Equity	455		367	822
Commodity and other	98		68	166
Total	8,208	8,078	1,490	17,776
<b>Total gross derivatives</b>	<b>\$ 8,233</b>	<b>\$ 8,162</b>	<b>\$ 1,490</b>	<b>\$ 17,885</b>

<i>\$ in billions</i>	<b>Liabilities</b>			Total
	Bilateral OTC	Cleared OTC	Exchange- Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 2	\$ 75	\$	\$ 77
Foreign exchange	2	1		3
Total	4	76		80
<b>Not designated as accounting hedges</b>				
Interest rate	4,956	7,059	880	12,895
Credit	156	84		240
Foreign exchange	2,748	102	12	2,862
Equity	410		558	968
Commodity and other	80		64	144
Total	8,350	7,245	1,514	17,109
<b>Total gross derivatives</b>	<b>\$ 8,354</b>	<b>\$ 7,321</b>	<b>\$ 1,514</b>	<b>\$ 17,189</b>

*At December 31, 2018*

<i>\$ in billions</i>	Assets			Total
	Bilateral OTC	Cleared OTC	Exchange- Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 15	\$ 52	\$	\$ 67
Foreign exchange	5	1		6
Total	20	53		73
<b>Not designated as accounting hedges</b>				
Interest rate	4,807	6,708	1,157	12,672
Credit	162	74		236
Foreign exchange	2,436	118	14	2,568
Equity	373		371	744
Commodity and other	97		67	164
Total	7,875	6,900	1,609	16,384
<b>Total gross derivatives</b>	<b>\$ 7,895</b>	<b>\$ 6,953</b>	<b>\$ 1,609</b>	<b>\$ 16,457</b>
<i>\$ in billions</i>	Liabilities			Total
	Bilateral OTC	Cleared OTC	Exchange- Traded	
<b>Designated as accounting hedges</b>				
Interest rate	\$ 2	\$ 107	\$	\$ 109
Foreign exchange	5	1		6
Total	7	108		115
<b>Not designated as accounting hedges</b>				
Interest rate	4,946	5,735	781	11,462
Credit	162	73		235
Foreign exchange	2,451	114	17	2,582
Equity	389		602	991
Commodity and other	72		65	137
Total	8,020	5,922	1,465	15,407
<b>Total gross derivatives</b>	<b>\$ 8,027</b>	<b>\$ 6,030</b>	<b>\$ 1,465</b>	<b>\$ 15,522</b>

The Firm believes that the notional amounts of derivative contracts generally overstate its exposure. In most circumstances notional amounts are only used as a reference point from which to calculate amounts owed between the parties to the contract. Furthermore, notional amounts do not reflect the benefit of legally enforceable netting arrangements or risk mitigating transactions.

For a discussion of the Firm's derivative instruments and hedging activities, see Note 4 to the financial statements in the 2018 Form 10-K.

### Gains (Losses) on Accounting Hedges

<i>\$ in millions</i>	Three Months Ended March 31,	
	2019	2018
<b>Fair Value Hedges Recognized in Interest Expense</b>		
Interest rate contracts	\$ 1,577	\$ (1,841)
Borrowings	(1,621)	1,852
<b>Net Investment Hedges Foreign exchange contracts</b>		

Recognized in OCI, net of tax	\$ 64	\$ (148)
Forward points excluded from hedge effectiveness testing		
Recognized in Interest income	35	7

**Fair Value Hedges Hedged Items**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
<b>Investment Securities AFS</b>		
Carrying amount <sup>2</sup> currently or previously hedged	\$ 413	\$ 201
<b>Borrowings</b>		
Carrying amount <sup>2</sup> currently or previously hedged	\$ 103,460	\$ 102,899
Basis adjustments included in carrying amount <sup>3</sup>	\$ (74)	\$ (1,689)

1. Amounts recognized in interest income and basis adjustments related to AFS securities were not material.

2. Carrying amount represents amortized cost basis.

3. Hedge accounting basis adjustments for Borrowings are primarily related to outstanding hedges.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Net Derivative Liabilities and Collateral Posted**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Net derivative liabilities with credit risk-related contingent features	\$ 18,373	\$ 16,403
Collateral posted	14,473	11,981

The previous table presents the aggregate fair value of certain derivative contracts that contain credit risk-related contingent features that are in a net liability position for which the Firm has posted collateral in the normal course of business.

**Incremental Collateral and Termination Payments upon Potential Future Ratings Downgrade**

<i>\$ in millions</i>	At March 31, 2019
One-notch downgrade	\$ 452
Two-notch downgrade	277
Bilateral downgrade agreements included in the amounts above <sup>1</sup>	\$ 685

1. Amount represents arrangements between the Firm and other parties where upon the downgrade of one party, the downgraded party must deliver collateral to the other party. These bilateral downgrade arrangements are used by the Firm to manage the risk of counterparty downgrades.

The additional collateral or termination payments that may be called in the event of a future credit rating downgrade vary by contract and can be based on ratings by either or both of Moody's Investors Service, Inc. (Moody's) and S&P Global Ratings. The previous table shows the future potential collateral amounts and termination payments that could be called or required by counterparties or exchange and clearing organizations in the event of one-notch or two-notch downgrade scenarios based on the relevant contractual downgrade triggers.

**Maximum Potential Payout/Notional of Credit Protection Sold<sup>1</sup>**

<i>\$ in millions</i>	Years to Maturity at March 31, 2019				Total
	< 1	1-3	3-5	Over 5	

<b>Single-name CDS</b>					
Investment grade	\$ 19,721	\$ 21,800	\$ 20,305	\$ 11,743	\$ 73,569
Non-investment grade	9,173	12,154	8,908	3,159	33,394
<b>Total</b>	<b>\$ 28,894</b>	<b>\$ 33,954</b>	<b>\$ 29,213</b>	<b>\$ 14,902</b>	<b>\$ 106,963</b>
<b>Index and basket CDS</b>					
Investment grade	\$ 4,886	\$ 9,022	\$ 36,038	\$ 22,143	\$ 72,089
Non-investment grade	5,608	5,482	10,281	14,131	35,502
<b>Total</b>	<b>\$ 10,494</b>	<b>\$ 14,504</b>	<b>\$ 46,319</b>	<b>\$ 36,274</b>	<b>\$ 107,591</b>
<b>Total CDS sold</b>	<b>\$ 39,388</b>	<b>\$ 48,458</b>	<b>\$ 75,532</b>	<b>\$ 51,176</b>	<b>\$ 214,554</b>
Other credit contracts				105	105
<b>Total credit protection sold</b>	<b>\$ 39,388</b>	<b>\$ 48,458</b>	<b>\$ 75,532</b>	<b>\$ 51,281</b>	<b>\$ 214,659</b>
CDS protection sold with identical protection purchased					\$ 199,507

Years to Maturity at December 31, 2018

<i>\$ in millions</i>	< 1	1-3	3-5	Over 5	Total
<b>Single-name CDS</b>					
Investment grade	\$ 22,297	\$ 23,876	\$ 19,469	\$ 7,844	\$ 73,486
Non-investment grade	10,135	11,061	9,020	861	31,077
<b>Total</b>	<b>\$ 32,432</b>	<b>\$ 34,937</b>	<b>\$ 28,489</b>	<b>\$ 8,705</b>	<b>\$ 104,563</b>
<b>Index and basket CDS</b>					
Investment grade	\$ 5,341	\$ 9,901	\$ 60,887	\$ 6,816	\$ 82,945
Non-investment grade	4,574	5,820	12,855	13,272	36,521
<b>Total</b>	<b>\$ 9,915</b>	<b>\$ 15,721</b>	<b>\$ 73,742</b>	<b>\$ 20,088</b>	<b>\$ 119,466</b>
<b>Total CDS sold</b>	<b>\$ 42,347</b>	<b>\$ 50,658</b>	<b>\$ 102,231</b>	<b>\$ 28,793</b>	<b>\$ 224,029</b>
Other credit contracts				116	116
<b>Total credit protection sold</b>	<b>\$ 42,347</b>	<b>\$ 50,658</b>	<b>\$ 102,231</b>	<b>\$ 28,909</b>	<b>\$ 224,145</b>
CDS protection sold with identical protection purchased					\$ 209,972
<b>Fair Value Asset (Liability) of Credit Protection Sold<sup>1</sup></b>					

<i>\$ in millions</i>	<b>At March 31, 2019</b>	<b>At December 31, 2018</b>
<b>Single-name CDS</b>		
Investment grade	\$ 401	\$ 118
Non-investment grade	(440)	(403)
<b>Total</b>	<b>\$ (39)</b>	<b>\$ (285)</b>
<b>Index and basket CDS</b>		
Investment grade	\$ 708	\$ 314
Non-investment grade	(460)	(1,413)
<b>Total</b>	<b>\$ 248</b>	<b>\$ (1,099)</b>
<b>Total CDS sold</b>	<b>\$ 209</b>	<b>\$ (1,384)</b>
Other credit contracts	(8)	(14)
<b>Total credit protection sold</b>	<b>\$ 201</b>	<b>\$ (1,398)</b>

1. Investment grade/non-investment grade determination is based on the internal credit rating of the reference obligation. Internal credit ratings serve as the Credit Risk Management Department's assessment of credit risk and the basis for a comprehensive credit limits framework used to control credit risk. The Firm uses quantitative models and judgement to estimate the various risk parameters related to each obligor.

#### Protection Purchased with CDS

	<b>At March 31, 2019</b>	
<i>\$ in millions</i>	Fair Value Asset (Liability)	Notional
Single name	<b>\$ (148)</b>	<b>\$ 116,753</b>
Index and basket	<b>(170)</b>	<b>105,819</b>
Tranched index and basket	<b>(475)</b>	<b>15,677</b>
<b>Total</b>	<b>\$ (793)</b>	<b>\$ 238,249</b>

	<b>At December 31, 2018</b>	
<i>\$ in millions</i>	Fair Value Asset (Liability)	Notional
Single name	<b>\$ 277</b>	<b>\$ 116,333</b>
Index and basket	<b>1,333</b>	<b>117,022</b>
Tranched index and basket	<b>(251)</b>	<b>13,524</b>
<b>Total</b>	<b>\$ 1,359</b>	<b>\$ 246,879</b>

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

The Firm enters into credit derivatives, principally CDS, under which it receives or provides protection against the risk of default on a set of debt obligations issued by a specified reference entity or entities. A majority of the Firm's counterparties for these derivatives are banks, broker-dealers, and insurance and other financial institutions.

The fair value amounts as shown in the previous tables are prior to cash collateral or counterparty netting. For further information on credit derivatives and other contracts, see Note 4 to the financial statements in the 2018 Form 10-K.

**5. Investment Securities****AFS and HTM Securities**

<i>\$ in millions</i>	At March 31, 2019			Fair Value
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	
<b>AFS securities</b>				
U.S. government and agency securities:				
U.S. Treasury securities	\$ 32,144	\$ 83	\$ 448	\$ 31,779
U.S. agency securities <sup>1</sup>	23,857	82	318	23,621
Total U.S. government and agency securities	56,001	165	766	55,400
Corporate and other debt:				
Agency CMBS	1,965	18	54	1,929
Non-agency CMBS	343		7	336
Corporate bonds	1,724	4	10	1,718
State and municipal securities	394	6		400
FFELP student loan ABS <sup>2</sup>	1,868	6	16	1,858
Total corporate and other debt	6,294	34	87	6,241
Total AFS securities	62,295	199	853	61,641
<b>HTM securities</b>				
U.S. government and agency securities:				
U.S. Treasury securities	21,349	172	251	21,270
U.S. agency securities <sup>1</sup>	14,424	46	252	14,218
Total U.S. government and agency securities	35,773	218	503	35,488
Corporate and other debt:				
Non-agency CMBS	530	7	1	536
Total HTM securities	36,303	225	504	36,024
<b>Total investment securities</b>	<b>\$ 98,598</b>	<b>\$ 424</b>	<b>\$ 1,357</b>	<b>\$ 97,665</b>

<i>\$ in millions</i>	At December 31, 2018			Fair Value
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	
<b>AFS securities</b>				
U.S. government and agency securities:				
U.S. Treasury securities	\$ 36,268	\$ 40	\$ 656	\$ 35,652
U.S. agency securities <sup>1</sup>	20,740	10	497	20,253
Total U.S. government and agency securities	57,008	50	1,153	55,905
Corporate and other debt:				
Agency CMBS	1,054		62	992
Non-agency CMBS	461		14	447
Corporate bonds	1,585		32	1,553
State and municipal securities	200	2		202
FFELP student loan ABS <sup>2</sup>	1,967	10	15	1,962
Total corporate and other debt	5,267	12	123	5,156
Total AFS securities	62,275	62	1,276	61,061
<b>HTM securities</b>				
U.S. government and agency securities:				
U.S. Treasury securities	17,832	44	403	17,473
U.S. agency securities <sup>1</sup>	12,456	8	446	12,018
Total U.S. government and agency securities	30,288	52	849	29,491
Corporate and other debt:				
Non-agency CMBS	483		9	474
Total HTM securities	30,771	52	858	29,965
Total investment securities	\$ 93,046	\$ 114	\$ 2,134	\$ 91,026

1. U.S. agency securities consist mainly of agency-issued debt, agency mortgage pass-through pool securities and CMOs.
2. Underlying loans are backed by a guarantee, ultimately from the U.S. Department of Education, of at least 95% of the principal balance and interest outstanding.



