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

Morgan Stanley

(Exact Name of Registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)	1585 Broadway New York, NY 10036 (Address of principal executive offices, including zip code)	36-3145972 (I.R.S. Employer Identification No.)	(212) 761-4000 (Registrant's telephone number, including area code)
Securities registered pursuant	to Section 12(b) of the Act:		
Title of each class		Name of exchang which register	
Common Stock, \$0.01 par value		New York Stock Ex	schange MS
Depositary Shares, each representing 1/ Non-Cumulative Preferred Stock, Se	_	nte New York Stock Ex	schange MS/PA
Depositary Shares, each representing 1/ Non-Cumulative Preferred Stock, Se		oating Rate New York Stock Ex	schange MS/PE
Depositary Shares, each representing 1/ Non-Cumulative Preferred Stock, Se		oating Rate New York Stock Ex	schange MS/PF
Depositary Shares, each representing 1/ Non-Cumulative Preferred Stock, Se		New York Stock Ex	schange MS/PG
Depositary Shares, each representing 1/ Non-Cumulative Preferred Stock, Se		oating Rate New York Stock Ex	schange MS/PI
Depositary Shares, each representing 1/ Non-Cumulative Preferred Stock, Se		oating Rate New York Stock Ex	schange MS/PK
Global Medium-Term Notes, Series A, I Morgan Stanley Finance LLC (and I	Fixed Rate Step-Up Senior Notes Due 20 Registrant's guarantee with respect there		schange MS/26C
Market Vectors ETNs due March 31, 20	20 (two issuances)	NYSE Arca, In	nc. URR/DDR
Market Vectors ETNs due April 30, 202	0 (two issuances)	NYSE Arca, I	nc. CNY/INR
Morgan Stanley Cushing® MLP High Ir	come Index ETNs due March 21, 2031	NYSE Arca, I	nc. MLPY
Exchange Act of 1934 during the and (2) has been subject to such findicate by check mark whether the	preceding 12 months (or for such illing requirements for the past 90 the Registrant has submitted electr 232.405 of this chapter) during the	reports required to be filed by Secti h shorter period that the Registrant v days. Yes \omega No \omega ronically every Interactive Data File r he preceding 12 months (or for such	vas required to file such reports), required to be submitted pursuant
	th company. See the definitions	ed filer, an accelerated filer, a non-ac of "large accelerated filer," "accel Exchange Act. (Check one):	
Large Accelerated Filer 🗵 Accele	erated Filer Non-Accelerated I	Filer Smaller reporting company	☐ Emerging growth company ☐
		Registrant has elected not to use the provided pursuant to Section 13(a) of	
Indicate by check mark whether the	ne Registrant is a shell company (as defined in Rule 12b-2 of the Exch	ange Act). Yes \(\subseteq \text{No } \text{\infty}

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.

QUARTERLY REPORT ON FORM 10-Q For the quarter ended March 31, 2019

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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.

Management's 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-O.

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 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 liquidity and income, 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, "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.

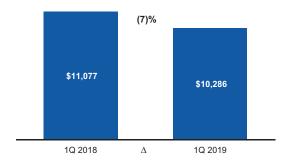
Executive Summary

Overview of Financial Results

Consolidated Results

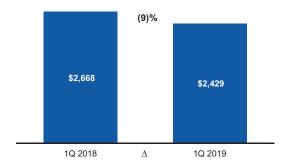
Net Revenues

(\$ in millions)



Net Income Applicable to Morgan Stanley

(\$ in millions)



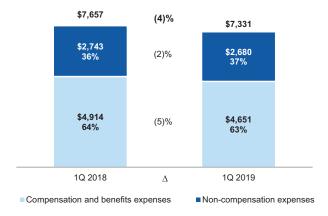
Earnings per Common Share¹



 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 Expenses¹

(\$ in millions)



- 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.

Investment Management

Management's Discussion and Analysis

Selected Financial Information and Other Statistical Data

	Three Months Ended March 31,				
2019			2018		
\$	2,429	\$	2,670		
	_		(2)		
	2,429		2,668		
	93		93		
\$	2,336	\$	2,575		
	71.3%		69.1%		
	13.1%		14.9%		
	14.9%		17.2%		
		\$ 2,429 \$ 2,429	March 31, 2019 \$ 2,429 \$		

in millions, except per share and employee data	At March 31, 2019	D	At ecember 31, 2018
GLR ³	\$ 233,148	\$	249,735
Loans ⁴	\$ 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 ²	\$ 63,434	\$	62,879
Book value per common share ⁵	\$ 42.83	\$	42.20
Tangible book value per common share ^{2, 5}	\$ 37.62	\$	36.99
Worldwide employees	60,469		60,348

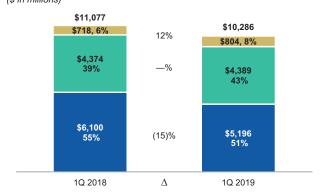
	At March 31, 2019	At December 31, 2018
Capital ratios ⁶		
Common Equity Tier 1 capital	16.7%	16.9%
Tier 1 capital	19.0%	19.2%
Total capital	21.6%	21.8%
Tier 1 leverage	8.4%	8.4%
SLR	6.5%	6.5%

- 1. The expense efficiency ratio represents total non-interest expense as a percentage of net revenues.
- Represents a non-GAAP measure. See "Selected Non-GAAP Financial Information" herein.
- 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).
- 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.
- 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

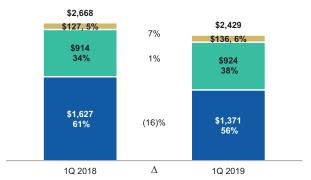
Institutional Securities

Net Revenues by Segment^{1, 2} (\$ in millions)



Net Income Applicable to Morgan Stanley by Segment^{1, 3} (\$ in millions)

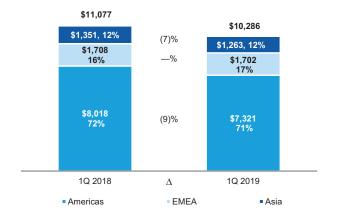
Wealth Management



- Institutional Securities Wealth Management Investment Management
- 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.
- 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.

Net Revenues by Region 1, 2

(\$ 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

	Three Months Ended March 31,					
\$ in millions, except per share data		2019	2018			
Net income applicable to Morgan Stanley	\$	2,429	\$	2,668		
Impact of adjustments		(101)		_		
Adjusted net income applicable to Morgan Stanley—non-GAAP¹	\$	2,328	\$	2,668		
Earnings per diluted common share	\$	1.39	\$	1.45		
Impact of adjustments		(0.06)		_		
Adjusted earnings per diluted common share—non-GAAP1	\$	1.33	\$	1.45		
Effective income tax rate		16.5%		20.9%		
Impact of adjustments		3.4%		—%		
Adjusted effective income tax rate—non-GAAP¹		19.9%		20.9%		
\$ in millions		At March 31, 2019	De	At ecember 31, 2018		
Tangible equity						
U.S. GAAP Morgan Stanley shareholders' equity	\$	80,724	\$	80,246		
Less: Goodwill and net intangible assets		(8,770)		(8,847)		
Tangible Morgan Stanley						

Consolidated Non-GAAP Financial Measures

Average Monthly Baland Three Months Ended March 31,					
nillions 2019					
\$	80,115	\$	77,507		
	(8,806)		(9,043)		
\$	71,309	\$	68,464		
\$	71,595	\$	68,987		
	(8,806)		(9,043)		
\$	62,789	\$	59,944		
	\$ \$	\$ 80,115 (8,806) \$ 71,309 \$ 71,595 (8,806)	March 31 2019 \$ 80,115 \$ (8,806) \$ 71,309 \$ \$ 71,595 \$ (8,806)		

	Three Months Ended March 31,				
\$ in billions	 2019		2018		
Average common equity					
Unadjusted	\$ 71.6	\$	69.0		
Adjusted ¹	71.5		69.0		
ROE ²					
Unadjusted	13.1%		14.9%		
Adjusted ^{1, 3}	12.5%		14.9%		
Average tangible common equity					
Unadjusted	\$ 62.8	\$	59.9		
Adjusted ¹	62.7		59.9		
ROTCE ²					
Unadjusted	14.9%		17.2%		
Adjusted ^{1, 3}	14.2%		17.2%		

Non-GAAP Financial Measures by Business Segment

		Ended		
\$ in billions		2019		2018
Pre-tax margin ⁴				
Institutional Securities		31%		35%
Wealth Management		27%		27%
Investment Management		22%		21%
Consolidated		29%		31%
Average common equity ⁵				
Institutional Securities	\$	40.4	\$	40.8
Wealth Management		18.2		16.8
Investment Management		2.5		2.6
Parent		10.5		8.8
Consolidated average common				
equity	\$	71.6	\$	69.0
Average tangible common equity ⁵				
Institutional Securities	\$	39.9	\$	40.1
Wealth Management		10.2		9.2
Investment Management		1.5		1.7
Parent		11.2		8.9
Consolidated average tangible				
common equity	\$	62.8	\$	59.9
ROE ^{2, 6}				
Institutional Securities		12.9%		15.2%
Wealth Management		19.8%		21.3%
Investment Management		21.9%		19.3%
Consolidated		13.1%		14.9%
ROTCE ^{2, 6}				
Institutional Securities		13.0%		15.5%
Wealth Management		35.6%		38.9%
Investment Management		35.3%		30.3%
Consolidated		14.9%		17.2%

- 1. 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.
- 4. Pre-tax margin represents income from continuing operations before income taxes as a percentage of net revenues.
- 5. 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.

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.

Institutional Securities

Income Statement Information

	٦	Three Mo Mar				
\$ in millions		2019 2018			% Change	
Revenues						
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)%	
Net revenues		5,196		6,100	(15)%	
Compensation and benefits		1,819		2,160	(16)%	
Non-compensation expenses		1,782		1,828	(3)%	
Total non-interest expenses		3,601		3,988	(10)%	
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	-%	
Net income applicable to Morgan Stanley	\$	1,371	\$	1,627	(16)%	

Investment Banking

Investment Banking Revenues

	Т	hree Mo Mar			
\$ in millions	2019		2018		% Change
Advisory	\$	406	\$	574	(29)%
Underwriting: Equity		339		421	(19)%
Fixed income		406		518	(22)%
Total Underwriting		745		939	(21)%
Total Investment banking	\$	1,151	\$	1,513	(24)%

Investment Banking Volumes

	Three Months Ended March 31,					
\$ in billions	2	019		2018		
Completed mergers and acquisitions ¹	\$	187	\$	170		
Equity and equity-related offerings ^{2, 3}		14		22		
Fixed income offerings ^{2, 4}		54		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.
- Based on full credit for single book managers and equal credit for joint book managers.
- Includes Rule 144A issuances and registered public offerings of common stock and convertible securities and rights offerings.
- 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.

Sales and Trading Net Revenues

By Income Statement Line Item

		Three Mo Mar			
\$ in millions	2019			2018	% Change
Trading	\$	3,130	\$	3,643	(14)%
Commissions and fees		621		744	(17)%
Asset management		107		110	(3)%
Net interest		(116)		(95)	(22)%
Total	\$	3,742	\$	4,402	(15)%

By Business

\$ in millions		2019	2018	% Change
Equity	\$	2,015	\$ 2,558	(21)%
Fixed income		1,710	1,873	(9)%
Other		17	(29)	159%
Total	\$	3,742	\$ 4,402	(15)%

Sales and Trading Revenues—Equity and Fixed Income

	Three Months Ended March 31, 2019								
\$ in millions	Trading		F	ees¹	Int	Net erest ²	Total		
Financing	\$	1,115	\$	98	\$	(258)	\$	955	
Execution services		551		553		(44)		1,060	
Total Equity	\$	1,666	\$	651	\$	(302)	\$	2,015	
Total Fixed income	\$	1,727	\$	78	\$	(95)	\$	1,710	

	Three Months Ended March 31, 2018								
\$ in millions	Т	rading	F	ees¹	Total				
Financing	\$	1,234	\$	107	\$	(146)	\$	1,195	
Execution services		791		664		(92)		1,363	
Total Equity	\$	2,025	\$	771	\$	(238)	\$	2,558	
Total Fixed income	\$	1,715	\$	83	\$	75	\$	1,873	

- 1. Includes Commissions and fees and Asset management revenues.
- 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.
- 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.

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.

Wealth Management

Income Statement Information

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

Financial Information and Statistical Data

\$ in billions, except employee data		At arch 31, 2019	At December 31, 2018		
Client assets	\$	2,476	\$	2,303	
Fee-based client assets ¹	\$	1,116	\$	1,046	
Fee-based client assets as a percentage of total client assets		45%		45%	
Client liabilities ²	\$	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) ³	\$ 1,118	\$	1,115			
Client assets (\$ in millions)4	\$ 158	\$	151			
Fee-based asset flows (\$ in billions) ⁵	\$ 14.8	\$	18.2			

- Fee-based client assets represent the amount of assets in client accounts where the fee for services is calculated based on those assets.
- 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.
- 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

	Т	hree Mon Marcl			
\$ in millions		2019	2018	% Change	
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.

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

\$ in billions	Dec	At cember 31, 2018	In	flows	Oı	utflows	arket ipact	M	At arch 31, 2019
Separately managed ¹	\$	279	\$	14	\$	(5)	\$ (12)	\$	276
Unified managed ²		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
Total fee-based client assets	\$	1,046	\$	58	\$	(44)	\$ 56	\$	1,116

\$ in billions	De	At cember 31, 2017	In	flows	0	utflows	arket npact	M	At arch 31, 2018
Separately managed ¹	\$	252	\$	10	\$	(6)	\$ 4	\$	260
Unified managed ²		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
Total fee-based client assets	\$	1,045	\$	58	\$	(39)	\$ (6)	\$	1,058

Average Fee Rates³

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

- Includes non-custody account values reflecting prior quarter-end balances due to a lag in the reporting of asset values by third-party custodians.
- Includes Mutual fund advisory accounts. Prior periods have been recast to conform to the current presentation.
- 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.

Investment Management

Income Statement Information

	Th	ree Mo Mar			
\$ in millions		2019	2018		% Change
Revenues					
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
Net revenues		804		718	12%
Compensation and benefits		370		304	22%
Non-compensation expenses		260		266	(2)%
Total non-interest expenses		630		570	11%
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%
Net income applicable to Morgan Stanley	\$	136	\$	127	7%

Net Revenues

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

\$ in billions	At Decemb 201		In	flows	Οι	utflows	Market Impact		ner	At arch 31, 2019
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
Total AUM	\$	463	\$	363	\$	(367)	\$ 23	\$	(2)	\$ 480
Shares of minority stake assets		7								6
\$ in billions	At December 2017		Inf	lows	Ou		Market Impact	Oth	er¹	At arch 31, 2018
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
Total AUM	\$	482	\$	345	\$	(363)	\$ —	\$	5	\$ 469
Shares of minority stake assets		7								7

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

Average AUM

		nths Ended ch 31,		
\$ in billions		2019		
Equity	\$	113	\$	109
Fixed income		68		73
Alternative/Other		131		129
Long-term AUM subtotal		312		311
Liquidity		163		163
Total AUM	\$	475	\$	474
Shares of minority stake assets		6		7

Average Fee Rates

		Three Months Ended March 31,		
Fee rate in bps	2019	2018		
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.

Supplemental Financial Information and Disclosures

Income Tax Matters

Effective Tax Rate from Continuing Operations

	Three Months Ended March 31,			
\$ in millions		2019		2018
U.S. GAAP		16.5%		20.9%
Adjusted effective income tax rate—non-GAAP1		19.9%		20.9%
Net discrete tax provisions/(benefits) Recurring ²	\$	(107)	\$	(147)
Intermittent ³	\$	(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.
- 2. 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 Information¹

\$ in billions	M	At arch 31, 2019	De	At ecember 31, 2018
Assets	\$	210.3	\$	216.9
Investment securities portfolio: Investment securities—AFS		44.5		45.5
Investment securities—HTM		27.8		23.7
Total investment securities	\$	72.3	\$	69.2
Deposits ²	\$	179.1	\$	187.1
Wealth Management Loans				
Securities-based lending and other ³	\$	43.5	\$	44.7
Residential real estate		28.0		27.5
Total	\$	71.5	\$	72.2
Institutional Securities Loans ⁴ Corporate ⁵ : 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
Total	\$	44.1	\$	41.4

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

The update also eliminates the concept of other-thantemporary 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

	At March 31, 2019							
\$ in millions	IS	WM	IM	Total				
Assets								
Cash and cash equivalents ¹	\$ 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 ²	44,742	71,450	5	116,197				
Other assets ³	13,390	12,696	2,109	28,195				
Total assets	\$ 675,770	\$ 194,897	\$ 5,297	\$ 875,964				

	At December 31, 2018					
\$ in millions	IS	WM	IM	Total		
Assets						
Cash and cash equivalents ¹	\$ 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 ²	43,380	72,194	5	115,579		
Other assets ³	13,734	9,125	1,633	24,492		
Total assets	\$ 646,427	\$ 202,392	\$ 4,712	\$ 853,531		

IS—Institutional Securities

WM—Wealth Management

IM—Investment Management

- Cash and cash equivalents includes Cash and due from banks, Interest bearing deposits with banks and Restricted cash.
- 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).
- 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

At March 31, 2019	At December 31, 2018
\$ 11,457	\$ 10,441
34,170	36,109
105,425	119,138
42,228	41,473
36,341	39,869
3,527	2,705
\$ 233,148	\$ 249,735
	March 31, 2019 \$ 11,457 34,170 105,425 42,228 36,341 3,527

- Included in Cash and due from banks and Interest bearing deposits with banks in the balance sheets.
- Primarily composed of unencumbered Japanese, U.K., Brazilian and French government obligations.

GLR Managed by Bank and Non-Bank Legal Entities

\$ in millions	M	At arch 31, 2019	De	At December 31, 2018		verage Daily Balance hree Months Ended March 31, 2019
Bank legal entities						_
Domestic	\$	80,296	\$	88,809	\$	80,670
Foreign		5,492		4,896		4,672
Total Bank legal entities		85,788		93,705		85,342
Non-Bank legal entities 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
Total	\$	233,148	\$	249,735	\$	242,425

Regulatory Liquidity Framework

Liquidity Coverage Ratio

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.

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

	Average Three M		
\$ in millions	March 31, 2019		cember 31, 2018
HQLA			
Cash deposits with central banks	\$ 37,070	\$	44,225
Securities ¹	155,713		150,792
Total	\$ 192,783	\$	195,017
LCR	150%		145%

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 Commit-tee") 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 Re-sources—Funding Management—Secured Financing" in the 2018 Form 10-K.

Collateralized Financing Transactions

\$ in millions	M	At arch 31, 2019	De	At cember 31, 2018
Securities purchased under agreements to resell and Securities borrowed	\$	235,461	\$	214,835
Securities sold under agreements to repurchase and Securities loaned	\$	60,456	\$	61,667
Securities received as collateral ¹	\$	5,426	\$	7,668

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

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

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.

Deposits

\$ in millions	r	At //arch 31, 2019	Ded	At cember 31, 2018
Savings and demand deposits: Brokerage sweep deposits ¹	\$	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
Total	\$	179,731	\$	187,820

^{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, 2019¹

\$ in millions	Parent Company Subsidiaries				Subsidiaries		Total
Original maturities of one year or less	\$	_	\$	1,498	\$	1,498	
Original maturities greater t 2019	han (one year 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 mor	nths2					26,068	

Original maturity in the table is generally based on contractual final maturity. For borrowings with put options, remaining maturity represents the earliest put date.

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.	R-1 (middle)	A (high)	Stable				
Fitch Ratings, Inc.	F1	Α	Stable				
Moody's Investors Service, Inc.	P-2	A3	Stable				
Rating and Investment Information, Inc.	a-1	A-	Positive				
S&P Global Ratings	A-2	BBB+	Stable				

 $^{2. \ \ \}text{Includes only borrowings with original maturities greater than one year.}$

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

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

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

	Inre	i March 31,		
in millions, except for per share data		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."

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.

Regulatory Capital Ratios

	At March 31, 2019					
\$ in millions	Required Ratio ¹	l Standardized		d Advanc		
Risk-based capital						
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%	
Leverage-based capital						
Adjusted average assets ²		\$	855,192		N/A	
Tier 1 leverage ratio	4.0%		8.4%		N/A	
Supplementary leverage exposure ³			N/A	\$1	,104,264	
SLR	5.0%		N/A		6.5%	

	At December 31, 2018						
\$ in millions	Required Ratio ¹					Ad	dvanced
Risk-based capital					-		
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%		
Leverage-based capital							
Adjusted average assets ²		\$	843,074		N/A		
Tier 1 leverage ratio	4.0%		8.4%		N/A		
Supplementary leverage exposure ³			N/A	\$1	,092,672		
SLR	5.0%		N/A		6.5%		

- 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

\$ in millions	M	At arch 31, 2019	De	At ecember 31 2018	, CI	nange
Common Equity Tier 1 capital						
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 ¹		(121)		(821)		700
Total Common Equity Tier 1 capital	\$	63,344	\$	62,086	\$	1,258
Additional Tier 1 capital						
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
Total Tier 1 capital	\$	71,910	\$	70,619	\$	1,291
Standardized Tier 2 capital						
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
Total Standardized Tier 2 capital	\$	9,660	\$	9,433	\$	227
Total Standardized capital	\$	81,570	\$	80,052	\$	1,518
Advanced Tier 2 capital						
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
Total Advanced Tier 2 capital	\$	9,374	\$	9,195	\$	179
Total Advanced capital	\$	81,284	\$	79,814	\$	1,470

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.

RWA Rollforward

	At March 31, 2019 ¹						
\$ in millions	Sta	ndardized	Advanced				
Credit risk RWA							
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				
Securitizations		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 ²		4,105	4,263				
Total change in credit risk RWA	\$	18,156 \$	18,557				
Balance at March 31, 2019	\$	323,687 \$	209,152				
Market risk RWA							
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-securitizations		1,141	1,141				
Securitizations		242	242				
Total change in market risk RWA	\$	(7,045)\$	(7,086				
Balance at March 31, 2019	\$	54,733 \$	54,771				
Operational risk RWA							
Balance at December 31, 2018		N/A \$	110,602				
Change in operational risk RWA		N/A	(8,172				
Balance at March 31, 2019		N/A \$	102,430				
Total RWA	\$	378,420 \$	366,353				

Regulatory VaR—VaR for regulatory capital requirements

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

	At March	າ 31, 2	019	
\$ in millions	Required Ratio ¹	Actual Amount/Ratio		
Total Loss-Absorbing Capacity				
External TLAC ²		\$	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 ³		\$	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.
- 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

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"

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 Attribution¹

	Three Months Ended March 31,							
\$ in billions	2	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				
Total	\$	71.6	\$	69.0				

 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

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.

Thurs Months Fuded

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

	March 31, 2019										
\$ in millions		eriod End	Ave	erage	Н	igh²	L	ow ²			
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 ¹		(32)		(32)		N/A		N/A			
Primary Risk Categories	\$	39	\$	40	\$	48	\$	36			
Credit Portfolio		17		16		18		14			
Less: Diversification benefit ¹		(12)		(10)		N/A		N/A			
Total Management VaR	\$	44	\$	46	\$	55	\$	42			

Three Months Ende December 31, 201								
\$ in millions		riod Ind	Ave	erage	Н	igh²	L	ow²
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 ¹		(27)		(30)		N/A		N/A
Primary Risk Categories	\$	51	\$	44	\$	62	\$	34
Credit Portfolio		15		13		16		11
Less: Diversification benefit ¹		(9)		(8)		N/A		N/A
Total Management VaR	\$	57	\$	49	\$	67	\$	39

- 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.
- 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.

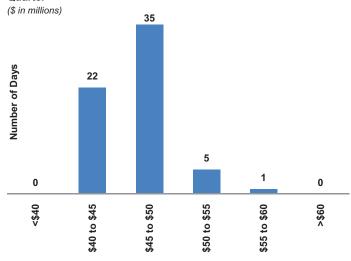
Distribution of VaR Statistics and Net Revenues

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.

Risk Disclosures Morgan Stanley

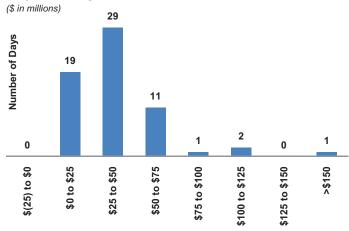
We evaluate the reasonableness of our VaR model by comparing the potential declines in portfolio values generated by the model with corresponding actual trading results for the Firm, as well as individual business units. For days where losses exceed the VaR statistic, we examine the drivers of trading 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 Quarter¹



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

Daily Net Trading Revenues for the Current Quarter



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 Sensitivity¹

\$ in millions	М	At arch 31, 2019	At December 2018	31,
Derivatives	\$	6	\$	6
Funding liabilities ²		37		34

- 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

\$ in millions	At rch 31, 2019	De	At cember 31, 2018
Basis point change			
+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.

Risk Disclosures

Investments Sensitivity, Including Related Carried Interest

	L	Loss from 10% Dec						
\$ in millions		At March 31, 2019		At ember 31, 2018				
Investments related to Investment Management activities	\$	334	\$	298				
Other investments: MUMSS		164		165				
Other Firm investments		187		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

	,	At March 3	1, 2019	
\$ in millions	IS	WM	IM¹	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
Loans held for investment, gross of allowance	30,047	71,473	5	101,525
Allowance for loan losses	(215)	(44)	_	(259
Loans held for investment, net of allowance	29,832	71,429	5	101,266
Corporate	12,469	_	_	12,469
Residential real estate	1	21	_	22
Commercial real estate	2,440	_	_	2,440
Loans held for sale	14,910	21	_	14,931
Corporate	8,286	_	21	8,307
Residential real estate	1,282	_	_	1,282
Commercial real estate	1,766	_	_	1,766
Loans held at fair value	11,334	_	21	11,355
Total loans	56,076	71,450	26	127,552
Lending commitments ²	102,174	12,147	_	114,321
Total loans and lending commitments ²	\$ 158,250 \$	83,597 \$	26 \$	241,873

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

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.