**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Investment Securities in an Unrealized Loss Position**

<i>\$ in millions</i>	<b>At March 31, 2019</b>					
	Less than 12 Months		12 Months or Longer		Total	
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
<b>AFS securities</b>						
U.S. government and agency securities:						
U.S. Treasury securities	\$ 124	\$	\$ 22,670	\$ 448	\$ 22,794	\$ 448
U.S. agency securities	3,641	29	13,307	289	16,948	318
Total U.S. government and agency securities	3,765	29	35,977	737	39,742	766
Corporate and other debt:						
Agency CMBS	64		802	54	866	54
Non-agency CMBS			336	7	336	7
Corporate bonds	276	1	818	9	1,094	10
FFELP student loan ABS	615	5	702	11	1,317	16
Total corporate and other debt	955	6	2,658	81	3,613	87
Total AFS securities	4,720	35	38,635	818	43,355	853
<b>HTM securities</b>						
U.S. government and agency securities:						
U.S. Treasury securities	99		9,495	251	9,594	251
U.S. agency securities	303	2	9,505	250	9,808	252
Total U.S. government and agency securities	402	2	19,000	501	19,402	503
Corporate and other debt:						
Non-agency CMBS	66	1	110		176	1
Total HTM securities	468	3	19,110	501	19,578	504
<b>Total investment securities</b>	<b>\$ 5,188</b>	<b>\$ 38</b>	<b>\$ 57,745</b>	<b>\$ 1,319</b>	<b>\$ 62,933</b>	<b>\$ 1,357</b>

<i>\$ in millions</i>	<b>At December 31, 2018</b>					
	Less than 12 Months		12 Months or Longer		Total	
	Fair Value	Gross Unrealized	Fair Value	Gross Unrealized	Fair Value	Gross Unrealized

Edgar Filing: MORGAN STANLEY - Form 10-Q

	Losses		Losses		Losses	
<b>AFS securities</b>						
U.S. government and agency securities:						
U.S. Treasury securities	\$ 19,937	\$ 541	\$ 5,994	\$ 115	\$ 25,931	\$ 656
U.S. agency securities	12,904	383	4,142	114	17,046	497
Total U.S. government and agency securities	32,841	924	10,136	229	42,977	1,153
Corporate and other debt:						
Agency CMBS	808	62			808	62
Non-agency CMBS			446	14	446	14
Corporate bonds	470	7	1,010	25	1,480	32
FFELP student loan ABS	1,366	15			1,366	15
Total corporate and other debt	2,644	84	1,456	39	4,100	123
Total AFS securities	35,485	1,008	11,592	268	47,077	1,276
<b>HTM securities</b>						
U.S. government and agency securities:						
U.S. Treasury securities			11,161	403	11,161	403
U.S. agency securities	410	1	10,004	445	10,414	446
Total U.S. government and agency securities	410	1	21,165	848	21,575	849
Corporate and other debt:						
Non-agency CMBS	206	1	216	8	422	9
Total HTM securities	616	2	21,381	856	21,997	858
<b>Total investment securities</b>	<b>\$ 36,101</b>	<b>\$ 1,010</b>	<b>\$ 32,973</b>	<b>\$ 1,124</b>	<b>\$ 69,074</b>	<b>\$ 2,134</b>

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

The Firm believes there are no securities in an unrealized loss position that are other-than-temporarily impaired after performing the analysis described in Note 2 to the financial statements in the 2018 Form 10-K. For AFS securities, the Firm does not intend to sell the securities and is not likely to be required to sell the securities prior to recovery of the amortized cost basis. Furthermore, for both AFS and HTM securities, the securities have not experienced credit losses as the unrealized losses reported in the previous table are primarily due to higher interest rates since those securities were purchased.

See Note 12 for additional information on securities issued by VIEs, including U.S. agency mortgage-backed securities, non-agency CMBS and FFELP student loan ABS.

**Investment Securities by Contractual Maturity**

	<b>At March 31, 2019</b>		
<i>\$ in millions</i>	Amortized Cost	Fair Value	Annualized Average Yield
<b>AFS securities</b>			
U.S. government and agency securities:			
U.S. Treasury securities:			
Due within 1 year	\$ 4,665	\$ 4,647	1.7%
After 1 year through 5 years	22,997	22,730	1.9%
After 5 years through 10 years	4,482	4,402	2.1%
Total	32,144	31,779	
U.S. agency securities:			
Due within 1 year	498	496	1.1%
After 1 year through 5 years	699	691	1.1%
After 5 years through 10 years	1,584	1,554	1.8%
After 10 years	21,076	20,880	2.4%
Total	23,857	23,621	
Total U.S. government and agency securities	56,001	55,400	2.1%
Corporate and other debt:			
Agency CMBS:			
After 1 year through 5 years	228	227	1.4%
After 5 years through 10 years	994	1,011	3.2%
After 10 years	743	691	1.6%
Total	1,965	1,929	
Non-agency CMBS:			
After 1 year through 5 years	36	35	2.5%

Edgar Filing: MORGAN STANLEY - Form 10-Q

After 10 years	307	301	2.3%
Total	343	336	
Corporate bonds:			
Due within 1 year	23	23	1.4%
After 1 year through 5 years	1,427	1,421	2.6%
After 5 years through 10 years	274	274	3.3%
Total	1,724	1,718	

At March 31, 2019

<i>\$ in millions</i>	Amortized Cost	Fair Value	Annualized Average Yield
State and municipal securities:			
After 5 years through 10 years	\$ 209	\$ 209	3.5%
After 10 Years	185	191	4.7%
Total	394	400	
FFELP student loan ABS:			
After 1 year through 5 years	78	77	0.8%
After 5 years through 10 years	418	411	0.8%
After 10 years	1,372	1,370	1.2%
Total	1,868	1,858	
Total corporate and other debt	6,294	6,241	2.2%
Total AFS securities	62,295	61,641	2.1%

**HTM securities**

U.S. government and agency securities:

U.S. Treasury securities:

Due within 1 year	774	771	1.4%
After 1 year through 5 years	9,504	9,525	2.4%
After 5 years through 10 years	9,987	9,953	2.3%
After 10 years	1,084	1,021	2.5%
Total	21,349	21,270	

U.S. agency securities:

After 5 years through 10 years	28	28	1.9%
After 10 years	14,396	14,190	2.7%
Total	14,424	14,218	
Total U.S. government and agency securities	35,773	35,488	2.5%

Corporate and other debt:

Non-agency CMBS:

Due within 1 year	61	61	4.4%
After 1 year through 5 years	86	86	4.8%
After 5 years through 10 years	344	350	4.1%
After 10 years	39	39	4.4%
Total corporate and other debt	530	536	4.3%
Total HTM securities	36,303	36,024	2.5%
<b>Total investment securities</b>	<b>\$ 98,598</b>	<b>\$ 97,665</b>	<b>2.3%</b>

**Gross Realized Gains (Losses) on Sales of AFS Securities**

<i>\$ in millions</i>	Three Months Ended	
	2019	March 31, 2018

Edgar Filing: MORGAN STANLEY - Form 10-Q

Gross realized gains	\$ 19	\$ 1
Gross realized (losses)	(9)	(1)
<b>Total<sup>1</sup></b>	<b>\$ 10</b>	<b>\$</b>

1. Realized gains and losses are recognized in Other revenues in the income statements.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****6. Collateralized Transactions****Offsetting of Certain Collateralized Transactions**

<i>\$ in millions</i>	At March 31, 2019				
	Gross Amounts	Amounts Offset	Net Amounts Presented	Amounts Not Offset <sup>1</sup>	Net Amounts
<b>Assets</b>					
Securities purchased under agreements to resell	\$ 254,681	\$ (158,111)	\$ 96,570	\$ (93,718)	\$ 2,852
Securities borrowed	161,154	(22,263)	138,891	(134,107)	4,784
<b>Liabilities</b>					
Securities sold under agreements to repurchase	\$ 206,059	\$ (158,111)	\$ 47,948	\$ (41,675)	\$ 6,273
Securities loaned	34,771	(22,263)	12,508	(12,382)	126
<b>Net amounts for which master netting agreements are not in place or may not be legally enforceable</b>					
Securities purchased under agreements to resell					\$ 2,419
Securities borrowed					773
Securities sold under agreements to repurchase					5,148
Securities loaned					107

<i>\$ in millions</i>	At December 31, 2018				
	Gross Amounts	Amounts Offset	Net Amounts Presented	Amounts Not Offset <sup>1</sup>	Net Amounts
<b>Assets</b>					
Securities purchased under agreements to resell	\$ 262,976	\$ (164,454)	\$ 98,522	\$ (95,610)	\$ 2,912
Securities borrowed	134,711	(18,398)	116,313	(112,551)	3,762
<b>Liabilities</b>					
Securities sold under agreements to repurchase	\$ 214,213	\$ (164,454)	\$ 49,759	\$ (41,095)	\$ 8,664
Securities loaned	30,306	(18,398)	11,908	(11,677)	231
<b>Net amounts for which master netting agreements are not in place or may not be legally enforceable</b>					
Securities purchased under agreements to resell					\$ 2,579
Securities borrowed					724

Securities sold under agreements to repurchase	6,762
Securities loaned	191

1. Amounts relate to master netting agreements that have been determined by the Firm to be legally enforceable in the event of default but where certain other criteria are not met in accordance with applicable offsetting accounting guidance.

For further discussion of the Firm's collateralized transactions, see Note 6 to the financial statements in the 2018 Form 10-K. For information related to offsetting of derivatives, see Note 4.

### Gross Secured Financing Balances by Remaining Contractual Maturity

<i>\$ in millions</i>	At March 31, 2019				
	Overnight and Open	Less than 30 Days	30-90 Days	Over 90 Days	Total
Securities sold under agreements to repurchase	\$ 72,663	\$ 53,332	\$ 42,658	\$ 37,406	\$ 206,059
Securities loaned	19,131	6,858	2,715	6,067	34,771
Total included in the offsetting disclosure	\$ 91,794	\$ 60,190	\$ 45,373	\$ 43,473	\$ 240,830
Trading liabilities – Obligation to return securities received as collateral	19,861				19,861
<b>Total</b>	<b>\$ 111,655</b>	<b>\$ 60,190</b>	<b>\$ 45,373</b>	<b>\$ 43,473</b>	<b>\$ 260,691</b>

<i>\$ in millions</i>	At December 31, 2018				
	Overnight and Open	Less than 30 Days	30-90 Days	Over 90 Days	Total
Securities sold under agreements to repurchase	\$ 56,503	\$ 93,427	\$ 35,692	\$ 28,591	\$ 214,213
Securities loaned	18,397	3,609	1,985	6,315	30,306
Total included in the offsetting disclosure	\$ 74,900	\$ 97,036	\$ 37,677	\$ 34,906	\$ 244,519
Trading liabilities – Obligation to return securities received as collateral	17,594				17,594
<b>Total</b>	<b>\$ 92,494</b>	<b>\$ 97,036</b>	<b>\$ 37,677</b>	<b>\$ 34,906</b>	<b>\$ 262,113</b>

### Gross Secured Financing Balances by Class of Collateral Pledged

<i>\$ in millions</i>	At	At
	March 31, 2019	December 31, 2018
<b>Securities sold under agreements to repurchase</b>		
U.S. Treasury and agency securities	\$ 59,851	\$ 68,487
State and municipal securities	1,633	925
Other sovereign government obligations	123,089	120,432
ABS	2,112	3,017

Edgar Filing: MORGAN STANLEY - Form 10-Q

Corporate and other debt	7,327	8,719
Corporate equities	11,624	12,079
Other	423	554
<b>Total</b>	<b>\$ 206,059</b>	<b>\$ 214,213</b>
<b>Securities loaned</b>		
Other sovereign government obligations	\$ 22,656	\$ 19,021
Corporate equities	11,736	10,800
Other	379	485
<b>Total</b>	<b>\$ 34,771</b>	<b>\$ 30,306</b>
<b>Total included in the offsetting disclosure</b>	<b>\$ 240,830</b>	<b>\$ 244,519</b>
<b>Trading liabilities Obligation to return securities received as collateral</b>		
Corporate equities	\$ 19,861	\$ 17,594
<b>Total</b>	<b>\$ 260,691</b>	<b>\$ 262,113</b>



Table of Contents

## Notes to Consolidated Financial Statements

(Unaudited)

**Carrying Value of Assets Loaned or Pledged without Counterparty Right to Sell or Repledge**

	At March 31, 2019	At December 31, 2018
<i>\$ in millions</i>		
Trading assets	\$ 35,543	\$ 39,430

The Firm pledges its trading assets to collateralize securities sold under agreements to repurchase, securities loaned, other secured financings and derivatives and to cover customer short sales. Counterparties may or may not have the right to sell or repledge the collateral.

Pledged financial instruments that can be sold or repledged by the secured party are identified as Trading assets (pledged to various parties) in the balance sheets.

**Fair Value of Collateral Received with Right to Sell or Repledge**

	At March 31, 2019	At December 31, 2018
<i>\$ in millions</i>		
Collateral received with right to sell or repledge	\$ 697,669	\$ 639,610
Collateral that was sold or repledged <sup>1</sup>	553,625	487,983

1. Does not include securities used to meet federal regulations for the Firm's U.S. broker-dealers.

**Restricted Cash and Segregated Securities**

	At March 31, 2019	At December 31, 2018
<i>\$ in millions</i>		

Restricted cash	\$	30,712	\$	35,356
Segregated securities <sup>1</sup>		24,752		26,877
<b>Total</b>	<b>\$</b>	<b>55,464</b>	<b>\$</b>	<b>62,233</b>

1. Securities segregated under federal regulations for the Firm's U.S. broker-dealers are sourced from Securities purchased under agreements to resell and Trading assets in the balance sheets.

The Firm receives collateral in the form of securities in connection with securities purchased under agreements to resell, securities borrowed, securities-for-securities transactions, derivative transactions, customer margin loans and securities-based lending. In many cases, the Firm is permitted to sell or repledge these securities held as collateral and use the securities to secure securities sold under agreements to repurchase, to enter into securities lending and derivative transactions or for delivery to counterparties to cover short positions.

### Customer Margin Lending

<i>\$ in millions</i>	At	
	March 31, 2019	December 31, 2018
Customer receivables representing margin loans	\$ 27,427	\$ 26,225

The Firm provides margin lending arrangements which allow customers to borrow against the value of qualifying securities. Receivables under margin lending arrangements are included within Customer and other receivables in the balance sheets. Under these agreements and transactions, the Firm receives collateral, including U.S. government and agency securities, other sovereign government obligations, corporate and other debt, and corporate equities. Customer receivables generated from margin lending activities are collateralized by customer-owned securities held by the Firm. The Firm monitors required margin levels and established credit terms daily and, pursuant to such guidelines, requires customers to deposit additional collateral, or reduce positions, when necessary.

For a further discussion of the Firm's margin lending activities, see Note 6 to the financial statements in the 2018 Form 10-K.

The Firm has additional secured liabilities. For a further discussion of other secured financings, see Notes 10 and 12.