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

Risk Disclosures Morgan Stanley

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 the aggregate allowance determining 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

	Mar	At December 31,			
\$ in millions		019	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 3	1, 2019	At December	31, 2018	
	IS	WM	IS	WM	
Current	99.1 %	99.9 %	99.8 %	99.9 %	
Nonaccrual ¹	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 Commitments¹

		At March 31, 2019									
		Years to Maturity									
\$ in millions	Le	ss than 1		1-3		3-5		Over 5		Total	
Loans											
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 ²		87		26		234		1,714		2,061	
Total loans		10,235		21,836		15,961		8,044		56,076	
Lending commitm	nent	S									
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 ²		8		_		134		11		153	
Total lending commitments		17,230		29,716		49,665		5,563		102,174	
Total exposure	\$	27,465	\$	51,552	\$	65,626	\$	13,607	\$	158,250	

		At December 31, 2018									
				Years to	Ma	aturity					
\$ in millions	Les	ss than 1		1-3		3-5		Over 5		Total	
Loans											
AA	\$	7	\$	430	\$		\$	19	\$	456	
Α		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 ²		88		95		160		1,762		2,105	
Total loans		11,586		19,684		14,582		8,432		54,284	
Lending commitm	ents	5									
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 ²		8		_		38		_		46	
Total lending commitments		10,155		29,687		48,332		6,891		95,065	
Total exposure	\$	21,741	\$	49,371	\$	62,914	\$	15,323	\$	149,349	

NIG-Non-investment grade

- 1. Obligor credit ratings are internally determined by CRM.
- 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.

Institutional Securities Loans and Lending Commitments by Industry

\$ in millions		At March 31, 2019	At December 31, 2018		
Industry Financials	\$	24.452	\$	20.655	
	ð	34,152	Ф	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	
Total	\$	158,250	\$	149,349	

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 Loans¹

\$ in millions	Ma	At arch 31, 2019	De	At cember 31, 2018
Corporate relationship and event-driven lending ²	\$	13,248	\$	13,317
Secured lending facilities ³		22,388		21,408
Securities-based lending and other ⁴		7,402		8,331
Total Corporate	\$	43,038	\$	43,056

- 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.
- Secured lending facilities includes loans provided to clients to warehouse loans secured by underlying real estate and other assets.
- 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

	At March 31, 2019									
		Years to Maturity								
\$ in millions	Les	s than 1		1-3		3-5	C	over 5	_	Γotal
Loans	\$	2,010	\$	307	\$	476	\$	1,784	\$	4,577
Lending commitments		7,594		2,816		3,192		2,436		16,038
Total loans and lending commitments	\$	9,604	\$	3,123	\$	3,668	\$	4,220	\$	20,615
	At December 31, 2018									
			Ye	ears to I	Иat	urity				
\$ in millions	Les	s than 1		1-3		3-5	C	Over 5		Total
Loans	\$	2,582	\$	287	\$	656	\$	1,618	\$	5,143
Lending commitments		1,506		2,456		2,877		3,658		10,497
Total loans and lending commitments	\$	4,088	\$	2,743	\$	3,533	\$	5,276	\$	15,640

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									
		Con	trac	ctual Ye	ars	to Matu	ırity	,		
\$ in millions	Le	ss than 1		1-3		3-5		Over 5		Total
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
Total loans and lending commitments	\$	46,328	\$	5,000	\$	2,845	\$	29,424	\$	83,597
Securities-based lending—	LAL	platform le	oan	ıs					\$	32,731

		At December 31, 2018								
		Con	trac	ctual Ye	ars	to Matu	rity			
\$ in millions	Les	ss than 1		1-3		3-5		Over 5		Total
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
Total loans and lending commitments	\$	47,341	\$	4,754	\$	2,047	\$	28,715	\$	82,857
Securities-based lending—LAL platform loans \$ 33,247									33,247	

Risk Disclosures Morgan Stanley

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

	At N	/larch 31, 2	2019
\$ in millions	IS	WM	Total
Customer receivables representing margin loans	\$ 16,800	\$ 10,627	\$ 27,427
	At De	cember 31	, 2018
\$ in millions	IS	WM	Total
Customer receivables representing margin loans	\$ 14,842	\$ 11,383	\$ 26,225

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

\$ in millions	М	At arch 31, 2019	De	At cember 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. 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

			Counter	pa	arty Credi	it Rat	ing¹				
\$ in millions	_	AAA	AA		Α	BE	3B		NIG		Total
At March 31, 2	019)									
<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

	Counterparty Credit Rating ¹											
\$ in millions	AAA AA			Α		BBB		NIG		Total		
At December 3	1, 20)18										
<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

\$ in millions		At March 31, 2019	At December 31, 2018			
Industry Utilities	\$	4.472	\$	4,324		
	a a		φ	· · · · · · · · · · · · · · · · · · ·		
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		
Sovereign governments		367		385		
Energy		350		199		
Consumer discretionary		311		188		
Real estate		285		283		
Materials		275		275		
Insurance		181		235		
Consumer staples		161		216		
Other		148		116		
Total	\$	15,383	\$	15,253		

^{1.} Obligor credit ratings are determined internally by CRM.

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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

\$ in millions	
Net inventory ¹	

United Kingdom

ψ III TIIIIIIOTIO	00	voroigilio	1401	1 00 voi oigiio	i otai
Net inventory ¹	\$	(719)	\$	317	\$ (402)
Net counterparty exposure ²		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 ³		(312)		(1,381)	(1,693)
Net exposure	\$	(1,030)	\$	15,912	\$14,882

Sovereigns Non-sovereigns

2	nn	n
а	υa	

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

Germany

\$ in millions	Sov	ereigns	Non-	-sovereigns	Total
Net inventory ¹	\$	328	\$	160	\$ 488
Net counterparty exposure ²		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 ³		(268)		(1,051)	(1,319)
Net exposure	\$	230	\$	5,308	\$ 5,538

Brazil

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

Spain

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

Australia

\$ ITI TIIIIIOTIS	30	vereigns	Non-sovereigns		TOtal	
Net inventory ¹	\$	1,932	\$	495	\$	2,427
Net counterparty exposure ²		4		451		455
Loans		_		95		95
Lending commitments		_		796		796
Exposure before hedges		1,936		1,837		3,773
Hedges ³		_		(104)		(104)
Net exposure	\$	1,936	\$	1,733	\$	3,669

China ¢ in millions

Total

ψ III IIIIIIIOII3	001	Cicignia	3 Ivon sovereigns		Total	
Net inventory ¹	\$	200	\$	869	\$	1,069
Net counterparty exposure ²		113		180		293
Loans		_		1,242		1,242
Lending commitments		_		1,150		1,150
Exposure before hedges		313		3,441		3,754
Hedges ³		(112)		(40)		(152)
Net exposure	\$	201	\$	3,401	\$	3,602

Sovereigne

Non-sovereigns

Risk Disclosures Morgan Stanley

Canada

\$ in millions	Sov	vereigns	Non-so	vereigns	Total
Net inventory ¹	\$	(367)	\$	111	\$ (256)
Net counterparty exposure ²		41		1,811	1,852
Loans		_		91	91
Lending commitments		_		1,800	1,800
Exposure before hedges		(326)		3,813	3,487
Hedges ³		_		(171)	(171)
Net exposure	\$	(326)	\$	3,642	\$ 3,316
Netherlands					
\$ in millions	Sov	vereigns	Non-so	vereigns	Total
Net inventory ¹	\$	(204)	\$	156	\$ (48)
Net counterparty exposure ²		_		709	709
Loans		_		1,427	1,427
Lending commitments		_		1,385	1,385
Exposure before hedges		(204)		3,677	3,473
Hedges ³		(32)		(229)	(261)
Net exposure	\$	(236)	\$	3,448	\$ 3,212
India					
\$ in millions	Sov	/ereigns	Non-so	vereigns	Total
Net inventory ¹	\$	1,500	\$	633	\$ 2,133
Net counterparty exposure ²		_		599	599
Lending commitments		_		95	95
Exposure before hedges		1,500		1,327	2,827
Net exposure	\$	1,500	\$	1,327	\$ 2,827

- 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).
- 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

\$ in millions	M	At larch 31, 2019
Gross purchased protection	\$	(61,098)
Gross written protection		57,463
Net exposure	\$	(3,635)

Benefit of Collateral Received against Net Counterparty Exposure

\$ in millions	March 31, 2019			
Counterparty credit exposure	Collateral ¹			
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.

Morgan Stanley

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 anticorruption 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.

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.

/s/ Deloitte & Touche LLP New York, New York May 3, 2019

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.

Consolidated Income Statements (Unaudited)

	Three Months End March 31,			nded
in millions, except per share data		2019		2018
Revenues				
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
Net revenues		10,286		11,077
Non-interest expenses				
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
Total non-interest expenses		7,331		7,657
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
Earnings applicable to Morgan Stanley common shareholders	\$	2,336	\$	2,575
Earnings per common share				
Basic	\$	1.41	\$	1.48
Diluted	\$	1.39	\$	1.45
Average common shares outstanding Basic		1,658		1.740
Diluted		1,677		1,740
Dilitied		1,0//		1,//1

Consolidated Comprehensive Income Statements (Unaudited)

	Thre	ee Months March 3	
\$ in millions	2019	9	2018
Net income	\$ 2	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
Comprehensive income applicable to Morgan Stanley	\$	2,248 \$	2,759

Consolidated Balance Sheets

	(Unaudited) At March 31, 2019		De	At 24
\$ in millions, except share data			Dec	cember 31, 2018
Assets				
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
Total assets	\$	875,964	\$	853,531
Liabilities	•	470 704	Φ.	407.000
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
Total liabilities		794,072		772,125
Commitments and contingent liabilities (see Note 11) Equity Morgan Stanley shareholders' equity: Preferred stock Common stock, \$0.01 par value:		8,520		8,520
Shares authorized: 3,500,000,000 ; Shares issued: 2,038,893,979 ; Shares outstanding: 1,685,996,391 and 1,699,828,943		20		20
Additional paid-in capital		23,178		23,794
Retained earnings		66,061		64,175
Employee stock trusts		3,000		2,836
Accumulated other comprehensive income (loss)		(2,473)		(2,292)
Common stock held in treasury at cost, \$0.01 par value (352,897,588 and 339,065,036 shares)		(14,582)		(13,971)
Common stock issued to employee stock trusts		(3,000)		(2,836)
Total Morgan Stanley shareholders' equity		80,724		80,246
Noncontrolling interests		1,168		1,160
Total aguity		04.000		01 106
Total equity		81,892		81,406

Consolidated Statements of Changes in Total Equity (Unaudited)

\$ in millions	Preferred Stock	mmon Stock	Additional Paid-in Capital	etained arnings	Employ Stock Trusts	(Accumulated Other Comprehensive Income (Loss)	٦	Common Stock Held in Freasury 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	\$ 2,830	6	\$ (2,292)	\$	(13,971)	\$ (2,836)	\$ 1,160	\$ 81,406
Cumulative adjustments for accounting changes ¹	_	_	_	63	_	_	_		_	_	_	63
Net income applicable to Morgan Stanley	_	_	_	2,429	_	-	_		_	_	_	2,429
Net income applicable to noncontrolling interests	_	_	_	_	_	_	_		_	_	39	39
Preferred stock dividends ²	_	_	_	(93)	_	-	_		_	_	_	(93)
Common stock dividends (\$0.30 per share)	_	_	_	(513)	_	-	_		_	_	_	(513)
Shares issued under employee plans	_	_	(618)	_	164	4	_		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
Balance at March 31, 2019	\$ 8,520	\$ 20	\$ 23,178	\$ 66,061	\$ 3,000	0	\$ (2,473)	\$	(14,582)	\$ (3,000)	\$ 1,168	\$ 81,892
Balance at December 31, 2017	\$ 8,520	\$ 20	\$ 23,545	\$ 57,577	\$ 2,90	7	\$ (3,060)	\$	(9,211)	\$ (2,907)	\$ 1,075	\$ 78,466
Cumulative adjustments for accounting changes ¹	_	_	_	306	_	_	(437)		_	_	_	(131)
Net income applicable to Morgan Stanley	_	_	_	2,668	_	-	_		_	_	_	2,668
Net income applicable to noncontrolling interests	_	_	_	_	_	_	_		_	_	36	36
Preferred stock dividends ²	_	_	_	(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	\$ 2,90	7	\$ (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.

Consolidated Cash Flow Statements (Unaudited)

Cash flows from operating activities 5,2488 \$2,000 Adjustments for reconcile net income to net cash provided by (used for) operating activities 283 323 Despitation and amortization 6688 309 Provision for credit losses on lending activities 369 269 Other operating adjustments (92) 33,832 Changes in assets and lishilities 23,977 33,832 Securities borrowed (22,578) 33,832 Securities borrowed 1,567 4,018 Securities borrowed 1,567 4,018 Securities borrowed 1,567 1,018 Customer and other receivables and other lishibities 9,761 1,182 Securities purchased under agreements to repurchase 1,192 1,182 Securities purchased under agreements to repurchase 1,192 1,102 Securities purchased under agreements to repurchase 1,102 1,102 Potrace for (payments for)* 5,29 1,002 1,002 Cash flower from (payments for)* 5,29 1,002 1,002 Charge in (payments for)* 2,25 </th <th></th> <th>Mar</th> <th>onths Ended rch 31,</th> <th></th>		Mar	onths Ended rch 31,	
Net income \$ 2,468 \$ 2,70 Alguisments to reconcie net income to net cash provided by (used for) operating activities: 283 332 Stock-based compensation expense 656 390 Depreciation and amortization 36 26 Other operating adjustments (92) 373 Changes in assets and liabilities: 29,77 3,832 Trading assets, net of 1 rading liabilities 22,978 (11,825) Securities bornowed (22,578) (11,825) Securities bornowed 1,60 (30) Customer and other receivables and other isasets 1,60 (1,811) Customer and other payables and other liabilities 9,971 (1,122) Securities protribused under agreements to requirchase 1,181 (1,849) Cash flows from investing activities 1,181 (1,652) (1,610) Chitrage i	\$ in millions	2019	2018	3
Stock-based compensation expense 293 321 Depreciation and amortization 368 280 Provision for credit losses on lending activities 36 28 Changes in assetis and liabilities: 23,977 33,832 Securities borrowed 600 30 Securities controved 600 30 Securities controved 600 30 Scurities provides and other assets 1,567 (10,10) Customer and other receivables and other isbilities 9,971 1,122 Securities purchased under agreements to result 1,952 1,412 Securities purchased under agreements to result assets 1,181 2,489 Securities purchased under agreements to result assets 1,181 2,489 Securities purchased under agreements to result assets 1,181 2,489 Securities purchased under agreements to result assets 1,181 2,489 Securities purchased under agreements to result assets 1,182 2,610 Cobbines from investing activities 1,589 6,480 Proceeds from losans, net 1,589 1,582	Net income	\$ 2,468	\$ 2,70	04
Provision for redfil loses on lending activities		293	32	21
Other operating adjustments (9c) (37) Changes in assets and liabilities: 23,977 33,832 Securities borrowed (22,578) (11,000) Securities borrowed (20,500) (30) Customer and other receivables and other assets 1,567 (10,100) Customer and other preceivables and other lashilities 9,971 (1,100) Securities purchased under agreements to reputable 1,952 4,012 Proceeds from investing activities 1,502 (1,610) Changes in long, net (529) (1,500) (3,00) Changes in long, net (1,500) (5,482) (5,542) Purchases (1,589) (1,582) (5,482) Purchases from paydown and maturities 2,663 (2,162) Proceeds from paydown and maturities (1,500) (1,500) (2,100) Net procee	Depreciation and amortization	658	39	90
Changes in assets and labilities: 23,977 33,83 Trading assets, net of Trading liabilities (22,578) (11,826) Securities borrowed (20,578) (11,826) Customer and other proxyables and other liabilities 9,971 1,126 Customer and other payables and other liabilities 9,971 1,128 Securities proxhased under agreements to repurchase (1,811) 4,826 Securities proxhased under agreements to repurchase (1,811) 4,826 Set of the proximate agreements to repurchase (1,811) 4,826 Cash flower from investing activities (1,822) (3,801) Ches acts proximate sequipment and software, net (1,322) (3,802) Ches acts proximate sequipment and software, net (1,522) (3,802) Ches acts proximate sequipment and software, net (1,522) (3,802) Proceeds from payments for; (1,528) (3,802) Other search proximate activities (1,528) (3,602) Proceeds from payments for; (1,527) (2,614) Other securities payments for; (1,527) (2,614) Other	Provision for credit losses on lending activities	36	2	26
Trading assets, net of Trading liabilities 23,977 33,332 Securities foornewed (25,78) (11,825) Securities promoved (36) (36) Customer and other receivables and other liabilities 9,971 (13,109) Coustomer and other prevables and other liabilities 9,971 (1,129) Securities purchased under agreements to resell 1,952 4,012 Securities provided by fused for) operating activities 17,041 12,648 Net cash provided by fused for) operating activities 1,052 (410) Proceeds from investing activities (529) (410) Changes in loans, net (1,329) (3,801) Investment securities: (1,529) (5,882) (5,882) Proceeds from payowns and maturities 2,663 2,125 (1,629) Proceeds from payowns and maturities (1,62) (1,62) (1,629) Proceeds from payowns and maturities (1,62) (1,62) (1,62) Other investing activities (1,62) (1,62) (1,62) Net proceeds from finacting activities (1,52) (Other operating adjustments	(92)	(3	37)
Securities loaned 600 (36) Customer and other receivables and other assetts 1,567 (1,019) Customer and other payables and other liabilities 9,971 1,129 Securities purchased under agreements to resell 1,811 (4,849) Securities purchased under agreements to reprovable 1,811 (4,849) Net cash provided by (used for) operating activities 17,041 12,648 Cash flows from investing activities (1,329) (3,801) Proceeds from incysting activities (1,329) (3,801) Changes in loans, net (1,329) (3,801) Investment securities (1,329) (3,801) Purchases 7,875 810 Proceeds from sales 7,875 810 Proceeds from paydowns and maturities 1,663 (2,125) Other investing activities 1,157 (5,222) Net proceeds from financing activities 1,157	Changes in assets and liabilities: Trading assets, net of Trading liabilities	23,977	33,83	32
Customer and other receivables and other lassets 1,567 (13,019) Customer and other payables and other labilities 9,971 1,129 Securities purchased under agreements to resell 1,952 4,012 Securities sold under agreements to repurchase (1,811) (4,849) Net cash provided by (used for) operating activities Cash flows from investing activities Proceeds from (payments for): (529) (410) Changes in loans, net (1,329) (3,801) Investment securifies: (15,895) (5,482) Proceeds from paydowns and maturities 2,663 2,125 Proceeds from paydowns and maturities 2,663 2,125 Other investing activities (1,29) (6,802) Net cash provided by (used for) investing activities (1,25) (6,102) Net proceeds from paydowns and maturities (1,25) (1,202) Other investing activities (1,25) (1,25) Net cash provided by (used for) investing activities (1,55) (1,510) Net proceeds from (payments for): (1,55) (1,510) Obeposits <t< td=""><td>Securities borrowed</td><td>(22,578)</td><td>(11,82</td><td>25)</td></t<>	Securities borrowed	(22,578)	(11,82	25)
Customer and other payables and other liabilities 9,971 1,129 Securities purchased under agreements to revealed 1,852 4,012 Securities obli under agreements to represents (1,811) (4,849) Net cash provided by (used for) operating activities 17,041 12,648 Cash flows from investing activities "Company 10 (a)	Securities loaned	600	(3	36)
Securities purchased under agreements to result Securities sold under agreements to repurchase 1,952 4,012 Securities sold under agreements to repurchases (1,611) (4,849) Net cash provided by (used for) operating activities (1,041) (2,648) Cosh flows from investing activities (529) (410) Changes in loans, net (1,329) (3,801) Investment securities: (15,895) (5,482) Proceeds from securities: (1,575) 810 Proceeds from paydowns and maturities 2,663 2,175 810 Proceeds from paydowns and maturities (1,52) (6,52) (6,52) (6,52) (6,52) (6,63) 2,152 (6,63) 2,152 (6,63) 2,152 (6,63) 2,152 (6,63) 2,152 (6,63) 2,152 (6,63) 2,252 (6,63) 2,252 (6,63) 2,252 (6,63) 2,252 (6,63) 2,252 (6,63) 2,251 (6,63) 2,261 (6,63) 2,261 (6,61) (6,61) (6,61) (6,61) (6,61) (6,61) (6,61) <td>Customer and other receivables and other assets</td> <td>1,567</td> <td>(13,0</td> <td>19)</td>	Customer and other receivables and other assets	1,567	(13,0	19)
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Net cash provided by (used for) operating activities 17,041 12,688 Cash flows from investing activities Proceeds from (payments for): (529 (410) Cher assets—Premises, equipment and software, net (529 (410) Changes in loans, net (1,589) (5,880) Investment securities: 17,875 810 Purchases (15,895) (5,482) Proceeds from paydowns and maturities 2,663 2,125 Other investing activities (12,920) (6,920) Other investing activities (1,272) (6,922) Cash flows from financing activities (1,575) (2,101) Net proceeds from (payments for): (1,575) (2,101) Other secured financings (8,089) 98 Proceeds from (payments for): (1,575) (2,101) Other secured financings (8,089) 98 Proceeds from (payments for): (1,575) (2,101) Other secured financings (8,099) (8,099) (8,099) Proceeds from: (8,099) (8,099) (8,099) (8,0	Securities sold under agreements to repurchase	(1,811)	(4,84	49)
Proceeds from (payments for): (529) (300) Changes in loans, net (1,329) (3,801) Investment securities: 15,895 (5,826) Purchases 7,875 810 Proceeds from paydowns and maturities 2,663 2,125 Other investing activities (7,227) (5,622) Other investing activities (7,227) (5,022) Cash flows from financing activities (7,277) (2,101) Net provided by (used for) investing activities (1,575) (2,101) Obeyosits (8,089) 9.88 Proceeds from (payments for): (1,575) (2,101) Obeyosits (8,089) 9.88 Proceeds from Codes of Borrowings (8,089) 9.88 Proceeds from (payments for): (1,575) (2,101) Busiance of Borrowings (8,091) 15,370 Payments for: (1,1927) (11,377) Busiance of Borrowings (8,091) 15,370 Cash and cash (burnal maturity) (1,692) (5,000) Cash and cash (burnal maturity)	Net cash provided by (used for) operating activities	, , ,	,	
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Purchases 15,895	·	. ,	`	
Purchases (15,895) (5,482) Proceeds from sales 7,875 810 Proceeds from palodwins and maturities 2,663 2,125 Other investing activities (12) (164) Net cash provided by (used for) investing activities (7,227) (6,922) Cash flows from financing activities Net proceeds from (payments for): (1,575) (2,101) Other secured financings (8,089) 988 Proceeds from: (8,089) 988 Possitation of Service of Browings (8,081) (1	•	(1,329)	(3,80	J1)
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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) Net cash provided by (used for) financing activities (15,864) 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 80,385 Cash and cash equivalents, at end of period 80,682 87,344 Cash and cash equivalents. 35,472 29,073 Interest bearing deposits with banks 14,498 22,980 Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period 80,682 87,344 Supplemental Disclosure of Cash Flow Information	Proceeds from:			
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) Net cash provided by (used for) financing activities (15,864) 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 Cash and cash equivalents, at end of period \$35,472 29,073 Interest bearing deposits with banks 14,498 22,980 Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period \$80,682 \$7,344 Supplemental Disclosure of Cash Flow Information \$80,682 \$7,344	Issuance of Borrowings	8,091	15,37	70
Repurchases of common stock and employee tax withholdings (1,645) (1,868) Cash dividends (663) (599) Other financing activities (56) (50) Net cash provided by (used for) financing activities (15,864) 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 Cash and cash equivalents, at end of period \$80,682 \$7,344 Cash and cush equivalents: 29,073 Interest bearing deposits with banks 14,498 22,980 Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period \$80,682 \$7,344 Supplemental Disclosure of Cash Flow Information \$80,682 \$7,344	Payments for:	(11 927)	(11.35	77)
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Net cash provided by (used for) financing activities (15,864) 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 Cash and cash equivalents, at end of period \$80,682 \$7,344 Cash and cash equivalents: \$35,472 \$29,073 Interest bearing deposits with banks 14,498 22,980 Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period \$80,682 \$7,344 Supplemental Disclosure of Cash Flow Information Cash payments for: \$2,896 \$1,407		. , ,		
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 Cash and cash equivalents, at end of period \$80,682 \$87,344 Cash and cash equivalents: \$35,472 \$29,073 Interest bearing deposits with banks 14,498 22,980 Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period \$80,682 \$87,344 Supplemental Disclosure of Cash Flow Information Cash payments for: \$2,896 \$1,407				
Net increase (decrease) in cash and cash equivalents (6,514) 6,949 Cash and cash equivalents, at beginning of period 87,196 80,395 Cash and cash equivalents, at end of period \$80,682 \$87,344 Cash and cash equivalents:		, , ,		
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Cash and cash equivalents, at end of period \$ 80,682 \$ 7,344 Cash and cash equivalents:	, , ,			
Cash and cash equivalents: \$ 35,472 \$ 29,073 Interest bearing deposits with banks 14,498 22,980 Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period \$ 80,682 \$ 87,344 Supplemental Disclosure of Cash Flow Information Cash payments for: \$ 2,896 \$ 1,407		· · · · · · · · · · · · · · · · · · ·		
Cash and due from banks \$ 35,472 \$ 29,073 Interest bearing deposits with banks 14,498 22,980 Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period \$ 80,682 \$ 87,344 Supplemental Disclosure of Cash Flow Information Cash payments for: \$ 2,896 \$ 1,407	•	φ 00,002	φ 67,32	+4
Restricted cash 30,712 35,291 Cash and cash equivalents, at end of period \$ 80,682 \$ 87,344 Supplemental Disclosure of Cash Flow Information Cash payments for: \$ 2,896 \$ 1,407		\$ 35,472	\$ 29,07	73
Cash and cash equivalents, at end of period \$80,682 \$87,344 Supplemental Disclosure of Cash Flow Information Cash payments for: Interest \$2,896 \$1,407	Interest bearing deposits with banks	14,498	22,98	30
Supplemental Disclosure of Cash Flow Information Cash payments for: Interest \$ 2,896 \$ 1,407	Restricted cash	30,712	35,29	91
Cash payments for: Interest \$ 2,896 \$ 1,407	Cash and cash equivalents, at end of period	\$ 80,682	\$ 87,34	44
Interest \$ 2,896 \$ 1,407	Supplemental Disclosure of Cash Flow Information			
		\$ 2896	\$ 1 40	07
	Income taxes, net of refunds	245		

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.