## 7. Loans, Lending Commitments and Allowance for Credit Losses

### Loans by Type

<i>\$ in millions</i>	At March 31, 2019		
	Loans Held for Investment	Loans Held for Sale	Total Loans
Corporate	\$ 38,424	\$ 12,469	\$ 50,893
Consumer	27,300		27,300
Residential real estate	28,037	22	28,059
Commercial real estate	7,764	2,440	10,204
Total loans, gross	101,525	14,931	116,456
Allowance for loan losses	(259)		(259)
<b>Total loans, net</b>	<b>\$ 101,266</b>	<b>\$ 14,931</b>	<b>\$ 116,197</b>

Fixed rate loans, net	\$ 16,450
Floating or adjustable rate loans, net	99,747
Loans to non-U.S. borrowers, net	18,072

<i>\$ in millions</i>	At December 31, 2018		
	Loans Held for Investment	Loans Held for Sale	Total Loans
Corporate	\$ 36,909	\$ 13,886	\$ 50,795
Consumer	27,868		27,868
Residential real estate	27,466	22	27,488
Commercial real estate <sup>1</sup>	7,810	1,856	9,666
Total loans, gross	100,053	15,764	115,817
Allowance for loan losses	(238)		(238)
<b>Total loans, net</b>	<b>\$ 99,815</b>	<b>\$ 15,764</b>	<b>\$ 115,579</b>
Fixed rate loans, net			\$ 15,632
Floating or adjustable rate loans, net			99,947
Loans to non-U.S. borrowers, net			17,568

1. Beginning in 2019, loans previously referred to as Wholesale real estate are referred to as Commercial real estate.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Loans Held for Investment before Allowance by Credit Quality**

<i>\$ in millions</i>	<b>At March 31, 2019</b>				
	Corporate	Consumer	Real Estate	Commercial Real Estate	Total
Pass	\$ 37,806	\$ 27,294	\$ 27,954	\$ 7,332	\$ 100,386
Special mention	171		9	312	492
Substandard	447	6	74	120	647
Doubtful					
Loss					
Total	\$ 38,424	\$ 27,300	\$ 28,037	\$ 7,764	\$ 101,525

<i>\$ in millions</i>	<b>At December 31, 2018</b>				
	Corporate	Consumer	Real Estate	Commercial Real Estate	Total
Pass	\$ 36,217	\$ 27,863	\$ 27,387	\$ 7,378	\$ 98,845
Special mention	492	5		312	809
Substandard	200		79	120	399
Doubtful					
Loss					
Total	\$ 36,909	\$ 27,868	\$ 27,466	\$ 7,810	\$ 100,053

**Impaired Loans and Lending Commitments before Allowance**

<i>\$ in millions</i>	<b>At March 31, 2019</b>			
	Corporate	Consumer	Residential Real Estate	Total
<b>Loans</b>				
With allowance	\$ 265	\$	\$	\$ 265
Without allowance <sup>1</sup>	20	5	65	90
Total impaired loans	\$ 285	\$ 5	\$ 65	\$ 355
UPB	292	5	66	363
<b>Lending commitments</b>				

With allowance	\$ 17	\$	\$	\$ 17
Without allowance <sup>1</sup>	45			45
Total impaired lending commitments	62			62

At December 31, 2018				
<i>\$ in millions</i>	Corporate	Consumer	Residential Real Estate	Total
<b>Loans</b>				
With allowance	\$ 24	\$	\$	\$ 24
Without allowance <sup>1</sup>	32		69	101
Total impaired loans	\$ 56	\$	\$ 69	\$ 125
UPB	63		70	133
<b>Lending commitments</b>				
With allowance	\$ 19	\$	\$	\$ 19
Without allowance <sup>1</sup>	34			34
Total impaired lending commitments	53			53

1. No allowance was recorded for these loans and lending commitments as the present value of the expected future cash flows or value of the collateral equaled or exceeded the carrying value.

Loans and lending commitments in the previous table have been evaluated for a specific allowance. All remaining loans and lending commitments are assessed under the inherent allowance methodology.

### Impaired Loans and Total Allowance by Region

At March 31, 2019				
<i>\$ in millions</i>	Americas	EMEA	Asia	Total
Impaired loans	\$ 355	\$ 46	\$ 2	\$ 355
Total Allowance for loan losses	211	46	2	259

At December 31, 2018				
<i>\$ in millions</i>	Americas	EMEA	Asia	Total
Impaired loans	\$ 125	\$	\$	\$ 125
Total Allowance for loan losses	193	42	3	238

### Troubled Debt Restructurings

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Loans	\$ 93	\$ 38
Lending commitments	68	45
Allowance for loan losses and lending commitments	5	4

Impaired loans and lending commitments classified as held for investment within corporate loans include TDRs as shown in the previous table. These restructurings typically include modifications of interest rates, collateral requirements, other loan covenants and payment extensions.

### Allowance for Loan Losses Rollforward

<i>\$ in millions</i>	Corporate	Consumer	Residential Real Estate	Commercial Real Estate	Total
December 31, 2018	\$ 144	\$ 7	\$ 20	\$ 67	\$ 238
Provision (release)	26	(1)	2		27
Other	(6)				(6)
<b>March 31, 2019</b>	<b>\$ 164</b>	<b>\$ 6</b>	<b>\$ 22</b>	<b>\$ 67</b>	<b>\$ 259</b>
Inherent	\$ 150	\$ 6	\$ 22	\$ 67	\$ 245
Specific	14				14

<i>\$ in millions</i>	Corporate	Consumer	Residential Real Estate	Commercial Real Estate	Total
December 31, 2017	\$ 126	\$ 4	\$ 24	\$ 70	\$ 224
Provision (release)	6		(1)	14	19
Other	(1)			1	
March 31, 2018	\$ 131	\$ 4	\$ 23	\$ 85	\$ 243
Inherent	\$ 126	\$ 4	\$ 23	\$ 85	\$ 238
Specific	5				5

March 2019 Form 10-Q

56

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Allowance for Lending Commitments Rollforward**

<i>\$ in millions</i>	Corporate	Consumer	Residential Real Estate	Commercial Real Estate	Total
December 31, 2018	\$ 198	\$ 2	\$	\$ 3	\$ 203
Provision (release)	8			1	9
Other		(1)			(1)
<b>March 31, 2019</b>	<b>\$ 206</b>	<b>\$ 1</b>	<b>\$</b>	<b>\$ 4</b>	<b>\$ 211</b>
Inherent	\$ 202	\$ 1	\$	\$ 4	\$ 207
Specific	4				4

<i>\$ in millions</i>	Corporate	Consumer	Residential Real Estate	Commercial Real Estate	Total
December 31, 2017	\$ 194	\$ 1	\$	\$ 3	\$ 198
Provision (release)	7				7
Other					
March 31, 2018	\$ 201	\$ 1	\$	\$ 3	\$ 205
Inherent	\$ 200	\$ 1	\$	\$ 3	\$ 204
Specific	1				1

For a further discussion of the Firm's loans, including loan types and categories, as well as the Firm's allowance methodology, refer to Notes 2 and 7 to the financial statements in the 2018 Form 10-K. See Note 3 for further information regarding Loans and lending commitments held at fair value. See Note 11 for details of current commitments to lend in the future.

**Employee Loans**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Balance	\$ 3,011	\$ 3,415
Allowance for loan losses	(64)	(63)
Balance, net	\$ 2,947	\$ 3,352
Repayment term range, in years	1 to 20	1 to 20

Employee loans are granted in conjunction with a program established primarily to recruit certain Wealth Management representatives, are full recourse and generally require periodic repayments. These loans are recorded in Customer and other receivables in the balance sheets. The Firm establishes an allowance for loan amounts it does not

consider recoverable, and the related provision is recorded in Compensation and benefits expense.

## 8. Equity Method Investments

### Equity Method Investment Balances

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Investments	\$ 2,391	\$ 2,432

<i>\$ in millions</i>	Three Months Ended March 31, 2019	2018
Income (loss)	\$ (10)	\$ 50

Equity method investments, other than certain investments in funds, are summarized above and are included in Other assets in the balance sheets with related income or loss included in Other revenues in the income statements. See Net Asset Value Measurements Fund Interests in Note 3 for the carrying value of the Firm's fund interests, which are comprised of general and limited partnership interests, as well as any related carried interest.

### *Japanese Securities Joint Venture*

<i>\$ in millions</i>	Three Months Ended March 31, 2019	2018
Income from investment in MUMSS	\$ 3	\$ 56

The Firm and Mitsubishi UFJ Financial Group, Inc. ( MUFG ) formed a joint venture in Japan comprising their respective investment banking and securities businesses by forming two joint venture companies, Mitsubishi UFJ Morgan Stanley Securities Co., Ltd. ( MUMSS ) and Morgan Stanley MUFG Securities Co., Ltd. ( MSMS ) (the Joint Venture ). The Firm owns a 40% economic interest in the Joint Venture and MUFG owns the other 60%.

The Firm's 40% voting interest in MUMSS is accounted for under the equity method within the Institutional Securities business segment, and is included in the equity method investment balances above. The Firm consolidates MSMS into the Institutional Securities business segment, based on its 51% voting interest.

The Firm engages in transactions in the ordinary course of business with MUFG and its affiliates, for example investment banking, financial advisory, sales and trading, derivatives, investment management, lending, securitization and other financial services transactions. Such transactions are on substantially the same terms as those that would be available to unrelated third parties for comparable transactions.



Table of Contents

## Notes to Consolidated Financial Statements

(Unaudited)

## 9. Deposits

## Deposits

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Savings and demand deposits	\$ 143,201	\$ 154,897
Time deposits	36,530	32,923
<b>Total</b>	<b>\$ 179,731</b>	<b>\$ 187,820</b>
Deposits subject to FDIC insurance	\$ 141,737	\$ 144,515
Time deposits that equal or exceed the FDIC insurance limit	\$ 22	\$ 11

## Time Deposit Maturities

<i>\$ in millions</i>	At March 31, 2019
2019	\$ 14,100
2020	13,381
2021	4,272
2022	1,866
2023	2,069
Thereafter	842
<b>Total</b>	<b>\$ 36,530</b>

## 10. Borrowings and Other Secured Financings

## Borrowings

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Original maturities of one year or less	\$ 1,498	\$ 1,545
<b>Original maturities greater than one year</b>		
Senior	\$ 178,926	\$ 178,027

Subordinated		10,267	10,090
<b>Total</b>	<b>\$</b>	<b>189,193</b>	<b>\$ 188,117</b>
<b>Total borrowings</b>	<b>\$</b>	<b>190,691</b>	<b>\$ 189,662</b>
Weighted average stated maturity, in years <sup>1</sup>		6.7	6.5

1. Only includes borrowings with original maturities greater than one year.

### Other Secured Financings

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Original maturities:		
Greater than one year	\$ 5,254	\$ 6,772
One year or less	2,074	2,036
Failed sales	715	658
<b>Total</b>	<b>\$ 8,043</b>	<b>\$ 9,466</b>

Other secured financings include the liabilities related to certain ELNs, transfers of financial assets that are accounted for as financings rather than sales, pledged commodities, consolidated VIEs where the Firm is deemed to be the primary beneficiary and other secured borrowings. These liabilities are generally payable from the cash flows of the related assets accounted for as Trading assets. See Note 12 for further information on other secured financings related to VIEs and securitization activities.

For transfers that fail to meet the accounting criteria for a sale, the Firm continues to recognize the assets in Trading assets at fair value, and the Firm recognizes the associated liabilities in Other secured financings at fair value in the balance sheets.

The assets transferred to certain unconsolidated VIEs in transactions accounted for as failed sales cannot be removed unilaterally by the Firm and are not generally available to the Firm. The related liabilities are also non-recourse to the Firm. In certain other failed sale transactions, the Firm has the right to remove assets or provides additional recourse through derivatives such as total return swaps, guarantees or other forms of involvement.

## 11. Commitments, Leases, Guarantees and Contingencies

### Commitments

<i>\$ in millions</i>	Years to Maturity at March 31, 2019				Total
	Less than 1	1-3	3-5	Over 5	
Lending:					
Corporate	\$ 19,594	\$ 30,583	\$ 49,944	\$ 5,286	\$ 105,407
Consumer	7,442	1	11		7,454
Residential and commercial real estate	66	751	89	554	1,460
	121,612			8,322	129,934

Forward-starting secured financing receivables					
Underwriting	<b>2,299</b>				<b>2,299</b>
Investment activities	<b>513</b>	<b>93</b>	<b>49</b>	<b>243</b>	<b>898</b>
Letters of credit and other financial guarantees	<b>187</b>	<b>1</b>		<b>2</b>	<b>190</b>
<b>Total</b>	<b>\$ 151,713</b>	<b>\$ 31,429</b>	<b>\$ 50,093</b>	<b>\$ 14,407</b>	<b>\$ 247,642</b>
Corporate lending commitments participated to third parties					<b>\$ 8,674</b>
Forward-starting secured financing receivables settled within three business days					<b>\$ 110,917</b>

Since commitments associated with these instruments may expire unused, the amounts shown do not necessarily reflect the actual future cash funding requirements.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

For a further description of these commitments, refer to Note 12 to the financial statements in the 2018 Form 10-K.

**Leases****Balance Sheet Amounts Related to Leases**

	At March 31, 2019
<i>\$ in millions</i>	
Other assets ROU assets	\$ 3,886
Other liabilities and accrued expenses	
Lease liabilities	4,653
Weighted average:	
Remaining lease term, in years	10.0
Discount rate	3.7%
<b>Lease Liabilities</b>	

	At March 31, 2019
<i>\$ in millions</i>	
Remainder of 2019	\$ 552
2020	687
2021	634
2022	583
2023	532
Thereafter	2,766
<b>Total undiscounted cash flows</b>	<b>\$ 5,754</b>
Difference between undiscounted and discounted cash flows	1,101
<b>Amount on balance sheet</b>	<b>\$ 4,653</b>
<b>Lease Costs</b>	

<i>\$ in millions</i>	<b>Three Months Ended March 31, 2019</b>	
Fixed costs	\$	<b>170</b>
Variable costs <sup>1</sup>		<b>34</b>
Less: Sublease income		<b>(1)</b>
<b>Total lease cost, net</b>		<b>203</b>

1. Includes common area maintenance charges and other variable costs not included in the measurement of ROU assets and lease liabilities.

#### Cash Flows Statement Supplemental Information

<i>\$ in millions</i>	<b>Three Months Ended March 31, 2019</b>	
Cash outflows Lease liabilities	\$	<b>165</b>
Non-cash ROU assets recorded for new and modified leases		<b>40</b>
<b>Minimum Future Lease Commitments (under Previous GAAP)</b>		

<i>\$ in millions</i>	At December 31, 2018	
2019	\$	677
2020		657
2021		602
2022		555
2023		507
Thereafter		2,639
<b>Total undiscounted cash flows</b>	\$	<b>5,637</b>
Minimum rental income to be received in the future under non-cancelable operating subleases	\$	7
The Firm's leases are principally non-cancelable operating real estate leases.		