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

	At March 31, 2019								
\$ in millions	Level 1	Level 2	Level 3	Netting ¹	Total				
Assets at fair value									
Trading assets:									
U.S. Treasury and agency securities	\$ 47,877	\$ 22,821 \$	7 9	s — s	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 ²	_	5,012	6,343	_	11,355				
Corporate and other debt	_	20,014	1,061	_	21,075				
Corporate equities ³	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 ¹	(3,633) (212,585)	(873)	(43,036)	(260,127)				
Total derivative and other									
contracts	1,841		4,864	(43,036)	28,936				
Investments ⁴	369	149	974		1,492				
Physical commodities		441	_	_	441				
Total trading assets4	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				
Total assets at fair value	\$ 199,697	\$153,279 \$	13,719	\$(43,036)	323,659				

A4 March 24 2040

	At March 31, 2019									
\$ in millions	Level 1	Level 2	Level 3	Netting ¹	Total					
Liabilities at fair value 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 ³	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 ¹	(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					
Total liabilities at fair value	\$105,205	\$124,982	\$ 8,293	\$(31,854)	\$206,626					

	At December 31, 2018							
\$ in millions	Level 1	Level 2	Level 3	Netting ¹	Total			
Assets at fair value 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 ²	_	4,055	6,870	_	10,925			
Corporate and other debt	_	18,129	1,076	_	19,205			
Corporate equities ³	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			
Equity	1,256	45,596	1,022	_	47,874			
Commodity and other	963	8,517	2,992	_	12,472			
Netting ¹	(4,151)	(210,190)	(896)	(44,175)	(259,412)			
Total derivative and other contracts	923	67,680	4,745	(44,175)	29,173			
Investments ⁴	412	293	757	_	1,462			
Physical commodities	_	536	_	_	536			
Total trading assets ⁴	162,123	131,653	14,116	(44,175)	263,717			
Investment securities—AFS	36,399	24,662	_		61,061			
Intangible assets		5			5			
Total assets at fair value	\$198,522	\$156,320	\$ 14,116	\$(44,175)	\$324,783			

	At December 31, 2018						
\$ in millions	Level 1	Level 2	Level 3	Netting ¹	Total		
Liabilities at fair value 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 ³	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 ¹	(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		
Total liabilities at fair value	\$ 89,814	\$120,058	\$ 7,502	\$(32,944)	\$184,430		

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.
- For a further breakdown by type, see the following Loans and Lending Commitments at Fair Value table.
- 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

\$ in millions	At March 31, 2019	De	At ecember 31, 2018
Corporate	\$ 8,307	\$	9,171
Residential real estate	1,282		1,153
Commercial real estate	1,766		601
Total	\$ 11,355	\$	10,925

Unsettled Fair Value of Futures Contracts1

\$ in millions	At March 31, 2019	De	At cember 31, 2018
Customer and other receivables, net	\$ 727	\$	615

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.

Rollforward of Level 3 Assets and Liabilities Measured at Fair Value on a Recurring Basis

Sim millions 2019 2018 Assets at Fair value U.S. Treasury and agency securities Seginning balance 54 — Sales (50) — Net transfers 3 — Ending balance 7 S — Unrealized gains (losses) \$ 7 S — Other sovereign government obligations \$ 17 \$ 1 Purchases 2 7 \$ 1 Purchases 2 7 \$ 1 Sales (2) — N 1 1 1 Het transfers (12) (11) 1 — 1 — — 1 — — 1 — — 1 — — 1 — — 1 — — 1 — — 1 — — 1 — — 1 — 1 — — 1 — — <	-		Three Mor		
Design Segn Segn	\$ in millions		2019		2018
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Unrealized gains (losses) \$ (14) \$ 2 Loans and lending commitments 8 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 8 701 \$ 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	Net transfers		21		32
Loans and lending commitments \$ 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 8 701 \$ 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	Ending balance	\$	301	\$	342
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)	\$	(14)	\$	2
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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 8 14		•	_		
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Purchases 204 350 Sales (127) (243) Settlements (3) — Net transfers (132) 5 Ending balance \$ 1,061 \$ 814	Beginning balance	\$		\$	
Sales (127) (243) Settlements (3) — Net transfers (132) 5 Ending balance \$ 1,061 \$ 814					•
Settlements (3) — Net transfers (132) 5 Ending balance \$ 1,061 \$ 814					
Net transfers (132) 5 Ending balance \$ 1,061 \$ 814					(243)
Ending balance \$ 1,061 \$ 814					
			(132)		
Unrealized gains (losses) \$ 41 \$ (1)					
	Unrealized gains (losses)	\$	41	\$	(1)

	Three Months Ended March 31,					
\$ in millions		2019	2018			
Corporate equities 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)		
Investments		<u> </u>	Ψ	(0)		
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		
Net derivative and other contracts: Interest rate 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		
Credit Beginning balance	\$	40	\$	41		
Realized and unrealized gains (losses)		162		(107)		
Purchases		26				
Issuances		(442)				
Settlements Not transfers		(33)		38		
Net transfers	•	(14)	Φ.	(2)		
Ending balance	\$	(261)	\$	(30)		
Unrealized gains (losses)	\$	167	\$	(109)		
Foreign exchange Beginning balance	\$	75	\$	(112)		
Realized and unrealized gains (losses)		(113)		57		
Purchases		1		_		
Issuances		_		(31)		
Settlements		8		33		
Net transfers		34		20		
Ending balance	\$	5	\$	(33)		
Unrealized gains (losses)	\$	3	\$	(9)		
Equity Beginning balance	\$	(1,485)	\$	1,208		
Realized and unrealized gains (losses)		(191)		356		
Purchases		34		142		
Issuances		(193)		(799)		
Settlements		139		159		
Net transfers		(64)		(51)		
Ending balance	\$	(1,760)	\$	1,015		
Unrealized gains (losses)	\$	(203)	\$	315		

\$ in millions	Three Months Ended March 31, 2019 2018				
		2019		2016	
Commodity and other	¢	2.052	¢.	1 116	
Beginning balance	\$	2,052 43	Ф	1,446	
Realized and unrealized gains (losses)				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	
Liabilities at Fair Value					
Deposits					
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	
Nonderivative trading liabilities					
Beginning balance	\$	16	\$	25	
Realized and unrealized losses (gains)	Ψ	(1)		(4	
Purchases					
Sales		(6)		(7	
		23		15	
Net transfers	.	11	Φ.	10	
Ending balance	\$	43	\$	39	
Unrealized losses (gains)	\$	(1)	Ф	(4	
Securities sold under agreements to re	epurch	ase			
Beginning balance	\$	_	\$	150	
Net transfers		_		(150	
Ending balance	\$	_	\$	_	
Unrealized losses (gains)	\$	_	\$		
Oth					
Other secured financings Beginning balance	\$	208	Ф	239	
Realized and unrealized losses (gains)	Ψ	4	Ψ		
				(13	
Issuances Settlements		(7)			
		(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

\$ in millions, except inputs	;	At March 31, 2019	At December 31, 2018
Assets Measured at Fair Va	lue o		
MABS	\$	301	\$ 354
Comparable pricing:			
Bond price	1	to 91 points (37 points)	0 to 97 points (38 points)
Loans and lending commitments	\$	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 1	to 104 points (98 points)	60 to 101 points (95 points)
Corporate and other debt	\$	1,061	\$ 1,076
Comparable pricing:			
Bond price	12 1	to 100 points (72 points)	12 to 100 points (72 points)
Discounted cash flow:			
Recovery rate		27%	20%
Discount rate		N/M	15% to 21% (16%)
Option model:			
At the money volatility		24% to 70% (56%)	24% to 78% (50%)
Corporate equities	\$	152	\$95
Comparable pricing:			
Equity price		100%	100%
Investments	\$	974	\$ 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%)
Net derivative and other contracts:			
Interest rate	\$	551	\$ 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%

A	Balance / Ran		A . D
\$ in millions, except inputs	At March 31, 2019		At December 31, 2018
Credit	\$ (261)	\$	40
Comparable pricing:			
Cash-synthetic basis	12 points		8 to 9 points (9 points
Bond price	0 to 83 points (38 points)		to 75 points (26 points
Credit spread	227 to 584 bps (307 bps)	2	46 to 499 bps (380 bps
Funding spread	42 to 112 bps (91 bps)		47 to 98 bps (93 bps
Correlation model:			
Credit correlation	36% to 68% (42%)		36% to 69% (44%
Foreign exchange ²	\$ 5	\$	75
Option model:			
IR FX correlation	5% to 57% (36% / 36%)	5	3% to 56% (55% / 55%
IR volatility skew	23% to 98% (59% / 61%)	2	2% to 95% (48% / 51%
Contingency probability	80% to 95% (90% / 90%)	9	0% to 95% (93% / 95%
Equity ²	\$ (1,760)	\$	(1,485
Option model:			
At the money volatility	6% to 69% (36%)		17% to 63% (38%
Volatility skew	-2% to 0% (-1%)		-2% to 0% (-1%
Equity correlation	5% to 96% (65%)		5% to 96% (71%
FX correlation	-60% to 55% (-21%)		-60% to 55% (-26%
IR correlation	-7% to 45% (16% / 13%)		7% to 45% (15% / 12%
Commodity and other	\$ 2,106	\$	2,052
Option model:	2,100	Ψ	2,002
•	\$4 to \$172 (\$30) per MWh	¢ 2 :	to \$185 (\$31) per MW/h
Forward power price	\$4 to \$172 (\$30) per MWh	\$31	, , ,
Forward power price Commodity volatility	\$4 to \$172 (\$30) per MWh 7% to 130% (16%)	\$31	, ,,
Forward power price	, ,,	\$31	7% to 187% (17%
Forward power price Commodity volatility Cross-commodity correlation	7% to 130% (16%)		7% to 187% (17% 5% to 99% (93%
Forward power price Commodity volatility Cross-commodity correlation	7% to 130% (16%) 5% to 99% (93%)		7% to 187% (17% 5% to 99% (93% ag Basis
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu	ırrin	7% to 187% (17% 5% to 99% (93% ag Basis
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu	ırrin	7% to 187% (17% 5% to 99% (93% og Basis
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%)	ırrin	7% to 187% (17% 5% to 99% (93%) 1g Basis 27
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%)	urrin \$	7% to 187% (17% 5% to 99% (93%) 1g Basis 27
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow:	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153	ırrin \$	7% to 187% (17% 5% to 99% (93% ag Basis 27 N/M 208
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%)	ırrin \$	7% to 187% (17% 5% to 99% (93% ag Basis 27 N/M 208
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model:	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps)	ırrin \$	7% to 187% (17% 5% to 99% (93%) 19 Basis 27 N/M 208 03 to 193 bps (148 bps)
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M	ırrin \$	7% to 187% (17% 5% to 99% (93%) 1g Basis 27 N/M 208 03 to 193 bps (148 bps) -1%
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%)	### ### ### ### ######################	7% to 187% (17% 5% to 99% (93% 1g Basis 27 N/M 208 03 to 193 bps (148 bps -1% 10% to 40% (25%
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M	ırrin \$	7% to 187% (17% 5% to 99% (93% 1g Basis 27 N/M 208 03 to 193 bps (148 bps -1% 10% to 40% (25%
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model:	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775	### ### ### ### ######################	7% to 187% (17% 5% to 99% (93% 19 Basis 27 N/M 208 03 to 193 bps (148 bps -1% 10% to 40% (25% 3,806
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%)	### ### ### ### ######################	7% to 187% (17% 5% to 99% (93% 19 Basis 27 N/M 208 03 to 193 bps (148 bps -1% 10% to 40% (25% 3,806
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%)	### ### ### ### ######################	7% to 187% (17% 5% to 99% (93% 1g Basis 27 N/M 208 03 to 193 bps (148 bps -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0%
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%)	### ### ### ### ######################	7% to 187% (17% 5% to 99% (93%) 19 Basis 27 N/M 208 03 to 193 bps (148 bps -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85%
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%)	\$ 1	7% to 187% (17% 5% to 99% (93%) 19 Basis 27 N/M 208 03 to 193 bps (148 bps -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85% -75% to 50% (-27%
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation IR Correlation	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%) N/M	\$ 1 \$	7% to 187% (17% 5% to 99% (93%) 1g Basis 27 N/M 208 03 to 193 bps (148 bps) -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85%) -75% to 50% (-27%) 8% to 97% (85% / 91%)
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%)	\$ 1 \$	7% to 187% (17% 5% to 99% (93%) 1g Basis 27 N/M 208 03 to 193 bps (148 bps) -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85%) -75% to 50% (-27%) 8% to 97% (85% / 91%)
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation IR Correlation IR FX Correlation	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%) N/M 27% to 58% (39% / 34%) alue Measurement	\$ \$ \$ 56 25	7% to 187% (17% 5% to 99% (93%) 1g Basis 27 N/M 208 03 to 193 bps (148 bps) -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85% -75% to 50% (-27%) 8% to 97% (85% / 91%) 8% to 58% (44% / 44%)
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation IR Correlation IR TX Correlation Nonrecurring Fair Val	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%) N/M 27% to 58% (39% / 34%)	\$ 1 \$	7% to 187% (17% 5% to 99% (93%) 1g Basis 27 N/M 208 03 to 193 bps (148 bps) -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85% -75% to 50% (-27%) 8% to 97% (85% / 91%) 8% to 58% (44% / 44%)
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation IR Correlation IR TX Correlation Nonrecurring Fair Valans Corporate loan model:	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%) N/M 27% to 58% (39% / 34%) alue Measurement \$ 1,166	\$ 1 \$ \$ 5i 2:	7% to 187% (17% 5% to 99% (93%) 1g Basis 27 N/M 208 03 to 193 bps (148 bps) -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85% -75% to 50% (-27% 8% to 97% (85% / 91%) 8% to 58% (44% / 44%) 1,380
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation IR Correlation IR FX Correlation Nonrecurring Fair Valans Corporate loan model: Credit spread	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%) N/M 27% to 58% (39% / 34%) alue Measurement	\$ 1 \$ \$ 5i 2:	to \$185 (\$31) per MWh 7% to 187% (17% 5% to 99% (93%) 19 Basis 27 N/M 208 03 to 193 bps (148 bps) 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85% -75% to 50% (-27% 8% to 97% (85% / 91% 8% to 58% (44% / 44%) 1,380 97 to 434 bps (181 bps)
Forward power price Commodity volatility Cross-commodity correlation Liabilities Measured Deposits Option Model At the money volatility Other secured financings Discounted cash flow: Funding spread Option model: Volatility skew At the money volatility Borrowings Option model: At the money volatility Volatility skew Equity correlation Equity - FX correlation IR Correlation IR TX Correlation Nonrecurring Fair Valans Corporate loan model:	7% to 130% (16%) 5% to 99% (93%) at Fair Value on a Recu \$ 99 15% to 42% (21%) \$ 153 112 to 205 bps (158 bps) N/M 10% to 40% (26%) \$ 3,775 6% to 34% (21%) -2% to 0% (0%) 38% to 98% (81%) -55% to 30% (-27%) N/M 27% to 58% (39% / 34%) alue Measurement \$ 1,166	\$ 1 \$ \$ 5 6 2 5 \$	7% to 187% (17% 5% to 99% (93%) 1g Basis 27 N/M 208 03 to 193 bps (148 bps) -1% 10% to 40% (25% 3,806 5% to 35% (22% -2% to 0% (0% 45% to 98% (85% -75% to 50% (-27% 8% to 97% (85% / 91% 8% to 58% (44% / 44%) 1,380

Points—Percentage of par

IR—Interest rate

- FX—Foreign exchange
- 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

	At Mar	ch 31, 2019	At Decen	nber 31, 2018
\$ in millions	Carrying Value	Commitment	Carrying Value	Commitment
Private equity	\$ 1,455	\$ 314	\$ 1,374	\$ 316
Real estate	1,248	149	1,105	161
Hedge ¹	102	4	103	4
Total	\$ 2,805	\$ 467	\$ 2,582	\$ 481

 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.

Nonredeemable Funds by Contractual Maturity

	Carrying Value at March 31, 2019					
\$ in millions	Priva	te Equity	Real Estate			
Less than 5 years	\$	705	\$	634		
5-10 years		723		555		
Over 10 years		27		59		
Total	\$	1,455	\$	1,248		

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

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

Earnings Impact of Borrowings under the Fair Value Option

	Three Months Ended March 3					
\$ in millions	2019			2018		
Trading revenues	\$	(2,903)	\$	26		
Interest expense		(93)		(102)		
Net revenues ¹	\$	(2,996)	\$	(76)		

 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

	Three Months Ended March 31,							
-		201	9			2018	3	
\$ in millions		iding enues		OCI		rading venues	(OCI
Borrowings	\$	(4)	\$	(816)	\$	(15)	\$	593
Loans and other debt1		93		_		81		_
Lending commitments		(1)		_		2		_
Other		_		(4)		_		2

\$ in millions		At rch 31, 2019	At December 31, 2018		
Cumulative pre-tax DVA gain (loss) recognized in AOCI	\$	(648)	\$	172	

 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

\$ in millions	At March 31, 2019	At December 31, 2018		
Loans and other debt1	\$ 13,031	\$	13,094	
Nonaccrual loans ¹	10,677		10,831	
Borrowings ²	730		2,657	

- 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.
- 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

\$ in millions	At irch 31, 2019	At December 31, 2018		
Nonaccrual loans	\$ 1,198	\$	1,497	
Nonaccrual loans 90 or more days past due	\$ 769	\$	812	

Nonrecurring Fair Value Measurements

Carrying and Fair Values

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

	At December 31, 2018									
		Fair Value								
\$ in millions	L	evel 2	L	evel 3 ¹		Total				
Assets										
Loans	\$	2,307	\$	1,380	\$	3,687				
Other assets—Other investments		14		100		114				
Other assets—Premises, equipment and software		_		_						
Total	\$	2,321	\$	1,480	\$	3,801				
Liabilities										
Other liabilities and accrued expenses—Lending										
commitments	\$	292	\$	65	\$	357				
Total	\$	292	\$	65	\$	357				

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 Remeasurements¹

	Thre	Three Months Er March 31,							
\$ in millions	201	19	2018						
Assets									
Loans ²	\$	36	\$	8					
Other assets—Other investments		(5)							
Other assets—Premises, equipment and software		(2)		(8)					
Total	\$	29	\$	_					
Liabilities									
Other liabilities and accrued expenses—									
Lending commitments ²	\$	67	\$	6					
Total	\$	67	\$	6					

- 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.

Financial Instruments Not Measured at Fair Value

Carrying and Fair Values

	At March 31, 2019									
		arrying _			Fair V	'alue				
\$ in millions		Value	L	evel 1	Level 2	Level 3	Total			
Financial assets										
Cash and cash equivalents:										
Cash and due from banks	\$	35,472	\$	35,472	\$ <u></u>	\$ <u></u>	\$ 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 ¹		47,854		_	44,907	2,836	47,743			
Loans ²		116,197		_	24,888	91,610	116,498			
Other assets		461		_	461	_	461			
Financial liabilities 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 ¹		189,712			189,712		189,712			
Borrowings		134,227		_	137,906	30	137,936			
		nmitmen mount	t							
Lending commitments ³	\$	113,418	\$	_	\$ 947	\$ 294	\$ 1,241			

At December 31, 2018								
	Carrying _			Fair				
	Value	L	evel 1	Level 2		Level 3	1	otal
\$	30,541	\$	30,541	\$ -	_	\$ —	\$ 3	30,541
	21,299		21,299	_	_	_	2	21,299
	35,356		35,356	_	_	_	:	35,356
	30,771		17,473	12,01	8	474		29,965
	98,522		_	97,61	1	866		98,477
	116,313		_	116,31	2	_	1	16,312
	47,972		_	44,62	0	3,219		47,839
	115,579		_	25,60	4	90,121	1	15,725
	461		_	46	1	_		461
\$	187,378	\$	_	\$187,37	2	\$ —	\$18	37,372
	48,947		_	48,38	5	525		48,910
	11,908		_	11,90	6	_		11,906
	4,221		_	3,23	3	994		4,227
	176,561		_	176,56	1	_	1	76,561
	138,478		_	140,08	5	30	14	40,115
\$	104,844	\$		\$ 1,24	9	\$ 321	\$	1,570
	\$ \$	\$ 30,541 21,299 35,356 30,771 98,522 116,313 47,972 115,579 461 \$ 187,378 48,947 11,908 4,221 176,561 138,478 Commitment Amount	\$ 30,541 \$ 21,299 35,356 30,771 98,522 116,313 47,972 115,579 461 \$ 187,378 \$ 48,947 11,908 4,221 176,561 138,478 Commitment Amount	Carrying Value Level 1 \$ 30,541 \$ 30,541 21,299 21,299 35,356 35,356 30,771 17,473 98,522 — 116,313 — 47,972 — 461 — \$ 187,378 \$ 48,947 — 4,221 — 138,478 — Commitment Amount —	Carrying Value Fair Level 1 Level 2 \$ 30,541 \$ 30,541 \$ - 21,299	Carrying Value Fair V. \$ 30,541 \$ 30,541 \$ — 21,299 21,299 — 35,356 35,356 — 30,771 17,473 12,018 98,522 — 97,611 116,313 — 116,312 47,972 — 44,620 115,579 — 25,604 461 — 461 \$ 187,378 \$ — \$187,372 48,947 — 48,385 11,908 — 11,906 4,221 — 3,233 176,561 — 176,561 138,478 — 140,085 Commitment Amount	Carrying Value Fair Value Level 1 Level 2 Level 3 \$ 30,541 \$ 30,541 \$ — — 21,299 21,299 — — 35,356 35,356 — — 30,771 17,473 12,018 474 98,522 — 97,611 866 116,313 — 116,312 — 47,972 — 44,620 3,219 115,579 — 25,604 90,121 461 — 461 — 48,947 — 48,385 525 11,908 — 11,906 — 4,221 — 3,233 994 176,561 — 140,085 30 Commitment Amount — 140,085 30	Carrying Value Fair Value Value Level 1 Level 2 Level 3 Tevel 3 \$ 30,541 \$ 30,541 \$ - \$ - \$ 5 \$ 21,299 — — \$ 6 \$ 35,356 35,356 — — \$ 6 \$ 30,771 17,473 12,018 474 474 \$ 98,522 — 97,611 866 6 \$ 116,313 — \$ 116,312 — \$ 17 \$ 47,972 — \$ 44,620 3,219 3,219 115,579 — \$ 25,604 90,121 17 \$ 461 — 461 — \$ 18 461 — \$ 18 \$ 187,378 \$ \$ \$ 187,372 \$ - \$ 18 \$ 18 \$ 19 \$ 19 \$ 19 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$

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

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.

^{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.

4. Derivative Instruments and Hedging Activities

Fair Values of Derivative Contracts

At March 31, 2019

			Assets									
4	В	ilateral		eared		change-						
\$ in millions		OTC	(OTC	Traded		Total					
Designated as accounting	hedges	6										
Interest rate	\$	489	\$	1	\$	_	\$	490				
Foreign exchange		107		14		_		121				
Total		596		15		_		611				
Not designated as account Interest rate		dges 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		_	1	19,327		40,920				
Commodity and other		9,011		_		1,486		10,497				
Total	- 2	259,086	7	,792	2	21,574		288,452				
Total gross derivatives	\$ 2	259,682	\$7	,807	\$ 2	21,574	\$	289,063				
Amounts offset Counterparty netting	('	194,262)	(6	5,453)	(2	20,683)	(221,398)				
Cash collateral netting		(37,487)	(1	,242)		_		(38,729)				
Total in Trading assets	\$	27,933	\$	112	\$	891	\$	28,936				
Amounts not offset¹ Financial instruments collateral		(12,603)		_		_		(12,603)				
Other cash collateral		(59)		_		_		(59)				
Net amounts	\$	15,271	\$	112	\$	891	\$	16,274				
Net amounts for which maste not in place or may not be				l agree	men	ts are	\$	2,118				

	Liabilities										
	В	ilateral	Cleared		Ex	change-					
\$ in millions		OTC	OTC		Т	raded	Total				
Designated as accounting h	edges	;									
Interest rate	\$	88	\$	3	\$		\$	91			
Foreign exchange		17		32				49			
Total		105		35		_		140			
Not designated as accounting Interest rate		lges 155,653	3	,395		528		159,576			
Credit		4.631		,134		_		6,765			
Foreign exchange		58,577		,302		1		59,880			
Equity		25,681		_	1	19,677		45,358			
Commodity and other		5,514		_		1,458		6,972			
Total	2	250,056	6	,831	2	21,664		278,551			
Total gross derivatives	\$ 2	250,161	\$6	,866	\$ 2	21,664	\$	278,691			
Amounts offset Counterparty netting	(1	194,262)	(6	,453)	(2	20,683)	(221,398			
Cash collateral netting	•	(27,167)	•	(380)	•		•	(27,547			
Total in Trading liabilities	\$	28,732	\$	33	\$	981	\$	29,746			
Amounts not offset ¹ Financial instruments collateral		(8,466)				(392)		(8,858			
Other cash collateral		(48)		(30)		(002)		(78			
Net amounts	\$	20,218	\$	3	\$	589	\$	20,810			
Net amounts Net amounts for which master not in place or may not be le	nettin	g or colla	teral				<u>\$</u>	3,11			