#### Guarantees

##### Obligations under Guarantee Arrangements at March 31, 2019

<i>\$ in millions</i>	Maximum Potential Payout/Notional Years to Maturity				
	Less than 1	1-3	3-5	Over 5	Total
Credit derivatives	\$ 39,388	\$ 48,458	\$ 75,532	\$ 51,176	\$ 214,554
Other credit contracts				105	105
Non-credit derivatives	1,585,096	1,425,027	450,368	791,729	4,252,220
	1,015	1,037	1,302	4,174	7,528

Standby letters of credit and other financial guarantees issued<sup>1</sup>

Market value guarantees	104	103	4	211
Liquidity facilities	4,478			4,478
Whole loan sales guarantees		1		23,175
Securitization representations and warranties				64,939
General partner guarantees	9	112	162	50
				333

<i>\$ in millions</i>	Carrying Amount	Asset (Liability)	Collateral/Recourse
Credit derivatives <sup>2</sup>	\$	209	\$
Other credit contracts		(8)	
Non-credit derivatives <sup>2</sup>		(41,254)	
Standby letters of credit and other financial guarantees issued <sup>1</sup>		222	6,350
Market value guarantees			107
Liquidity facilities		6	7,620
Whole loan sales guarantees		(9)	
Securitization representations and warranties <sup>3</sup>		(42)	
General partner guarantees		(71)	

1. These amounts include certain issued standby letters of credit participated to third parties, totaling \$0.6 billion of notional and collateral/recourse, due to the nature of the Firm's obligations under these arrangements.
2. Carrying amounts of derivative contracts are shown on a gross basis prior to cash collateral or counterparty netting. For further information on derivative contracts, see Note 4.
3. Primarily related to residential mortgage securitizations.

**Table of Contents**

**Notes to Consolidated Financial Statements**

**(Unaudited)**

The Firm has obligations under certain guarantee arrangements, including contracts and indemnification agreements, that contingently require the Firm to make payments to the guaranteed party based on changes in an underlying measure (such as an interest or foreign exchange rate, security or commodity price, an index, or the occurrence or non-occurrence of a specified event) related to an asset, liability or equity security of a guaranteed party. Also included as guarantees are contracts that contingently require the Firm to make payments to the guaranteed party based on another entity's failure to perform under an agreement, as well as indirect guarantees of the indebtedness of others.

In certain situations, collateral may be held by the Firm for those contracts that meet the definition of a guarantee. Generally, the Firm sets collateral requirements by counterparty so that the collateral covers various transactions and products and is not allocated specifically to individual contracts. Also, the Firm may recover amounts related to the underlying asset delivered to the Firm under a derivative contract.

For more information on the nature of the obligation and related business activity for market value guarantees, liquidity facilities, whole loan sales guarantees and general partner guarantees related to certain investment management funds, as well as the other products in the previous table, see Note 12 to the financial statements in the 2018 Form 10-K.

**Other Guarantees and Indemnities**

In the normal course of business, the Firm provides guarantees and indemnifications in a variety of transactions. These provisions generally are standard contractual terms. Certain of these guarantees and indemnifications related to indemnities, exchange and clearinghouse member guarantees and merger and acquisition guarantees are described in Note 12 to the financial statements in the 2018 Form 10-K.

In addition, in the ordinary course of business, the Firm guarantees the debt and/or certain trading obligations (including obligations associated with derivatives, foreign exchange contracts and the settlement of physical commodities) of certain subsidiaries. These guarantees generally are entity or product specific and are required by investors or trading counterparties. The activities of the Firm's subsidiaries covered by these guarantees (including any related debt or trading obligations) are included in the financial statements.

***Finance Subsidiary***

The Parent Company fully and unconditionally guarantees the securities issued by Morgan Stanley Finance LLC, a 100%-owned finance subsidiary.

**Contingencies**

*Legal.* In addition to the matters described below, in the normal course of business, the Firm has been named, from time to time, as a defendant in various legal actions, including arbitrations, class actions and other litigation, arising in

connection with its activities as a global diversified financial services institution. Certain of the actual or threatened legal actions include claims for substantial compensatory and/or punitive damages or claims for indeterminate amounts of damages. In some cases, the entities that would otherwise be the primary defendants in such cases are bankrupt or are in financial distress. These actions have included, but are not limited to, residential mortgage and credit crisis-related matters.

While the Firm has identified below any individual proceedings where the Firm believes a material loss to be reasonably possible and reasonably estimable, there can be no assurance that material losses will not be incurred from claims that have not yet been asserted or are not yet determined to be probable or possible and reasonably estimable losses.

The Firm contests liability and/or the amount of damages as appropriate in each pending matter. Where available information indicates that it is probable a liability had been incurred at the date of the financial statements and the Firm can reasonably estimate the amount of that loss, the Firm accrues the estimated loss by a charge to income.

In many proceedings and investigations, however, it is inherently difficult to determine whether any loss is probable or even possible or to estimate the amount of any loss. In addition, even where a loss is possible or an exposure to loss exists in excess of the liability already accrued with respect to a previously recognized loss contingency, it is not always possible to reasonably estimate the size of the possible loss or range of loss.

For certain legal proceedings and investigations, the Firm cannot reasonably estimate such losses, particularly for proceedings and investigations where the factual record is being developed or contested or where plaintiffs or government entities seek substantial or indeterminate damages, restitution, disgorgement or penalties. Numerous issues may need to be resolved, including through potentially lengthy discovery and determination of important factual matters, determination of issues related to class certification and the calculation of damages or other relief, and by addressing novel or unsettled legal questions relevant to the proceedings or investigations in question, before a loss or additional loss or range of loss or additional range of loss can be reasonably estimated for a proceeding or investigation.



---

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

For certain other legal proceedings and investigations, the Firm can estimate reasonably possible losses, additional losses, ranges of loss or ranges of additional loss in excess of amounts accrued but does not believe, based on current knowledge and after consultation with counsel, that such losses will have a material adverse effect on the Firm's financial statements as a whole, other than the matters referred to in the following paragraphs.

On July 15, 2010, China Development Industrial Bank ( CDIB ) filed a complaint against the Firm, styled *China Development Industrial Bank v. Morgan Stanley & Co. Incorporated et al.*, which is pending in the Supreme Court of the State of New York, New York County ( Supreme Court of NY ). The complaint relates to a \$275 million CDS referencing the super senior portion of the STACK 2006-1 CDO. The complaint asserts claims for common law fraud, fraudulent inducement and fraudulent concealment and alleges that the Firm misrepresented the risks of the STACK 2006-1 CDO to CDIB, and that the Firm knew that the assets backing the CDO were of poor quality when it entered into the CDS with CDIB. The complaint seeks compensatory damages related to the approximately \$228 million that CDIB alleges it has already lost under the CDS, rescission of CDIB's obligation to pay an additional \$12 million, punitive damages, equitable relief, fees and costs. On February 28, 2011, the court denied the Firm's motion to dismiss the complaint. On December 21, 2018, the court denied the Firm's motion for summary judgment and granted in part the Firm's motion for sanctions relating to spoliation of evidence. On January 24, 2019, CDIB filed a notice of appeal from the court's December 21, 2018 order, and on January 25, 2019, the Firm filed a notice of appeal from the same order. On March 7, 2019, the court denied the relief that CDIB sought in a motion to clarify and resettle the portion of the court's December 21, 2018 order granting spoliation sanctions. Based on currently available information, the Firm believes it could incur a loss in this action of up to approximately \$240 million plus pre- and post-judgment interest, fees and costs.

On July 8, 2013, U.S. Bank National Association, in its capacity as trustee, filed a complaint against the Firm styled *U.S. Bank National Association, solely in its capacity as Trustee of the Morgan Stanley Mortgage Loan Trust 2007-2AX (MSM 2007-2AX) v. Morgan Stanley Mortgage Capital Holdings LLC, Successor-by-Merger to Morgan Stanley Mortgage Capital Inc. and GreenPoint Mortgage Funding, Inc.*, pending in the Supreme Court of NY. The complaint asserts claims for breach of contract and alleges, among other things, that the loans in the trust, which had an original principal balance of approximately \$650 million, breached various representations and warranties. The complaint seeks, among other relief, specific performance of

the loan breach remedy procedures in the transaction documents, unspecified damages and interest. On November 24, 2014, the court granted in part and denied in part the Firm's motion to dismiss the complaint. On April 4, 2019, the court denied the Firm's motion to renew its motion to dismiss. Based on currently available information, the Firm believes that it could incur a loss in this action of up to approximately \$240 million, the total original unpaid balance of the mortgage loans for which the Firm received repurchase demands that it did not repurchase, plus pre- and post-judgment interest, fees and costs, but plaintiff is seeking to expand the number of loans at issue and the possible range of loss could increase.

On September 19, 2014, Financial Guaranty Insurance Company ( FGIC ) filed a complaint against the Firm in the Supreme Court of NY, styled *Financial Guaranty Insurance Company v. Morgan Stanley ABS Capital I Inc. et al.*

relating to a securitization issued by Basket of Aggregated Residential NIMS 2007-1 Ltd. The complaint asserts claims for breach of contract and alleges, among other things, that the net interest margin securities ( NIMS ) in the trust breached various representations and warranties. FGIC issued a financial guaranty policy with respect to certain notes that had an original balance of approximately \$475 million. The complaint seeks, among other relief, specific performance of the NIMS breach remedy procedures in the transaction documents, unspecified damages, reimbursement of certain payments made pursuant to the transaction documents, attorneys' fees and interest. On November 24, 2014, the Firm filed a motion to dismiss the complaint, which the court denied on January 19, 2017. On September 13, 2018, the Appellate Division, First Department, affirmed the lower court's order denying the Firm's motion to dismiss. Based on currently available information, the Firm believes that it could incur a loss in this action of up to approximately \$126 million, the unpaid balance of these notes, plus pre- and post-judgment interest, fees and costs, as well as claim payments that FGIC has made and will make in the future.

On September 23, 2014, FGIC filed a complaint against the Firm in the Supreme Court of NY styled *Financial Guaranty Insurance Company v. Morgan Stanley ABS Capital I Inc. et al.* relating to the Morgan Stanley ABS Capital I Inc. Trust 2007-NC4. The complaint asserts claims for breach of contract and fraudulent inducement and alleges, among other things, that the loans in the trust breached various representations and warranties and defendants made untrue statements and material omissions to induce FGIC to issue a financial guaranty policy on certain classes of certificates that had an original balance of approximately \$876 million. The complaint seeks, among other relief, specific performance of the loan breach remedy procedures in the transaction

---

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

documents, compensatory, consequential and punitive damages, attorneys' fees and interest. On January 23, 2017, the court denied the Firm's motion to dismiss the complaint. On September 13, 2018, the Appellate Division, First Department, affirmed in part and reversed in part the lower court's order denying the Firm's motion to dismiss. On December 20, 2018, the Appellate Division denied plaintiff's motion for leave to appeal the decision of the Appellate Division, First Department, to the New York Court of Appeals or, in the alternative, for re-argument. Based on currently available information, the Firm believes that it could incur a loss in this action of up to approximately \$277 million, the total original unpaid balance of the mortgage loans for which the Firm received repurchase demands from a certificate holder and FGIC that the Firm did not repurchase, plus pre- and post-judgment interest, fees and costs, as well as claim payments that FGIC has made and will make in the future. In addition, plaintiff is seeking to expand the number of loans at issue and the possible range of loss could increase.

On January 23, 2015, Deutsche Bank National Trust Company, in its capacity as trustee, filed a complaint against the Firm styled *Deutsche Bank National Trust Company solely in its capacity as Trustee of the Morgan Stanley ABS Capital I Inc. Trust 2007-NC4 v. Morgan Stanley Mortgage Capital Holdings LLC as Successor-by-Merger to Morgan Stanley Mortgage Capital Inc., and Morgan Stanley ABS Capital I Inc.*, pending in the Supreme Court of NY. The complaint asserts claims for breach of contract and alleges, among other things, that the loans in the trust, which had an original principal balance of approximately \$1.05 billion, breached various representations and warranties. The complaint seeks, among other relief, specific performance of the loan breach remedy procedures in the transaction documents, compensatory, consequential, rescissory, equitable and punitive damages, attorneys' fees, costs and other related expenses, and interest. On December 11, 2015, the court granted in part and denied in part the Firm's motion to dismiss the complaint. On October 19, 2018, the court granted the Firm's motion for leave to amend its answer and to stay the case pending resolution of Deutsche Bank National Trust Company's appeal to the New York Court of Appeals in another case. On January 17, 2019, the First Department reversed the trial court's order to the extent that it had granted in part the Firm's motion to dismiss the complaint. On February 15, 2019, the Firm filed a motion for leave to appeal, or in the alternative, for the re-argument of the First

Department's decision. Based on currently available information, the Firm believes that it could incur a loss in this action of up to approximately \$277 million, the total original unpaid balance of the mortgage loans for which the Firm received repurchase demands from a certificate holder and a monoline insurer that the Firm did not repurchase, plus pre- and post-judgment interest, fees and costs, but plaintiff is seeking to expand the number of loans at issue and the possible range of loss could increase.

In matters styled *Case number 15/3637* and *Case number 15/4353*, the Dutch Tax Authority (Dutch Authority) has challenged, in the District Court in Amsterdam, the prior set-off by the Firm of approximately 124 million (approximately \$139 million) plus accrued interest of withholding tax credits against the Firm's corporation tax liabilities for the tax years 2007 to 2013. The Dutch Authority alleges that the Firm was not entitled to receive the withholding tax credits on the basis, inter alia, that a Firm subsidiary did not hold legal title to certain securities subject to withholding tax on the relevant dates. The Dutch Authority has also alleged that the Firm failed to provide certain information to the Dutch Authority and keep adequate books and records. A hearing took place in this matter on September 19, 2017. On April 26, 2018, the District Court in Amsterdam issued a decision dismissing the Dutch

Authority's claims. On June 4, 2018, the Dutch Authority filed an appeal before the Court of Appeal in Amsterdam in matters re-styled *Case number 18/00318* and *Case number 18/00319*. A hearing of the Dutch Authority's appeal has been scheduled for June 26, 2019. Based on currently available information, the Firm believes that it could incur a loss in this action of up to approximately 124 million (approximately \$139 million) plus accrued interest.

*Matters settled.* On April 1, 2016, the California Attorney General's Office filed an action against the Firm in California state court styled *California v. Morgan Stanley, et al.*, on behalf of California investors, including the California Public Employees' Retirement System and the California Teachers' Retirement System. The complaint alleges that the Firm made misrepresentations and omissions regarding RMBS and notes issued by the Cheyne SIV, and asserts violations of the California False Claims Act and other state laws and seeks treble damages, civil penalties, disgorgement, and injunctive relief. On April 24, 2019, the parties reached an agreement to settle the litigation.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****12. Variable Interest Entities and Securitization Activities****Consolidated VIEs****Assets and Liabilities by Type of Activity**

<i>\$ in millions</i>	<b>At March 31, 2019</b>		<b>At December 31, 2018</b>	
	VIE Assets	VIE Liabilities	VIE Assets	VIE Liabilities
OSF	\$ 260	\$	\$ 267	\$
MABS <sup>1</sup>	37	18	59	38
Other <sup>2</sup>	842	63	809	48
<b>Total</b>	<b>\$ 1,139</b>	<b>\$ 81</b>	<b>\$ 1,135</b>	<b>\$ 86</b>

OSF Other structured financings

1. Amounts include transactions backed by residential mortgage loans, commercial mortgage loans and other types of assets, including consumer or commercial assets. The value of assets is determined based on the fair value of the liabilities and the interests owned by the Firm in such VIEs as the fair values for the liabilities and interests owned are more observable.