At December 31, 2018

				As	ssets	S		
	В	ilateral	Cle	eared	E	xchange-		
\$ in millions		OTC	(OTC		Traded		Total
Designated as accounting h	edges							
Interest rate	\$	512	\$	1	\$		\$	513
Foreign exchange		27		8				35
Total		539		9		_		548
Not designated as accounting		dges 153.768	3	,887		697		158,352
Credit		4,630		,498		- 031		6,128
Foreign exchange		61.846		,310		55		63,211
Equity		24,590		,310		23,284		47,874
- · ·								
Commodity and other		10,538				1,934		12,472
Total		255,372		,695		25,970		288,037
Total gross derivatives	\$ 2	255,911	\$6	,704	\$	25,970	\$	288,585
Amounts offset Counterparty netting	(190,220)	(5	,260)	(24,548)	(220,028
Cash collateral netting		(38,204)	(1	,180)		_		(39,384)
Total in Trading assets	\$	27,487	\$	264	\$	1,422	\$	29,173
Amounts not offset¹ Financial instruments collateral		(12,467)		_		_		(12,467)
Other cash collateral		(31)		_				(31)
Net amounts	\$	14,989	\$	264	\$	1,422	\$	16,675
Net amounts for which master not in place or may not be le		g or colla	tera	l agree	_		\$	2,206

	Liabilities									
_	Е	Bilateral	Cle	ared	Exchange-					
\$ in millions		OTC	0	OTC		Traded		Total		
Designated as accounting he	dges									
Interest rate	\$	176	\$	_	\$	_	\$	176		
Foreign exchange		62		24				86		
Total		238		24		_		262		
Not designated as accounting Interest rate		dges 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		
Total gross derivatives	\$	243,576	\$5	,603	\$	26,260	\$	275,439		
Amounts offset Counterparty netting	(190,220)	(5,	260)	(24,548)	(220,028)		
Cash collateral netting		(27,860)	((293)		_		(28, 153)		
Total in Trading liabilities	\$	25,496	\$	50	\$	1,712	\$	27,258		
Amounts not offset¹ Financial instruments collateral		(4,709)				(766)		(F 47F)		
		. , ,		- (4)		(700)		(5,475)		
Other cash collateral	_	(53)	_	(1)	_		_	(54)		
Net amounts	\$	20,734	\$	49	\$	946	\$	21,729		
Net amounts for which master r not in place or may not be leg				agree	mei	nts are	\$	4,773		

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.

Notionals of Derivative Contracts

At March 31, 2019

	Assets										
\$ in billions		Bilateral OTC		Cleared OTC		Exchange- Traded		otal			
Designated as accounting h	edges										
Interest rate	\$	15	\$	83	\$	_	\$	98			
Foreign exchange		10		1		_		11			
Total		25		84		_		109			
Not designated as accounting Interest rate		785	7	,900		1,042	13	3,727			
Credit		139		74		_		213			
Foreign exchange	2,7	731		104		13	2	2,848			
Equity	4	155		_		367		822			
Commodity and other		98		_		68		166			
Total	8,2	208	8	,078		1,490	17	7,776			
Total gross derivatives	\$ 8,2	233	\$8	,162	\$	1,490	\$17	7,885			

	Liabilities											
\$ in billions	Bilateral OTC		Cleared OTC			xchange- Traded	Total					
Designated as accounting hedg	jes \$	2	\$	75	\$		\$	77				
	Þ		Þ		Þ		Þ					
Foreign exchange		2		1				3				
Total		4		76		_		80				
Not designated as accounting h	nedges	5										
Interest rate	4,	956	7	,059		880	12	2,895				
Credit		156		84		_		240				
Foreign exchange	2,	748		102		12	2	2,862				
Equity		410		_		558		968				
Commodity and other		80		_		64		144				
Total	8,	350	7	,245		1,514	17	7,109				
Total gross derivatives	\$ 8,	354	\$7	,321	\$	1,514	\$17	7,189				

At December 31, 2018

	Assets									
\$ in billions	Bilateral OTC	Cleared OTC	Exchange- Traded	Total						
Designated as accounting h	edges									
Interest rate	\$ 15	\$ 52	\$ —	\$ 67						
Foreign exchange	5	1	_	6						
Total	20	53	_	73						
Not designated as accounting	ng hedges									
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						
Total gross derivatives	\$ 7,895	\$ 6,953	\$ 1,609	\$16,457						

	Liabilities				
\$ in billions	Bilateral OTC	Cleared OTC	Exchange Traded	- Total	
Designated as accounting he	dges				
Interest rate	\$ 2	\$ 107	\$ —	\$ 109	
Foreign exchange	5	1	_	6	
Total	7	108	_	115	
Not designated as accounting	hedges				
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	
Total gross derivatives	\$ 8,027	\$ 6,030	\$ 1,465	\$15,522	

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

\$ in millions		Three Months Er March 31,			
		019	2	2018	
Fair Value Hedges—Recognized in Interest Expense Interest rate contracts	\$ 1	,577	\$(1,841)	
Borrowings	(1	,621)		1,852	
Net Investment Hedges—Foreign exchange contracts 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

\$ in millions	At March 31, 2019		At December 31, 2018	
Investment Securities—AFS¹ Carrying amount² currently or previously hedged	\$	413	\$	201
Borrowings				
Carrying amount ² currently or previously hedged	\$	103,460	\$	102,899
Basis adjustments included in carrying amount ³	\$	(74)	\$	(1,689)

- Amounts recognized in interest income and basis adjustments related to AFS securities were not material.
- 2. Carrying amount represents amortized cost basis.
- Hedge accounting basis adjustments for Borrowings are primarily related to outstanding hedges.

Net Derivative Liabilities and Collateral Posted

\$ in millions	At March 31, 2019	De	At ecember 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

\$ in millions	М	At arch 31, 2019
One-notch downgrade	\$	452
Two-notch downgrade		277
Bilateral downgrade agreements included in the amounts above ¹	\$	685

 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 Sold¹

	Y	Years to Maturity at March 31, 2019						
\$ in millions	< 1	1-3	3-5	Over 5	Total			
Single-name CDS								
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			
Total	\$28,894	\$33,954	\$29,213	\$14,902	\$106,963			
Index and basket CDS 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			
Total	\$10,494	\$14,504	\$46,319	\$36,274	\$107,591			
Total CDS sold	\$39,388	\$48,458	\$75,532	\$51,176	\$214,554			
Other credit contracts	_	_	_	105	105			
Total credit protection sold	\$39,388	\$48,458	\$75,532	\$51,281	\$214,659			
CDS protection sold with i	dentical pro	tection nur	chased		\$199.507			

	Years to Maturity at December 31, 2018				
\$ in millions	< 1	1-3	3-5	Over 5	Total
Single-name CDS Investment grade	\$22,297	\$23,876	\$ 19,469	\$ 7,844	\$ 73,486
Non-investment grade	10,135	11,061	9,020	861	31,077
Total	\$32,432	\$34,937	\$ 28,489	\$ 8,705	\$104,563
Index and basket CDS 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
Total	\$ 9,915	\$15,721	\$ 73,742	\$20,088	\$119,466
Total CDS sold	\$42,347	\$50,658	\$102,231	\$28,793	\$224,029
Other credit contracts	_	_	_	116	116
Total credit protection sold	\$42,347	\$50,658	\$102,231	\$28,909	\$224,145
CDS protection sold with ide	entical prote	ection purc	hased		\$209,972

Fair Value Asset (Liability) of Credit Protection Sold¹

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

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

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

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

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.

At March 31 2010

5. Investment Securities

AFS and HTM Securities

	At March 31, 2019							
\$ in millions	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value				
AFS securities								
U.S. government and agency see								
U.S. Treasury securities	\$ 32,144	\$ 83	\$ 448	\$ 31,779				
U.S. agency securities ¹	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 ²	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				
HTM securities U.S. government and agency sec U.S. Treasury securities	curities: 21,349	172	251	21,270				
U.S. agency securities ¹	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				
Total investment securities	\$ 98,598	\$ 424	\$ 1,357	\$ 97,665				

	At December 31, 2018				
\$ in millions	Amortized Cost	Un	Gross realized Gains	Gross Unrealized Losses	l Fair Value
AFS securities					
U.S. government and agency sec					
U.S. Treasury securities	\$ 36,268	\$	40	\$ 656	\$ 35,652
U.S. agency securities ¹	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 ²	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
HTM securities					
U.S. government and agency sec	urities:				
U.S. Treasury securities	17,832		44	403	17,473
U.S. agency securities ¹	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

U.S. agency securities consist mainly of agency-issued debt, agency mortgage pass-through pool securities and CMOs.

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.

Investment Securities in an Unrealized Loss Position

					At March 3	31, 20	19			
	Less than 12 Months				12 Months or Longer			Total		
\$ in millions	Fa	ir Value	Gross Unrealized Losses		Fair Value	Unr	Gross ealized osses	Fair Value	Un	Gross realized osses
AFS securities				_						
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	•	l	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	3	5	38,635		818	43,355		853
HTM securities										
U.S. government and agency securities:										
U.S. Treasury securities		99	_	-	9,495		251	9,594		251
U.S. agency securities		303	2	2	9,505		250	9,808		252
Total U.S. government and agency securities		402	2	2	19,000		501	19,402		503
Corporate and other debt:										
Non-agency CMBS		66	•	l	110		_	176		1
Total HTM securities		468		3	19,110		501	19,578		504
Total investment securities	\$	5,188	\$ 38	3 \$	57,745	\$	1,319	\$ 62,933	\$	1,357

					A	At Decembe	er 31,	2018				
\$ in millions		Less than 12 Months				12 Months	or Lo	nger		Tot	al	
		Gros Unreal		Pross realized osses	Fair Value		Gross Unrealized ue Losses		Fair Value		Gross Unrealized Losses	
AFS securities												
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
HTM securities												
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
Total investment securities	\$	36,101	\$	1,010	\$	32,973	\$	1,124	\$	69,074	\$	2,134

At March 31 2019

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

At March 31, 2019				
Amortized Cost	Fair Value	Annualized Average Yield		
\$ 4,665	\$ 4,647	1.7%		
22,997	22,730	1.9%		
4,482	4,402	2.1%		
32,144	31,779			
498	496	1.1%		
699	691	1.1%		
1,584	1,554	1.8%		
21,076	20,880	2.4%		
23,857	23,621			
56.001	55.400	2.1%		
228	227	1.4%		
994	1,011	3.2%		
743	691	1.6%		
1,965	1,929			
36	35	2.5%		
307		2.3%		
		2.070		
23	23	1.4%		
1,427	1,421	2.6%		
274	274	3.3%		
1,724	1,718			
	\$ 4,665 22,997 4,482 32,144 498 699 1,584 21,076 23,857 56,001 228 994 743 1,965 36 307 343 23 1,427 274	Amortized Cost Fair Value \$ 4,665 \$ 4,647 22,997 22,730 4,482 4,402 32,144 31,779 498 496 699 691 1,584 1,554 21,076 20,880 23,857 23,621 56,001 55,400 228 227 994 1,011 743 691 1,965 1,929 36 35 307 301 343 336 23 23 1,427 1,421 274 274		

	At March 31, 2019						
\$ in millions	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%				
Total investment securities	\$ 98,598	\$ 97,665	2.3%				

Gross Realized Gains (Losses) on Sales of AFS Securities

	Three Months Ende March 31,						
\$ in millions Gross realized gains	20	19	2	2018			
	\$	19	\$	1			
Gross realized (losses)		(9)		(1)			
Total ¹	\$	10	\$	_			