2. Other primarily includes certain operating entities, investment funds and structured transactions.

**Assets and Liabilities by Balance Sheet Caption**

<i>\$ in millions</i>	<b>At</b>	
	<b>March 31, 2019</b>	<b>At December 31, 2018</b>
<b>Assets</b>		
Cash and cash equivalents:		
Cash and due from banks	\$ 92	\$ 77
Restricted cash	171	171
Trading assets at fair value	311	314
Customer and other receivables	21	25
Goodwill	18	18
Intangible assets	104	128
Other assets	422	402
<b>Total</b>	<b>\$ 1,139</b>	<b>\$ 1,135</b>
<b>Liabilities</b>		

Other secured financings	\$	49	\$	64
Other liabilities and accrued expenses		32		22
<b>Total</b>	\$	<b>81</b>	\$	<b>86</b>
Noncontrolling interests	\$	115	\$	106

Consolidated VIE assets and liabilities are presented in the previous tables after intercompany eliminations. Most assets owned by consolidated VIEs cannot be removed unilaterally by the Firm and are not generally available to the Firm. Most related liabilities issued by consolidated VIEs are non-recourse to the Firm. In certain other consolidated VIEs, the Firm either has the unilateral right to remove assets or provides additional recourse through derivatives such as total return swaps, guarantees or other forms of involvement.

In general, the Firm's exposure to loss in consolidated VIEs is limited to losses that would be absorbed on the VIE net assets

recognized in its financial statements, net of amounts absorbed by third-party variable interest holders.

### Non-consolidated VIEs

	At March 31, 2019				
<i>\$ in millions</i>	MABS	CDO	MTOB	OSF	Other
VIE assets (UPB)	\$ 75,970	\$ 9,766	\$ 7,110	\$ 3,302	\$ 19,512
<b>Maximum exposure to loss<sup>1</sup></b>					
Debt and equity interests	\$ 8,080	\$ 938	\$ 3	\$ 1,613	\$ 5,261
Derivative and other contracts			4,478		1,966
Commitments, guarantees and other	735			211	327
<b>Total</b>	\$ 8,815	\$ 938	\$ 4,481	\$ 1,824	\$ 7,554
<b>Carrying value of exposure to loss Assets</b>					
Debt and equity interests	\$ 8,080	\$ 938	\$ 3	\$ 1,194	\$ 5,261
Derivative and other contracts			6		228
<b>Total</b>	\$ 8,080	\$ 938	\$ 9	\$ 1,194	\$ 5,489
Additional VIE assets owned <sup>2</sup>					\$ 11,144
<b>Carrying value of exposure to loss Liabilities</b>					
Derivative and other contracts	\$	\$	\$	\$	\$ 205

	At December 31, 2018				
<i>\$ in millions</i>	MABS	CDO	MTOB	OSF	Other
VIE assets (UPB)	\$ 71,287	\$ 10,848	\$ 7,014	\$ 3,314	\$ 19,682
<b>Maximum exposure to loss<sup>1</sup></b>					
Debt and equity interests	\$ 8,234	\$ 1,169	\$	\$ 1,622	\$ 4,645
Derivative and other contracts			4,449		1,768
Commitments, guarantees and other	397	3		235	327
<b>Total</b>	\$ 8,631	\$ 1,172	\$ 4,449	\$ 1,857	\$ 6,740
<b>Carrying value of exposure to loss Assets</b>					
Debt and equity interests	\$ 8,234	\$ 1,169	\$	\$ 1,205	\$ 4,645
Derivative and other contracts			6		87
<b>Total</b>	\$ 8,234	\$ 1,169	\$ 6	\$ 1,205	\$ 4,732
Additional VIE assets owned <sup>2</sup>					\$ 11,969
<b>Carrying value of exposure to loss Liabilities</b>					

Derivative and other contracts	\$	\$	\$	\$	\$	185
MTOB Municipal tender option bonds						

1. Where notional amounts are utilized in quantifying the maximum exposure related to derivatives, such amounts do not reflect changes in fair value recorded by the Firm.
2. Additional VIE assets owned represents the carrying value of total exposure to non-consolidated VIEs for which the maximum exposure to loss is less than specific thresholds, primarily interests issued by securitization SPEs. The Firm's primary risk exposure is to the most subordinate class of beneficial interest and maximum exposure to loss generally equals the fair value of the assets owned. These assets are primarily included in Trading assets and Investment securities and are measured at fair value (see Note 3). The Firm does not provide additional support in these transactions through contractual facilities, guarantees or similar derivatives.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

The majority of the VIEs included in the previous tables are sponsored by unrelated parties; the Firm's involvement generally is the result of its secondary market-making activities and securities held in its Investment securities portfolio (see Note 5).

The Firm's maximum exposure to loss is dependent on the nature of the Firm's variable interest in the VIE and is limited to:

notional amounts of certain liquidity facilities;  
other credit support;  
total return swaps;  
written put options; and

fair value of certain other derivatives and investments the Firm has made in the VIE.

The Firm's maximum exposure to loss in the previous tables does not include the offsetting benefit of hedges or any reductions associated with the amount of collateral held as part of a transaction with the VIE or any party to the VIE directly against a specific exposure to loss.

Liabilities issued by VIEs generally are non-recourse to the Firm.

**Mortgage- and Asset-Backed Securitization Assets**

<i>\$ in millions</i>	<b>At March 31, 2019</b>		<b>At December 31, 2018</b>	
	UPB	Debt and Equity Interests	UPB	Debt and Equity Interests
Residential mortgages	\$ 6,590	\$ 628	\$ 6,954	\$ 745
Commercial mortgages	41,021	1,754	42,974	1,237
U.S. agency collateralized mortgage obligations	15,072	2,640	14,969	3,443
Other consumer or commercial loans	13,287	3,058	6,390	2,809
<b>Total</b>	<b>\$ 75,970</b>	<b>\$ 8,080</b>	<b>\$ 71,287</b>	<b>\$ 8,234</b>

**Transfers of Assets with Continuing Involvement**

<i>\$ in millions</i>	<b>At March 31, 2019</b>		
	RML	CML	CLN and



			U.S. Agency CMO	Other <sup>1</sup>
SPE assets (UPB) <sup>2</sup>	\$ 13,937	\$ 73,268	\$ 22,907	\$ 15,068
<b>Retained interests</b>				
Investment grade	\$ 17	\$ 525	\$ 349	\$ 2
Non-investment grade	4	166		90
<b>Total</b>	\$ 21	\$ 691	\$ 349	\$ 92
<b>Interests purchased in the secondary market (fair value)</b>				
Investment grade	\$ 9	\$ 72	\$ 246	\$
Non-investment grade	14	100		
<b>Total</b>	\$ 23	\$ 172	\$ 246	\$
Derivative assets (fair value)	\$	\$	\$	\$ 129
Derivative liabilities (fair value)				106

At December 31, 2018

\$ in millions	CLN and			
	RML	CML	U.S. Agency CMO	Other <sup>1</sup>
SPE assets (UPB) <sup>2</sup>	\$ 14,376	\$ 68,593	\$ 16,594	\$ 14,608
<b>Retained interests</b>				
Investment grade	\$ 17	\$ 483	\$ 1,573	\$ 3
Non-investment grade (fair value)	4	212		210
<b>Total</b>	\$ 21	\$ 695	\$ 1,573	\$ 213
<b>Interests purchased in the secondary market (fair value)</b>				
Investment grade	\$ 7	\$ 91	\$ 102	\$
Non-investment grade	28	71		
<b>Total</b>	\$ 35	\$ 162	\$ 102	\$
Derivative assets (fair value)	\$	\$	\$	\$ 216
Derivative liabilities (fair value)				178

RML Residential mortgage loans

CML Commercial mortgage loans

1. Amounts include CLO transactions managed by unrelated third parties.

2. Amounts include assets transferred by unrelated transferors.

\$ in millions	Fair Value at March 31, 2019		
	Level 2	Level 3	Total
<b>Retained interests</b>			
Investment grade	\$ 356	\$ 24	\$ 380
Non-investment grade	7	94	101
<b>Total</b>	\$ 363	\$ 118	\$ 481
<b>Interests purchased in the secondary market</b>			
Investment grade	\$ 320	\$ 7	\$ 327
Non-investment grade	101	13	114
<b>Total</b>	\$ 421	\$ 20	\$ 441
Derivative assets	\$ 47	\$ 82	\$ 129
Derivative liabilities	104	2	106

<i>\$ in millions</i>	Fair Value at December 31, 2018		
	Level 2	Level 3	Total
<b>Retained interests</b>			
Investment grade	\$ 1,580	\$ 13	\$ 1,593
Non-investment grade	174	252	426
<b>Total</b>	\$ 1,754	\$ 265	\$ 2,019
<b>Interests purchased in the secondary market</b>			
Investment grade	\$ 193	\$ 7	\$ 200
Non-investment grade	83	16	99
<b>Total</b>	\$ 276	\$ 23	\$ 299
Derivative assets	\$ 121	\$ 95	\$ 216
Derivative liabilities	175	3	178

The transfers of assets with continuing involvement tables include transactions with SPEs in which the Firm, acting as principal, transferred financial assets with continuing involvement and received sales treatment.

Transferred assets are carried at fair value prior to securitization, and any changes in fair value are recognized in the income statements. The Firm may act as underwriter of the beneficial interests issued by these securitization vehicles,

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

for which Investment banking revenues are recognized. The Firm may retain interests in the securitized financial assets as one or more tranches of the securitization. These retained interests are generally carried at fair value in the balance sheets with changes in fair value recognized in the income statements.

**Proceeds from New Securitization Transactions and Sales of Loans**

<i>\$ in millions</i>	Three Months Ended	
	2019	2018
New transactions <sup>1</sup>	\$ 4,733	\$ 6,134
Retained interests	2,887	481
Sales of corporate loans to CLO SPEs <sup>1, 2</sup>		94

1. Net gains on new transactions and sales of corporate loans to CLO entities at the time of the sale were not material for all periods presented.

2. Sponsored by non-affiliates.

The Firm has provided, or otherwise agreed to be responsible for, representations and warranties regarding certain assets transferred in securitization transactions sponsored by the Firm (see Note 11).

**Assets Sold with Retained Exposure**

<i>\$ in millions</i>	At	At
	March 31, 2019	December 31, 2018
Gross cash proceeds from sale of assets <sup>1</sup>	\$ 27,444	\$ 27,121
<b>Fair value</b>		
Assets sold	\$ 27,560	\$ 26,524
Derivative assets recognized in the balance sheets	264	164
Derivative liabilities recognized in the balance sheets	73	763

1. The carrying value of assets derecognized at the time of sale approximates gross cash proceeds. The Firm enters into transactions in which it sells securities, primarily equities and contemporaneously enters into bilateral OTC derivatives with the purchasers of the securities, through which it retains exposure to the sold securities.

For a discussion of the Firm's VIEs, the determination and structure of VIEs and securitization activities, see Note 13 to the financial statements in the 2018 Form 10-K.

### 13. Regulatory Requirements

#### Regulatory Capital Framework and Requirements

For a discussion of the Firm's regulatory capital framework, see Note 14 to the financial statements in the 2018 Form 10-K.

The Firm is required to maintain minimum risk-based and leverage-based capital ratios under regulatory capital requirements. A summary of the calculations of regulatory capital, RWA and transition provisions follows.

Minimum risk-based capital ratio requirements apply to Common Equity Tier 1 capital, Tier 1 capital and Total capital (which includes Tier 2 capital). Certain adjustments to and deductions from capital are required for purposes of determining these ratios, such as goodwill, intangible assets, certain deferred tax assets, other amounts in AOCI and investments in the capital instruments of unconsolidated financial institutions.

In addition to the minimum risk-based capital ratio requirements, the Firm is subject to the following buffers in 2019:

A greater than 2.5% Common Equity Tier 1 capital conservation buffer;

The Common Equity Tier 1 G-SIB capital surcharge, currently at 3%; and

Up to a 2.5% Common Equity Tier 1 CCyB, currently set by U.S. banking agencies at zero. In 2018, each of these buffers was 75% of the fully phased-in 2019 requirement noted above. Failure to maintain the buffers would result in restrictions on the Firm's ability to make capital distributions, including the payment of dividends and the repurchase of stock, and to pay discretionary bonuses to executive officers.

#### The Firm's Regulatory Capital and Capital Ratios

\$ in millions	Required Ratio <sup>1</sup>	At March 31, 2019	
		Amount	Ratio
<b>Risk-based capital</b>			
Common Equity Tier 1 capital	10.0%	\$ 63,344	16.7%
Tier 1 capital	11.5%	71,910	19.0%
Total capital	13.5%	81,570	21.6%
Total RWA		378,420	
<b>Leverage-based capital</b>			

Edgar Filing: MORGAN STANLEY - Form 10-Q

Tier 1 leverage	<b>4.0%</b>	<b>\$</b>	<b>71,910</b>	<b>8.4%</b>
Adjusted average assets <sup>2</sup>			<b>855,192</b>	
SLR	<b>5.0%</b>		<b>71,910</b>	<b>6.5%</b>
Supplementary leverage exposure <sup>3</sup>			<b>1,104,264</b>	

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)**

<i>\$ in millions</i>	At December 31, 2018		
	Required Ratio <sup>1</sup>	Amount	Ratio
<b>Risk-based capital</b>			
Common Equity Tier 1 capital	8.6%	\$ 62,086	16.9%
Tier 1 capital	10.1%	70,619	19.2%
Total capital	12.1%	80,052	21.8%
Total RWA		367,309	
<b>Leverage-based capital</b>			
Tier 1 leverage	4.0%	\$ 70,619	8.4%
Adjusted average assets <sup>2</sup>		843,074	
SLR	5.0%	70,619	6.5%
Supplementary leverage exposure <sup>3</sup>		1,092,672	

1. Required ratios are inclusive of any buffers applicable as of the date presented. For 2018, the minimum required regulatory capital ratios for risk-based capital are under the transitional rules.
2. Adjusted average assets represents the denominator of the Tier 1 leverage ratio and is composed of the average daily balance of consolidated on-balance sheet assets under U.S. GAAP during the quarters ended March 31, 2019 and December 31, 2018, adjusted for disallowed goodwill, intangible assets, certain deferred tax assets, certain investments in the capital instruments of unconsolidated financial institutions and other adjustments.
3. Supplementary leverage exposure is the sum of Adjusted average assets used in the Tier 1 leverage ratio and other adjustments, primarily (i) potential future exposure for derivative exposures, gross-up for cash collateral netting where qualifying criteria are not met, and the effective notional principal amount of sold credit protection offset by qualifying purchased credit protection; (ii) the counterparty credit risk for repo-style transactions; and (iii) the credit equivalent amount for off-balance sheet exposures.

At March 31, 2019 and December 31, 2018, the Firm's risk-based capital ratios are based on the Standardized Approach rules.

**U.S. Bank Subsidiaries Regulatory Capital and Capital Ratios**

The OCC establishes capital requirements for the Firm's U.S. Bank Subsidiaries and evaluates their compliance with such capital requirements. Regulatory capital requirements for the U.S. Bank Subsidiaries are calculated in a similar manner to the Firm's regulatory capital requirements, although G-SIB capital surcharge requirements do not apply to the U.S. Bank Subsidiaries.

The OCC's regulatory capital framework includes Prompt Corrective Action (PCA) standards, including well-capitalized PCA standards that are based on specified regulatory capital ratio minimums. For the Firm to remain an FHC, the U.S. Bank Subsidiaries must remain well-capitalized in accordance with the OCC's PCA standards. In addition, failure by the U.S. Bank Subsidiaries to meet minimum capital requirements may result in certain mandatory

and discretionary actions by regulators that, if undertaken, could have a direct material effect on the U.S. Bank Subsidiaries and the Firm's financial statements.

At March 31, 2019 and December 31, 2018, the U.S. Bank Subsidiaries' risk-based capital ratios are based on the Standardized Approach rules, and in each period, the ratios exceeded well-capitalized requirements.

### MSBNA's Regulatory Capital

At March 31, 2019			
<i>\$ in millions</i>	Required Ratio <sup>1</sup>	Amount	Ratio
<b>Risk-based capital</b>			
Common Equity Tier 1 capital	6.5%	\$ 16,285	19.9%
Tier 1 capital	8.0%	16,285	19.9%
Total capital	10.0%	16,569	20.2%
<b>Leverage-based capital</b>			
Tier 1 leverage	5.0%	\$ 16,285	11.1%
SLR	6.0%	16,285	8.7%

At December 31, 2018			
<i>\$ in millions</i>	Required Ratio <sup>1</sup>	Amount	Ratio
<b>Risk-based capital</b>			
Common Equity Tier 1 capital	6.5%	\$ 15,221	19.5%
Tier 1 capital	8.0%	15,221	19.5%
Total capital	10.0%	15,484	19.8%
<b>Leverage-based capital</b>			
Tier 1 leverage	5.0%	\$ 15,221	10.5%
SLR	6.0%	15,221	8.2%

### MSPBNA's Regulatory Capital

At March 31, 2019			
<i>\$ in millions</i>	Required Ratio <sup>1</sup>	Amount	Ratio
<b>Risk-based capital</b>			
Common Equity Tier 1 capital	6.5%	\$ 7,545	26.4%
Tier 1 capital	8.0%	7,545	26.4%
Total capital	10.0%	7,590	26.6%
<b>Leverage-based capital</b>			
Tier 1 leverage	5.0%	\$ 7,545	10.1%
SLR	6.0%	7,545	9.7%

At December 31, 2018			
<i>\$ in millions</i>	Required Ratio <sup>1</sup>	Amount	Ratio
<b>Risk-based capital</b>			

Edgar Filing: MORGAN STANLEY - Form 10-Q

Common Equity Tier 1 capital	6.5%	\$	7,183	25.2%
Tier 1 capital	8.0%		7,183	25.2%
Total capital	10.0%		7,229	25.4%
<b>Leverage-based capital</b>				
Tier 1 leverage	5.0%	\$	7,183	10.0%
SLR	6.0%		7,183	9.6%

1. Ratios that are required in order to be considered well-capitalized for U.S. regulatory purposes.



**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****U.S. Broker-Dealer Regulatory Capital Requirements****MS&Co. Regulatory Capital**

<i>\$ in millions</i>	<b>At March 31, 2019</b>	At December 31, 2018
Net capital	<b>\$ 13,925</b>	\$ 13,797
Excess net capital	<b>11,403</b>	11,333

MS&Co. is a registered U.S. broker-dealer and registered futures commission merchant and, accordingly, is subject to the minimum net capital requirements of the SEC and the CFTC. MS&Co. has consistently operated with capital in excess of its regulatory capital requirements.

As an Alternative Net Capital broker-dealer, and in accordance with the market and credit risk standards of Appendix E of SEC Rule 15c3-1, MS&Co. is subject to minimum net capital and tentative net capital requirements. In addition, MS&Co. must notify the SEC if its tentative net capital falls below certain levels. At March 31, 2019 and December 31, 2018, MS&Co. has exceeded its net capital requirement and has tentative net capital in excess of the minimum and notification requirements.

**MSSB LLC Regulatory Capital**

<i>\$ in millions</i>	<b>At March 31, 2019</b>	At December 31, 2018
Net capital	<b>\$ 3,041</b>	\$ 3,455
Excess net capital	<b>2,901</b>	3,313

MSSB LLC is a registered U.S. broker-dealer and introducing broker for the futures business and, accordingly, is subject to the minimum net capital requirements of the SEC. MSSB LLC has consistently operated with capital in excess of its regulatory capital requirements.

**Other Regulated Subsidiaries**

MSIP, a London-based broker-dealer subsidiary, is subject to the capital requirements of the PRA, and MSMS, a Tokyo-based broker-dealer subsidiary, is subject to the capital requirements of the Financial Services Agency. MSIP and MSMS have consistently operated with capital in excess of their respective regulatory capital requirements.

Certain other U.S. and non-U.S. subsidiaries of the Firm are subject to various securities, commodities and banking regulations, and capital adequacy requirements promulgated by the regulatory and exchange authorities of the countries in which they operate. These subsidiaries have consistently operated with capital in excess of their local capital adequacy requirements.

**14. Total Equity**

**Share Repurchases**

<i>\$ in millions</i>	Three Months Ended	
	March 31,	
	2019	2018
Repurchases of common stock under our Share Repurchase Program	<b>\$ 1,180</b>	\$ 1,250

The Firm's 2018 Capital Plan (Capital Plan) includes the share repurchase of up to \$4.7 billion of outstanding common stock for the period beginning July 1, 2018 through June 30, 2019. Additionally, the Capital Plan includes quarterly common stock dividends of up to \$0.30 per share.

A portion of common stock repurchases in the current quarter was conducted under a sales plan with MUFG, whereby MUFG sold shares of the Firm's common stock to the Firm, as part of the Firm's Share Repurchase Program. The sales plan is only intended to maintain MUFG's ownership percentage below 24.9% in order to comply with MUFG's passivity commitments to the Board of Governors of the Federal Reserve System and has no impact on the strategic alliance between MUFG and the Firm, including the joint ventures in Japan.

**Preferred Stock Outstanding**

<i>\$ in millions, except</i>	Shares	Liquidation	Carrying Value	
	Outstanding		At	At
<i>per share data</i>	At	Preference	March 31,	December 31,
<b>Series</b>	<b>March 31,</b>	per Share	<b>2019</b>	<b>2018</b>
A	<b>44,000</b>	<b>\$ 25,000</b>	<b>\$ 1,100</b>	\$ 1,100
C <sup>1</sup>	<b>519,882</b>	<b>1,000</b>	<b>408</b>	408
E	<b>34,500</b>	<b>25,000</b>	<b>862</b>	862
F	<b>34,000</b>	<b>25,000</b>	<b>850</b>	850
G	<b>20,000</b>	<b>25,000</b>	<b>500</b>	500
H	<b>52,000</b>	<b>25,000</b>	<b>1,300</b>	1,300
I	<b>40,000</b>	<b>25,000</b>	<b>1,000</b>	1,000
J	<b>60,000</b>	<b>25,000</b>	<b>1,500</b>	1,500
K	<b>40,000</b>	<b>25,000</b>	<b>1,000</b>	1,000
<b>Total</b>			<b>\$ 8,520</b>	\$ 8,520

1. Series C is composed of the issuance of 1,160,791 shares of Series C Preferred Stock to MUFG for an aggregate purchase price of \$911 million, less the redemption of 640,909 shares of Series C Preferred Stock of \$503 million, which were converted to common shares of approximately \$705 million.

For a description of Series A through Series K preferred stock issuances, see Note 15 to the financial statements in the 2018 Form 10-K. The Firm is authorized to issue 30 million shares of preferred stock. The preferred stock has a preference over the common stock upon liquidation. The Firm's preferred stock qualifies as Tier 1 capital in accordance with regulatory capital requirements (see Note 13).



Table of Contents

## Notes to Consolidated Financial Statements

(Unaudited)

## Preferred Stock Dividends

\$ in millions, except per

share data Series	Three Months Ended March 31, 2019		Three Months Ended March 31, 2018	
	Per Share <sup>1</sup>	Total	Per Share <sup>1</sup>	Total
A	\$ 250	\$ 11	\$ 250	\$ 11
C	25	13	25	13
E	445	15	445	15
F	430	15	430	15
G	414	8	414	8
I	398	16	398	16
K	366	15	366	15
<b>Total</b>		<b>\$ 93</b>		<b>\$ 93</b>

1. In addition to the dividends on the series of preferred stock included above, which are payable quarterly, Series H and J are payable semiannually until July 15, 2019 and July 15, 2020, respectively, and quarterly thereafter.

Accumulated Other Comprehensive Income (Loss)<sup>1</sup>

\$ in millions	Foreign Currency Translation Adjustments	AFS Securities	Pension, Postretirement and Other	DVA	Total
December 31, 2018	\$ (889)	\$ (930)	\$ (578)	\$ 105	\$ (2,292)
OCI during the period	(12)	429	1	(599)	(181)
<b>March 31, 2019</b>	<b>\$ (901)</b>	<b>\$ (501)</b>	<b>\$ (577)</b>	<b>\$ (494)</b>	<b>\$ (2,473)</b>
December 31, 2017	\$ (767)	\$ (547)	\$ (591)	\$ (1,155)	\$ (3,060)
Cumulative adjustment for accounting changes <sup>2</sup>	(8)	(111)	(124)	(194)	(437)
OCI during the period	60	(410)	5	436	91
March 31, 2018	\$ (715)	\$ (1,068)	\$ (710)	\$ (913)	\$ (3,406)

1. Amounts are net of tax and exclude noncontrolling interests.
2. The cumulative adjustment for accounting changes is primarily the effect of the adoption of the accounting update *Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income*. This adjustment was recorded as of January 1, 2018 to reclassify certain income tax effects related to enactment of the Tax Act from AOCI to Retained earnings, primarily related to the remeasurement of deferred tax assets and liabilities resulting from the reduction in the corporate income tax rate to 21%. See Note 2 for further information.

### Components of Period Changes in OCI

<i>\$ in millions</i>	Three Months Ended					
	March 31, 2019 <sup>1</sup>					
	Pre-tax Gain (Loss)	Income Tax Benefit (Provision)	After-tax Gain (Loss)	Non- controlling Interests	Net	
<b>Foreign currency translation adjustments</b>						
OCI activity	\$ (4)	\$ (18)	\$ (22)	\$ (10)	\$ (12)	
Reclassified to earnings						
<b>Net OCI</b>	<b>\$ (4)</b>	<b>\$ (18)</b>	<b>\$ (22)</b>	<b>\$ (10)</b>	<b>\$ (12)</b>	
<b>Change in net unrealized gains (losses) on AFS securities</b>						
OCI activity	\$ 570	\$ (133)	\$ 437		\$ 437	
Reclassified to earnings	(10)	2	(8)		(8)	
<b>Net OCI</b>	<b>\$ 560</b>	<b>\$ (131)</b>	<b>\$ 429</b>		<b>\$ 429</b>	
<b>Pension, postretirement and other</b>						
OCI activity	\$	\$ (1)	\$ (1)		\$ (1)	
Reclassified to earnings	3	(1)	2		2	
<b>Net OCI</b>	<b>\$ 3</b>	<b>\$ (2)</b>	<b>\$ 1</b>		<b>\$ 1</b>	
<b>Change in net DVA</b>						
OCI activity	\$ (824)	\$ 201	\$ (623)	\$ (21)	\$ (602)	
Reclassified to earnings	4	(1)	3		3	
<b>Net OCI</b>	<b>\$ (820)</b>	<b>\$ 200</b>	<b>\$ (620)</b>	<b>\$ (21)</b>	<b>\$ (599)</b>	
	Three Months Ended March 31, 2018 <sup>1</sup>					
<i>\$ in millions</i>	Pre-tax Gain (Loss)	Income Tax Benefit (Provision)	After-tax Gain (Loss)	Non- controlling Interests	Net	
<b>Foreign currency translation adjustments</b>						
OCI activity	\$ 78	\$ 39	\$ 117	\$ 57	\$ 60	
Reclassified to earnings						
<b>Net OCI</b>	<b>\$ 78</b>	<b>\$ 39</b>	<b>\$ 117</b>	<b>\$ 57</b>	<b>\$ 60</b>	

<b>Change in net unrealized gains (losses) on AFS securities</b>										
OCI activity	\$	(535)	\$	125	\$	(410)	\$	(410)		
Reclassified to earnings										
<b>Net OCI</b>	<b>\$</b>	<b>(535)</b>	<b>\$</b>	<b>125</b>	<b>\$</b>	<b>(410)</b>	<b>\$</b>	<b>(410)</b>		
<b>Pension, postretirement and other</b>										
OCI activity	\$		\$		\$		\$			
Reclassified to earnings		6		(1)		5		5		
<b>Net OCI</b>	<b>\$</b>	<b>6</b>	<b>\$</b>	<b>(1)</b>	<b>\$</b>	<b>5</b>	<b>\$</b>	<b>5</b>		
<b>Change in net DVA</b>										
OCI activity	\$	580	\$	(140)	\$	440	\$	15	\$	425
Reclassified to earnings		15		(4)		11				11
<b>Net OCI</b>	<b>\$</b>	<b>595</b>	<b>\$</b>	<b>(144)</b>	<b>\$</b>	<b>451</b>	<b>\$</b>	<b>15</b>	<b>\$</b>	<b>436</b>

1. Exclusive of cumulative adjustments related to the adoption of certain accounting updates. Refer to the table below and Note 2 for further information.

#### **Cumulative Adjustments to Retained Earnings Related to Adoption of Accounting Updates**

	<b>Three Months Ended March 31, 2019</b>
<i>\$ in millions</i>	
Leases	<b>\$ 63</b>
	Three Months Ended
<i>\$ in millions</i>	March 31, 2018
Revenues from contracts with customers <sup>1</sup>	(32)
Derivatives and hedging targeted improvements to accounting for hedging activities <sup>1</sup>	(99)
Reclassification of certain tax effects from AOCI <sup>1</sup>	\$ 443
Other <sup>2</sup>	(6)
<b>Total</b>	<b>\$ 306</b>

1. See Note 2 to the 2018 Form 10-K for further information.

2. Other includes the adoption of accounting updates related to *Recognition and Measurement of Financial Assets and Financial Liabilities* (other than the provision around presenting unrealized DVA in OCI, which the Firm early adopted in 2016) and *Derecognition of Nonfinancial Assets*. The impact of these adoptions on Retained earnings was not significant.

Table of Contents

## Notes to Consolidated Financial Statements

(Unaudited)

## 15. Earnings per Common Share

	Three Months Ended	
	March 31,	
<i>in millions, except for per share data</i>	2019	2018
<b>Earnings applicable to Morgan Stanley common shareholders</b>	\$ 2,336	\$ 2,575
<b>Basic EPS</b>		
Weighted average common shares outstanding	1,658	1,740
<b>Earnings per basic common share</b>	\$ 1.41	\$ 1.48
<b>Diluted EPS</b>		
Weighted average common shares outstanding	1,658	1,740
Effect of dilutive RSUs and PSUs	19	31
<b>Weighted average common shares outstanding and common stock equivalents</b>	1,677	1,771
<b>Earnings per diluted common share</b>	\$ 1.39	\$ 1.45
Weighted average antidilutive RSUs (excluded from the computation of diluted EPS)	6	1

## 16. Interest Income and Interest Expense

	Three Months Ended	
	March 31,	
<i>\$ in millions</i>	2019	2018
<b>Interest income</b>		
Investment securities	\$ 475	\$ 424
Loans	1,195	938
Securities purchased under agreements to resell and Securities borrowed <sup>1</sup>	947	215
Trading assets, net of Trading liabilities	713	540
Customer receivables and Other <sup>2</sup>	960	743
<b>Total interest income</b>	\$ 4,290	\$ 2,860

**Interest expense**

Deposits	\$	462	\$	159
Borrowings		1,380		1,138
Securities sold under agreements to repurchase and Securities loaned <sup>3</sup>		600		402
Customer payables and Other <sup>4</sup>		834		186
<b>Total interest expense</b>	\$	<b>3,276</b>	\$	<b>1,885</b>
<b>Net interest</b>	\$	<b>1,014</b>	\$	<b>975</b>

1. Includes fees paid on Securities borrowed.
2. Includes interest from Customer receivables and Cash and cash equivalents.
3. Includes fees received on Securities loaned.
4. Includes fees received from prime brokerage customers for stock loan transactions entered into to cover customers short positions.

Interest income and Interest expense are classified in the income statements based on the nature of the instrument and related market conventions. When included as a component of the instrument's fair value, interest is included within Trading revenues or Investments revenues. Otherwise, it is included within Interest income or Interest expense.

**17. Income Taxes**

The Firm is under continuous examination by the IRS and other tax authorities in certain countries, such as Japan and the U.K., and in states and localities in which it has significant business operations, such as New York. The Firm has established a liability for unrecognized tax benefits, and associated interest, if applicable ( tax liabilities ), that it believes is adequate in relation to the potential for additional assessments. Once established, the Firm adjusts such tax liabilities only when new information is available or when an event occurs necessitating a change.

The Firm believes that the resolution of the above tax examinations will not have a material effect on the annual financial statements, although a resolution could have a material impact in the income statements and on the effective tax rate for any period in which such resolution occurs.

See Note 11 regarding the Dutch Tax Authority's challenge, in the District Court in Amsterdam (matters styled *Case number 15/3637* and *Case number 15/4353*), of the Firm's entitlement to certain withholding tax credits which may impact the balance of unrecognized tax benefits.

It is reasonably possible that significant changes in the balance of unrecognized tax benefits occur within the next 12 months. At this time, however, it is not possible to reasonably estimate the expected change to the total amount of unrecognized tax benefits and the impact on the Firm's effective tax rate over the next 12 months.

The Firm's effective tax rate for the current quarter included recurring-type discrete tax benefits associated with employee share-based payments of \$107 million. The Firm's effective tax rate for the current quarter included an intermittent net discrete tax benefit of \$101 million primarily associated with the remeasurement of reserves and related interest due to new information with regard to multi-jurisdiction tax examinations.



**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****18. Segment, Geographic and Revenue****Information****Segment Information****Selected Financial Information by Business Segment**

<i>\$ in millions</i>	Three Months Ended March 31, 2019				
	IS	WM	IM	I/E	Total
Investment banking <sup>1, 2</sup>	\$ 1,151	\$ 109	\$	\$ (18)	\$ 1,242
Trading	3,130	302	(3)	12	3,441
Investments	81	1	191		273
Commissions and fees <sup>1</sup>	621	406		(61)	966
Asset management <sup>1</sup>	107	2,361	617	(36)	3,049
Other	222	80	3	(4)	301
Total non-interest revenues <sup>3, 4</sup>	5,312	3,259	808	(107)	9,272
Interest income	3,056	1,413	4	(183)	4,290
Interest expense	3,172	283	8	(187)	3,276
Net interest	(116)	1,130	(4)	4	1,014
<b>Net revenues</b>	<b>\$ 5,196</b>	<b>\$ 4,389</b>	<b>\$ 804</b>	<b>\$ (103)</b>	<b>\$ 10,286</b>
Income from continuing operations before income taxes	\$ 1,595	\$ 1,188	\$ 174	\$ (2)	\$ 2,955
Provision for income taxes	190	264	33		487
Income from continuing operations	1,405	924	141	(2)	2,468
Income (loss) from discontinued operations, net of income taxes					
Net income	1,405	924	141	(2)	2,468
Net income applicable to noncontrolling interests	34		5		39
<b>Net income applicable to Morgan Stanley</b>	<b>\$ 1,371</b>	<b>\$ 924</b>	<b>\$ 136</b>	<b>\$ (2)</b>	<b>\$ 2,429</b>
		Three Months Ended March 31, 2018			
<i>\$ in millions</i>	IS	WM	IM	I/E	Total
Investment banking <sup>1, 2</sup>	\$ 1,513	\$ 140	\$	\$ (19)	\$ 1,634

Edgar Filing: MORGAN STANLEY - Form 10-Q

Trading	3,643	109	5	13	3,770
Investments	49		77		126
Commissions and fees <sup>1</sup>	744	498		(69)	1,173
Asset management <sup>1</sup>	110	2,495	626	(39)	3,192
Other	136	63	10	(2)	207
Total non-interest revenues <sup>3, 4</sup>	6,195	3,305	718	(116)	10,102
Interest income	1,804	1,280	1	(225)	2,860
Interest expense	1,899	211	1	(226)	1,885
Net interest	(95)	1,069		1	975
<b>Net revenues</b>	<b>\$ 6,100</b>	<b>\$ 4,374</b>	<b>\$ 718</b>	<b>\$ (115)</b>	<b>\$ 11,077</b>
Income from continuing operations before income taxes	\$ 2,112	\$ 1,160	\$ 148	\$	\$ 3,420
Provision for income taxes	449	246	19		714
Income from continuing operations	1,663	914	129		2,706
Income (loss) from discontinued operations, net of income taxes	(2)				(2)
Net income	1,661	914	129		2,704
Net income applicable to noncontrolling interests	34		2		36
<b>Net income applicable to Morgan Stanley</b>	<b>\$ 1,627</b>	<b>\$ 914</b>	<b>\$ 127</b>	<b>\$</b>	<b>\$ 2,668</b>

I/E Intersegment Eliminations

1. Approximately 85% of Investment banking revenues and substantially all of Commissions and fees and Asset management revenues in the current quarter and prior year quarter were accounted for under the *Revenues from Contracts with Customers* accounting update.
2. Current quarter Institutional Securities Investment banking revenues are composed of \$406 million of Advisory and \$745 million of Underwriting revenues. Prior year quarter Institutional Securities Investment banking revenues are composed of \$574 million of Advisory and \$939 million of Underwriting revenues.
3. The Firm enters into certain contracts which contain a current obligation to perform services in the future. Excluding contracts where billing is commensurate with the value of the services performed at each stage of the contract, contracts with variable consideration that is subject to reversal, and contracts with less than one year duration, we expect to record the following approximate revenues in the future: \$105 million in the remainder of 2019 and \$105 million in 2020; between \$40 million and \$70 million per year in 2021 through 2025; and \$10 million per year thereafter through 2035. These revenues are primarily related to certain commodities contracts with customers.
4. Includes \$671 million and \$902 million in revenue recognized in the current quarter and prior year quarter, respectively, where some or all services were performed in prior periods. This amount is primarily composed of investment banking advisory fees and distribution fees.

For a discussion about the Firm's business segments, see Note 21 to the financial statements in the 2018 Form 10-K.

**Table of Contents****Notes to Consolidated Financial Statements****(Unaudited)****Total Assets by Business Segment**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Institutional Securities	\$ 675,770	\$ 646,427
Wealth Management	194,897	202,392
Investment Management	5,297	4,712
<b>Total<sup>1</sup></b>	<b>\$ 875,964</b>	<b>\$ 853,531</b>

1. Parent assets have been fully allocated to the business segments.

*Additional Segment Information Investment Management***Net Unrealized Carried Interest**

<i>\$ in millions</i>	At March 31, 2019	At December 31, 2018
Net cumulative unrealized carried interest at risk of reversing	\$ 469	\$ 434

The Firm's portion of net cumulative unrealized carried interest (for which the Firm is not obligated to pay compensation) are at risk of reversing if the fund performance falls below the stated investment management agreement benchmarks. See Note 11 for information regarding general partner guarantees, which include potential obligations to return performance-based fees in the form of carried interest previously received.

**Reduction of Fees due to Fee Waivers**

<i>\$ in millions</i>	Three Months Ended March 31, 2019	2018
Fee waivers	\$ 11	\$ 18

The Firm waives a portion of its fees in the Investment Management business segment from certain registered money market funds that comply with the requirements of Rule 2a-7 of the Investment Company Act of 1940.

Separately, the Firm's employees, including its senior officers, may participate on the same terms and conditions as other investors in certain funds that the Firm sponsors primarily for client investment, and the Firm may waive or lower applicable fees and charges for its employees.

## Geographic Information

### Net Revenues by Region

<i>\$ in millions</i>	Three Months Ended March 31,	
	2019	2018
Americas	\$ 7,321	\$ 8,018
EMEA	1,702	1,708
Asia	1,263	1,351
<b>Total</b>	<b>\$ 10,286</b>	<b>\$ 11,077</b>

For a discussion about the Firm's geographic net revenues, see Note 21 to the financial statements in the 2018 Form 10-K.

## Revenue Information

### Trading Revenues by Product Type

<i>\$ in millions</i>	Three Months Ended March 31,	
	2019	2018
Interest rate	\$ 785	\$ 871
Foreign exchange	241	261
Equity security and index <sup>1</sup>	1,451	1,877
Commodity and other	422	435
Credit	542	326
<b>Total</b>	<b>\$ 3,441</b>	<b>\$ 3,770</b>

1. Dividend income is included within equity security and index contracts.

The previous table summarizes gains and losses included in Trading revenues in the income statements. These activities include revenues related to derivative and non-derivative financial instruments. The Firm generally utilizes financial instruments across a variety of product types in connection with its market-making and related risk management strategies. The trading revenues presented in the table are not representative of the manner in which the Firm manages its business activities and are prepared in a manner similar to the presentation of trading revenues for regulatory reporting purposes.

## Receivables related to Revenues from Contracts with Customers

At  
March 31,

At  
December 31,

<i>\$ in millions</i>	2019	2018
Customer and other receivables	\$ 2,206	\$ 2,308

Receivables from contracts with customers, which are included within Customer and other receivables in the balance sheets, arise when the Firm has both recorded revenues and has the right per the contract to bill the customer.

### 19. Subsequent Events

The Firm has evaluated subsequent events for adjustment to or disclosure in the financial statements through the date of this report and has not identified any recordable or disclosable events not otherwise reported in these financial statements or the notes thereto.

**Table of Contents****Financial Data Supplement (Unaudited)****Average Balances and Interest Rates and Net Interest Income**

<i>\$ in millions</i>	Three Months Ended March 31,					
	2019			2018		
	Average Daily Balance	Interest	Annualized Average Rate	Average Daily Balance	Interest	Annualized Average Rate
<b>Interest earning assets</b>						
Investment securities <sup>1</sup>	\$ 94,906	\$ 475	2.0 %	\$ 80,532	\$ 424	2.1 %
Loans <sup>1</sup>	116,698	1,195	4.2	104,407	938	3.6
Securities purchased under agreements to resell and Securities borrowed <sup>2</sup> :						
U.S.	141,806	934	2.7	124,172	309	1.0
Non-U.S.	77,256	13	0.1	87,581	(94)	(0.4)
Trading assets, net of Trading liabilities <sup>3</sup> :						
U.S.	74,152	631	3.5	53,488	487	3.7
Non-U.S.	11,861	82	2.8	5,059	53	4.2
Customer receivables and Other <sup>4</sup> :						
U.S.	63,649	697	4.4	74,118	542	3.0
Non-U.S.	55,142	263	1.9	50,080	201	1.6
<b>Total</b>	<b>\$ 635,470</b>	<b>\$ 4,290</b>	<b>2.7 %</b>	<b>\$ 579,437</b>	<b>\$ 2,860</b>	<b>2.0 %</b>
<b>Interest bearing liabilities</b>						
Deposits <sup>1</sup>	\$ 181,017	\$ 462	1.0 %	\$ 159,948	\$ 159	0.4 %
Borrowings <sup>1,5</sup>	189,181	1,380	3.0	194,558	1,138	2.4
Securities sold under agreements to repurchase and Securities loaned <sup>6</sup> :						
U.S.	26,615	450	6.9	25,009	286	4.6
Non-U.S.	32,350	150	1.9	40,675	116	1.2
Customer payables and Other <sup>7</sup> :						
U.S.	117,932	554	1.9	121,438	49	0.2
Non-U.S.	65,498	280	1.7	69,646	137	0.8
<b>Total</b>	<b>\$ 612,593</b>	<b>\$ 3,276</b>	<b>2.2 %</b>	<b>\$ 611,274</b>	<b>\$ 1,885</b>	<b>1.3 %</b>
<b>Net interest income and net interest rate spread</b>		<b>\$ 1,014</b>	<b>0.5 %</b>		<b>\$ 975</b>	<b>0.7 %</b>

1. Amounts include primarily U.S. balances.
2. Includes fees paid on Securities borrowed.
3. Excludes non-interest earning assets and non-interest bearing liabilities, such as equity securities.
4. Includes interest from Customer receivables and Cash and cash equivalents. Prior period amounts have been revised to conform to the current presentation.
5. Includes structured notes, whose interest expense is considered part of its value and therefore is recorded within Trading revenues.
6. Includes fees received on Securities loaned. The annualized average rate was calculated using (a) interest expense incurred on all securities sold under agreements to repurchase and securities loaned transactions, whether or not such transactions were reported in the balance sheets and (b) net average on-balance sheet balances, which exclude certain securities-for-securities transactions.
7. Includes fees received from prime brokerage customers for stock loan transactions entered into to cover customers short positions.

**Table of Contents****Glossary of Common Acronyms**

<b>2018 Form 10-K</b>	Annual Report on Form 10-K for year ended December 31, 2018 filed with the SEC
<b>ABS</b>	Asset-backed securities
<b>AFS</b>	Available-for-sale
<b>AML</b>	Anti-money laundering
<b>AOCI</b>	Accumulated other comprehensive income (loss)
<b>AUM</b>	Assets under management or supervision
<b>BEAT</b>	Base erosion and anti-abuse tax
<b>BHC</b>	Bank holding company
<b>bps</b>	Basis points; one basis point equals 1/100th of 1%
<b>CCAR</b>	Comprehensive Capital Analysis and Review
<b>CCyB</b>	Countercyclical capital buffer
<b>CDO</b>	Collateralized debt obligation(s), including Collateralized loan obligation(s)
<b>CDS</b>	Credit default swaps
<b>CECL</b>	Current expected credit loss
<b>CFTC</b>	U.S. Commodity Futures Trading Commission
<b>CLN</b>	Credit-linked note(s)
<b>CLO</b>	Collateralized loan obligation(s)
<b>CMBS</b>	Commercial mortgage-backed securities
<b>CMO</b>	Collateralized mortgage obligation(s)
<b>CVA</b>	Credit valuation adjustment
<b>DVA</b>	Debt valuation adjustment
<b>EBITDA</b>	Earnings before interest, taxes, depreciation and amortization
<b>ELN</b>	Equity-linked note(s)
<b>EMEA</b>	Europe, Middle East and Africa



<b>EPS</b>	Earnings per common share
<b>E.U.</b>	European Union
<b>FDIC</b>	Federal Deposit Insurance Corporation
<b>FFELP</b>	Federal Family Education Loan Program
<b>FFIEC</b>	Federal Financial Institutions Examination Council
<b>FHC</b>	Financial Holding Company
<b>FICO</b>	Fair Isaac Corporation
<b>FVA</b>	Funding valuation adjustment
<b>GILTI</b>	Global Intangible Low-Taxed Income
<b>GLR</b>	Global liquidity reserve
<b>G-SIB</b>	Global systemically important banks
<b>HELOC</b>	Home Equity Line of Credit
<b>HQLA</b>	High-quality liquid assets
<b>HTM</b>	Held-to-maturity
<b>I/E</b>	Intersegment eliminations
<b>IHC</b>	Intermediate holding company
<b>IM</b>	Investment Management
<b>IRS</b>	Internal Revenue Service
<b>IS</b>	Institutional Securities
<b>LCR</b>	Liquidity coverage ratio, as adopted by the U.S. banking agencies
<b>LIBOR</b>	London Interbank Offered Rate
<b>M&amp;A</b>	Merger, acquisition and restructuring transaction
<b>MSBNA</b>	Morgan Stanley Bank, N.A.

**Table of Contents****Glossary of Common Acronyms**

<b>MS&amp;Co.</b>	Morgan Stanley & Co. LLC
<b>MSIP</b>	Morgan Stanley & Co. International plc
<b>MSMS</b>	Morgan Stanley MUFG Securities Co., Ltd.
<b>MSPBNA</b>	Morgan Stanley Private Bank, National Association
<b>MSSB LLC</b>	Morgan Stanley Smith Barney LLC
<b>MUFG</b>	Mitsubishi UFJ Financial Group, Inc.
<b>MUMSS</b>	Mitsubishi UFJ Morgan Stanley Securities Co., Ltd.
<b>MWh</b>	Megawatt hour
<b>N/A</b>	Not Applicable
<b>NAV</b>	Net asset value
<b>N/M</b>	Not Meaningful
<b>Non-GAAP</b>	Non-generally accepted accounting principles
<b>NSFR</b>	Net stable funding ratio, as proposed by the U.S. banking agencies
<b>OCC</b>	Office of the Comptroller of the Currency
<b>OCI</b>	Other comprehensive income (loss)
<b>OIS</b>	Overnight index swap
<b>OTC</b>	Over-the-counter
<b>PRA</b>	Prudential Regulation Authority
<b>PSU</b>	Performance-based stock unit
<b>RMBS</b>	Residential mortgage-backed securities
<b>ROE</b>	Return on average common equity
<b>ROTCE</b>	Return on average tangible common equity
<b>ROU</b>	Right-of-use
<b>RSU</b>	Restricted stock unit

<b>RWA</b>	Risk-weighted assets
<b>SEC</b>	U.S. Securities and Exchange Commission
<b>SLR</b>	Supplementary leverage ratio
<b>S&amp;P</b>	Standard & Poor's
<b>SPE</b>	Special purpose entity
<b>SPOE</b>	Single point of entry
<b>TDR</b>	Troubled debt restructuring
<b>TLAC</b>	Total loss-absorbing capacity
<b>U.K.</b>	United Kingdom
<b>UPB</b>	Unpaid principal balance
<b>U.S.</b>	United States of America
<b>U.S. DOL</b>	U.S. Department of Labor
<b>U.S. GAAP</b>	Accounting principles generally accepted in the United States of America
<b>VaR</b>	Value-at-Risk
<b>VAT</b>	Value-added tax
<b>VIE</b>	Variable interest entity
<b>WACC</b>	Implied weighted average cost of capital
<b>WM</b>	Wealth Management

**Table of Contents**

**Other Information**

**Legal Proceedings**

The following new matters and developments have occurred since previously reporting certain matters in the Firm's 2018 Form 10-K. See also the disclosures set forth under "Legal Proceedings" in the 2018 Form 10-K.

**Residential Mortgage and Credit Crisis Related Matters**

On February 15, 2019, the Firm filed a motion for leave to appeal, or in the alternative, for the re-argument of the First Department's January 17, 2019 decision in *Deutsche Bank National Trust Company solely in its capacity as Trustee of the Morgan Stanley ABS Capital I Inc. Trust 2007-NC4 v. Morgan Stanley Mortgage Capital Holdings LLC as Successor-by-Merger to Morgan Stanley Mortgage Capital Inc., and Morgan Stanley ABS Capital I Inc.*

On March 7, 2019, in the matter styled *China Development Industrial Bank v. Morgan Stanley & Co, Incorporated, et al*, the court denied the relief that CDIB sought in a motion to clarify and resettle the portion of the court's December 21, 2018 order granting spoliation sanctions.

On April 4, 2019, the court denied the Firm's motion to renew its motion to dismiss in *U.S. Bank National Association, solely in its capacity as Trustee of the Morgan Stanley Mortgage Loan Trust 2007-2AX (MSM 2007-2AX) v. Morgan Stanley Mortgage Capital Holdings LLC, Successor-by-Merger to Morgan Stanley Mortgage Capital Inc. and GreenPoint Mortgage Funding, Inc.*

On April 24, 2019, the parties in *California v. Morgan Stanley, et al.*, reached an agreement to settle the litigation.

**Antitrust Related Matter**

Beginning on March 25, 2019, the Firm was named as a defendant in a series of putative class action complaints filed in the Southern District of New York, the first of which is styled *Alaska Electrical Pension Fund v. BofA Secs., Inc., et al*. Each complaint alleges a conspiracy to fix prices and restrain competition in the market for unsecured bonds issued by the following Government-Sponsored Enterprises: the Federal National Mortgage Associate; the Federal Home Loan Mortgage Corporation; the Federal Farm Credit Banks Funding Corporation; and the Federal Home Loan Banks. The purported class period for each suit is from January 1, 2012 to June 1, 2018. Each complaint raises a claim under Section 1 of the Sherman Act and seeks, among other things, injunctive relief and treble compensatory damages.

**European Matters**

On March 7, 2019, the Appellate Division of the Court of Accounts for the Republic of Italy issued a decision in the matter styled *Case No. 2012/00406/MNV* affirming the decision below declining jurisdiction and dismissing the claim against the Firm. On April 19, 2019, the public prosecutor filed an appeal with the Italian Supreme Court seeking to

overturn this decision.

On March 11, 2019, the plaintiff in the matter styled *Banco Popolare Società Cooperativa v Morgan Stanley & Co. International plc & others* filed an appeal in the Court of Appeal of Milan against the lower Milan court's decision dated September 11, 2018 dismissing the claim against the Firm.

**Table of Contents****Unregistered Sales of Equity Securities and Use of Proceeds**

The following table sets forth the information with respect to purchases made by or on behalf of the Firm of its common stock during the current quarter ended March 31, 2019.

**Issuer Purchases of Equity Securities**

<i>\$ in millions, except per share data</i>	Total Number of Shares Purchased	Average Price Paid Per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs <sup>1</sup>	Approximate Dollar Value of Shares that May Yet be Purchased Under the Plans or Programs
<b>Month #1 (January 1, 2019 - January 31, 2019)</b>				
Share Repurchase Program <sup>2</sup>	4,408,695	\$ 42.54	4,408,695	\$ 2,172
Employee transactions <sup>3</sup>	10,089,356	\$ 42.52		
<b>Month #2 (February 1, 2019 - February 28, 2019)</b>				
Share Repurchase Program <sup>2</sup>	8,886,000	\$ 41.83	8,886,000	\$ 1,801
Employee transactions <sup>3</sup>	709,539	\$ 42.18		
<b>Month #3 (March 1, 2019 - March 31, 2019)</b>				
Share Repurchase Program <sup>2</sup>	14,672,111	\$ 42.31	14,672,111	\$ 1,180
Employee transactions <sup>3</sup>	156,953	\$ 42.01		
<b>Quarter ended at March 31, 2019</b>				
Share Repurchase Program <sup>2</sup>	27,966,806	\$ 42.19	27,966,806	\$ 1,180
Employee transactions <sup>3</sup>	10,955,848	\$ 42.49		

1. Share purchases under publicly announced programs are made pursuant to open-market purchases, Rule 10b5-1 plans or privately negotiated transactions (including with employee benefit plans) as market conditions warrant and at prices the Firm deems appropriate and may be suspended at any time. On April 18, 2018, the Firm entered into a sales plan with Mitsubishi UFJ Financial Group, Inc. ( MUFG ) and Morgan Stanley & Co. LLC ( MS&Co. ) whereby MUFG sold shares of the Firm's common stock to the Firm, through the Firm's agent MS&Co., as part of the Company's Share Repurchase Program (as defined below). The sales plan is only intended to maintain MUFG's ownership percentage below 24.9% in order to comply with MUFG's passivity commitments to the Board of

Governors of the Federal Reserve System (the Federal Reserve ) and has no impact on the strategic alliance between MUFG and the Firm, including the joint ventures in Japan.

2. The Firm's Board of Directors has authorized the repurchase of the Firm's outstanding stock under a share repurchase program (the Share Repurchase Program ). The Share Repurchase Program is a program for capital management purposes that considers, among other things, business segment capital needs, as well as equity-based compensation and benefit plan requirements. The Share Repurchase Program has no set expiration or termination date. Share repurchases by the Firm are subject to regulatory approval. On June 28, 2018, the Federal Reserve published summary results of CCAR and the Firm received a conditional non-objection to its 2018 Capital Plan, where the only condition was that the Firm's capital distributions not exceed the greater of the actual distributions it made over the previous four calendar quarters or the annualized average of actual distributions over the previous eight calendar quarters. As a result, the Firm's 2018 Capital Plan includes a share repurchase of up to \$4.7 billion of its outstanding common stock during the period beginning July 1, 2018 through June 30, 2019. During the quarter ended March 31, 2019, the Firm repurchased approximately \$1.2 billion of the Firm's outstanding common stock as part of its Share Repurchase Program. For further information, see Liquidity and Capital Resources Capital Management.
3. Includes shares acquired by the Firm in satisfaction of the tax withholding obligations on stock-based awards granted under the Firm's stock-based compensation plans.

**Table of Contents**

**Controls and Procedures**

Under the supervision and with the participation of the Firm's management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of the Firm's disclosure controls and procedures (as defined in Rule 13a-15(e) of the Securities Exchange Act of 1934, as amended (the Exchange Act)). Based on this evaluation, our 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.

No change in the Firm's internal control over financial reporting (as defined in Rule 13a-15(f) of the Exchange Act) occurred during the period covered by this report that materially affected, or is reasonably likely to materially affect, the Firm's internal control over financial reporting.

**Exhibits**

An exhibit index has been filed as part of this Report on page E-1.



**Table of Contents**

**Exhibit Index**

**Morgan Stanley**

**Quarter Ended March 31, 2019**

<b>Exhibit No.</b>	<b>Description</b>
15	<u>Letter of awareness from Deloitte &amp; Touche LLP, dated May 3, 2019, concerning unaudited interim financial information.</u>
23	<u>Consent of Shearman &amp; Sterling LLP, as Special Tax Counsel for Certain Structured Product Issuances.</u>
31.1	<u>Rule 13a-14(a) Certification of Chief Executive Officer.</u>
31.2	<u>Rule 13a-14(a) Certification of Chief Financial Officer.</u>
32.1	<u>Section 1350 Certification of Chief Executive Officer.</u>
32.2	<u>Section 1350 Certification of Chief Financial Officer.</u>
101	Interactive data files pursuant to Rule 405 of Regulation S-T (unaudited): (i) the Consolidated Income Statements Three Months Ended March 31, 2019 and 2018, (ii) the Consolidated Comprehensive Income Statements Three Months Ended March 31, 2019 and 2018, (iii) the Consolidated Balance Sheets Unaudited at March 31, 2019 and at December 31, 2018, (iv) the Consolidated Statements of Changes in Total Equity Three Months Ended March 31, 2019 and 2018, (v) the Consolidated Cash Flow Statements Three Months Ended March 31, 2019 and 2018, and (vi) Notes to Consolidated Financial Statements.

Table of Contents

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

MORGAN STANLEY

**(Registrant)**

By: /s/ JONATHAN PRUZAN  
**Jonathan Pruzan**

**Executive Vice President and**

**Chief Financial Officer**

By: /s/ PAUL C. WIRTH  
**Paul C. Wirth**

**Deputy Chief Financial Officer**

Date: May 3, 2019

S-1