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

6. Collateralized Transactions

Offsetting of Certain Collateralized Transactions

		At N	larch 31, 2	019	
\$ in millions	Gross Amounts	Amounts Offset	Net Amounts Presented	Amounts Not Offset ¹	Net Amounts
Assets 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
Liabilities 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
Net amounts for which not be legally enfor Securities purchased u	rceable			not in place	or may \$ 2,419
Securities borrowed					773
Securities sold under a	agreements t	o repurchas	e		5,148
occurred sold dilaci t					
Securities loaned					107
	Gross Amounts	At De	cember 31, Net Amounts Presented	2018 Amounts Not Offset ¹	Net
Securities loaned	Gross Amounts	Amounts	Net Amounts Presented	Amounts	Net Amounts
\$ in millions Assets Securities purchased under agreements	Gross Amounts	Amounts Offset \$(164,454)	Net Amounts Presented	Amounts Not Offset ¹	Net Amounts
\$ in millions Assets Securities purchased under agreements to resell Securities borrowed Liabilities Securities sold under agreements to	Gross Amounts \$ 262,976 134,711	Amounts Offset \$(164,454) (18,398)	Net Amounts Presented \$ 98,522 116,313	Amounts Not Offset ¹ \$ (95,610) (112,551)	Net Amounts \$ 2,912 3,762
\$ in millions Assets Securities purchased under agreements to resell Securities borrowed Liabilities Securities sold under agreements to repurchase	Gross Amounts \$ 262,976 134,711 \$ 214,213	Amounts Offset \$(164,454) (18,398) \$(164,454)	Net Amounts Presented \$ 98,522 116,313	Amounts Not Offset ¹ \$ (95,610) (112,551) \$ (41,095)	Net Amounts \$ 2,912 3,762 \$ 8,664
\$ in millions Assets Securities purchased under agreements to resell Securities borrowed Liabilities Securities sold under agreements to	Gross Amounts \$ 262,976 134,711 \$ 214,213 30,306 ch master ne	Amounts Offset \$(164,454) (18,398) \$(164,454) (18,398)	Net Amounts Presented \$ 98,522 116,313 \$ 49,759 11,908	Amounts Not Offset ¹ \$ (95,610) (112,551) \$ (41,095) (11,677)	Net Amounts \$ 2,912 3,762 \$ 8,664 231
\$ in millions Assets Securities purchased under agreements to resell Securities borrowed Liabilities Securities sold under agreements to repurchase Securities loaned Net amounts for which	Gross Amounts \$ 262,976 134,711 \$ 214,213 30,306 ch master nerceable	\$(164,454) (18,398) \$(164,454) (18,398) etting agree	Net Amounts Presented \$ 98,522 116,313 \$ 49,759 11,908 ments are	Amounts Not Offset ¹ \$ (95,610) (112,551) \$ (41,095) (11,677)	Net Amounts \$ 2,912 3,762 \$ 8,664 231
\$ in millions Assets Securities purchased under agreements to resell Securities borrowed Liabilities Securities sold under agreements to repurchase Securities loaned Net amounts for which not be legally enformations	Gross Amounts \$ 262,976 134,711 \$ 214,213 30,306 ch master nerceable	\$(164,454) (18,398) \$(164,454) (18,398) etting agree	Net Amounts Presented \$ 98,522 116,313 \$ 49,759 11,908 ments are	Amounts Not Offset ¹ \$ (95,610) (112,551) \$ (41,095) (11,677)	Net Amounts \$ 2,912 3,762 \$ 8,664 231 or may
\$ in millions Assets Securities purchased under agreements to resell Securities borrowed Liabilities Securities sold under agreements to repurchase Securities loaned Net amounts for which not be legally enfortsell.	Gross Amounts \$ 262,976	\$(164,454) (18,398) \$(164,454) (18,398) etting agree	Net Amounts Presented \$ 98,522 116,313 \$ 49,759 11,908 ments are	Amounts Not Offset ¹ \$ (95,610) (112,551) \$ (41,095) (11,677)	Net Amounts \$ 2,912 3,762 \$ 8,664 231 or may \$ 2,579

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

_	At March 31, 2019					
\$ in millions	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	
Total	\$ 111,655	\$ 60,190	\$ 45,373	\$ 43,473	\$ 260,691	
	Overnight	Less than		Over		
\$ in millions	and Open	30 Days	Days	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	
Total	\$ 92,494	\$ 97,036	\$ 37,677	\$ 34,906	\$ 262,113	

Gross Secured Financing Balances by Class of Collateral Pledged

\$ in millions	At March 31, 2019		At December 31 2018		
Securities sold under agreements to repur U.S. Treasury and agency securities	chase \$	59,851	\$	68,487	
State and municipal securities	_	1,633		925	
Other sovereign government obligations		123,089		120,432	
ABS		2,112		3,017	
Corporate and other debt		7,327		8,719	
Corporate equities		11,624		12,079	
Other		423		554	
Total	\$	206,059	\$	214,213	
Securities loaned Other sovereign government obligations	\$	22,656	\$	19,021	
Corporate equities		11,736		10,800	
Other		379		485	
Total	\$	34,771	\$	30,306	
Total included in the offsetting disclosure	\$	240,830	\$	244,519	
Trading liabilities—Obligation to return se					
Corporate equities	\$	19,861	\$	17,594	
Total	\$	260,691	\$	262,113	

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

	At March 31.	At December 31,		
\$ in millions	2019		2018	
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

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

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

Restricted Cash and Segregated Securities

М	At arch 31, 2019	At December 31, 2018		
\$	30,712	\$	35,356	
	24,752		26,877	
\$	55,464	\$	62,233	
	\$	March 31, 2019 \$ 30,712 24,752	March 31, 2019 \$ 30,712 \$ 24,752	

 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

\$ in millions	М	At arch 31, 2019	Dec	At ember 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 customerowned 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

	At March 31, 2019									
\$ in millions		oans Held Investment		oans Held for Sale	To	otal 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)				
Total loans, net	\$	101,266	\$	14,931	\$	116,197				
Fixed rate loans, net					\$	16,450				
Floating or adjustable rate loans	s, ne	et				99,747				
Loans to non-U.S. borrowers, n	et					18,072				

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

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

Loans Held for Investment before Allowance by Credit Quality

At March 31, 2019

	Residential Commercial								
\$ in millions	Co	Corporate Consumer Real Estate 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			

	At December 31, 2018								
				Residential	Commercial				
\$ in millions	Co	orporate Co	onsumer	Real Estate	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

At March 31, 2019

	Residential									
\$ in millions	Cor	porate	Consumer	Real Est	ate	Total				
Loans										
With allowance	\$	265	\$	\$	_	\$265				
Without allowance ¹		20	5		65	90				
Total impaired loans	\$	285	\$ 5	\$	65	\$355				
UPB		292	5		66	363				
Lending commitments										
With allowance	\$	17	\$	\$	_	\$ 17				
Without allowance ¹		45	_		_	45				
Total impaired lending commitments		62	_		_	62				

		Rasio				
_		17691	dential			
Corp	orate Con	sumer Real	Estate Total			
\$	24 \$	— \$	— \$ 24			
	32	_	69 101			
\$	56 \$	— \$	69 \$125			
	63	_	70 133			
\$	19 \$	— \$	— \$ 19			
	34	_	— 34			
;	53		- 53			
	\$	\$ 56 \$ 63 \$ 19 \$ 34	\$ 56 \$ — \$ 63 — \$ 19 \$ — \$ 34 —			

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									
\$ in millions	Americas		EMEA		Asia	Total				
Impaired loans	\$	355	\$	_	\$ —	\$355				
Total Allowance for loan losses		211		46	2	259				

	At December 31, 2018								
\$ in millions	Am	Americas		ИЕА	Asia	Total			
Impaired loans	\$	125	\$	_	\$ —	\$125			
Total Allowance for loan losses		193		42	3	238			

Troubled Debt Restructurings

		At	At			
	Mar	ch 31,	December 3			
\$ in millions	20	019	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

	Residential Commercial								
\$ in millions	Cor	porate Con	sumer Real	Estate	Real Estate	Total			
December 31, 2018	\$	144 \$	7 \$	20	\$ 67	\$ 238			
Provision (release)		26	(1)	2	_	27			
Other		(6)	_	_	_	(6)			
March 31, 2019	\$	164 \$	6 \$	22	\$ 67	\$ 259			
Inherent	\$	150 \$	6 \$	22	\$ 67	\$ 245			
Specific		14	_	_	_	14			

				R	esidential	Comme	ercial	
\$ in millions	Cor	porate Cor	nsumer	Re	al Estate	Real E	state	Γotal
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

Allowance for Lending Commitments Rollforward

					F	Residential	Commercial	
\$ in millions	Co	orporate	C	onsumer	R	eal Estate	Real Estate	Total
December 31, 2018	\$	198	\$	2	\$	_	\$ 3	\$ 203
Provision (release)		8		_		_	1	9
Other		_		(1)		_	_	(1)
March 31, 2019	\$	206	\$	1	\$	_	\$ 4	\$ 211
Inherent	\$	202	\$	1	\$	_	\$ 4	\$ 207
Specific		4		_		_	_	4

\$ in millions	Сс	orporate	С	onsumer	-	Residential eal 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

\$ in millions	N	At larch 31, 2019	At ember 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

		At		At
	Ma	rch 31,	Dec	ember 31,
\$ in millions	:	2019		2018
Investments	\$	2,391	\$	2,432
	Three Months End March 31,			
\$ in millions		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

	Three Months Ended March 31,				
\$ in millions	2	019		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.

9. Deposits

Deposits

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

Time Deposit Maturities

\$ in millions	М	At arch 31, 2019
2019	\$	14,100
2020		13,381
2021		4,272
2022		1,866
2023		2,069
Thereafter		842
Total	\$	36,530

10. Borrowings and Other Secured Financings

Borrowings

\$ in millions	N	At /larch 31, 2019	De	At ecember 31, 2018
Original maturities of one year or less	\$	1,498	\$	1,545
Original maturities greater than one year Senior	\$	178,926	\$	178,027
Subordinated		10,267		10,090
Total	\$	189,193	\$	188,117
Total borrowings	\$	190,691	\$	189,662
Weighted average stated maturity, in years ¹		6.7		6.5

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

Other Secured Financings

\$ in millions	At March 31, 2019		Dec	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	
Total	\$	8,043	\$	9,466	

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

	,	Years to Maturity at March 31, 2019				
\$ in millions	Less than 1	1-3	3-5	Over 5	Total	
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	
Forward-starting secured financing receivables	121,612	_	_	8,322	129,934	
Underwriting	2,299	_	_	_	2,299	
Investment activities	513	93	49	243	898	
Letters of credit and other financial guarantees	187	1	_	2	190	
Total	\$ 151,713	\$ 31,429	\$ 50,093	\$ 14,407	\$ 247,642	
Corporate lending commitments participated to third parties					\$ 8,674	
Forward-starting secured financing receivables settled within three business days					\$ 110,917	

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

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

\$ in millions	At March 31, 2019		
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%	

Lease Liabilities

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

Lease Costs

\$ in millions	nths Ended 31, 2019
Fixed costs	\$ 170
Variable costs ¹	34
Less: Sublease income	(1)
Total lease cost, net	203

^{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

\$ in millions	onths Ended n 31, 2019
Cash outflows—Lease liabilities	\$ 165
Non-cash—ROU assets recorded for new and	
modified leases	40

Minimum Future Lease Commitments (under Previous GAAP)

\$ in millions	At December 31, 2018			
2019	\$	677		
2020		657		
2021		602		
2022		555		
2023		507		
Thereafter		2,639		
Total undiscounted cash flows	\$	5,637		
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

	Maximum Potential Payout/Notional										
\$ in millions	Le	ess 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				
Standby letters of credit and other financial guarantees issued ¹		1,015		1,037	1,302	4,174	7,528				
Market value guarantees		104		103	4	_	211				
Liquidity facilities		4,478		_	_	_	4,478				
Whole loan sales guarantees		_		1	_	23,175	23,176				
Securitization representations and warranties		_		_	_	64,939	64,939				
General partner guarantees		9		112	162	50	333				

	An	nount			
	Α	sset	Co	llateral/	
\$ in millions	(Lia	ability)	Re	course	
Credit derivatives ²	\$	209	\$	_	
Other credit contracts		(8)		_	
Non-credit derivatives ²	(4	41,254)		_	
Standby letters of credit and other financial					
guarantees issued ¹		222		6,350	
Market value guarantees		_		107	
Liquidity facilities		6		7,620	
Whole loan sales guarantees		(9)		_	
Securitization representations and warranties ³		(42)		_	
General partner guarantees		(71)		_	

- 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.
- 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.

Carrying

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.

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

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 preand 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.

12. Variable Interest Entities and Securitization Activities

Consolidated VIEs

Assets and Liabilities by Type of Activity

		At Marc	h 31,	2019		At December 31, 2018			
\$ in millions	VIE Assets		s VIE Liabilities			Assets	VIE Liabilities		
OSF	\$	260	\$	_	\$	267	\$	_	
MABS ¹		37		18		59		38	
Other ²		842		63		809		48	
Total	\$	1,139	\$	81	\$	1,135	\$	86	

OSF—Other structured financings

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

Assets and Liabilities by Balance Sheet Caption

\$ in millions	M	At arch 31, 2019	At December 31, 2018		
Assets					
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	
Total	\$	1,139	\$	1,135	
Liabilities					
Other secured financings	\$	49	\$	64	
Other liabilities and accrued expenses		32		22	
Total	\$	81	\$	86	
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								
\$ in millions	1	MABS	CDO	MTC	DВ	OSF		Other	
VIE assets (UPB)	\$	75,970	\$ 9,766	\$ 7,	110 \$	3,302	\$	19,512	
Maximum exposure to lo Debt and equity interests	ss¹ \$	8,080	\$ 938	\$	3 9	1,613	\$	5,261	
Derivative and other contracts		_	_	4,	478	_		1,966	
Commitments, guarantees and other	5	735	_		_	211		327	
Total	\$	8,815	\$ 938	\$ 4,	481 \$	1,824	\$	7,554	
Carrying value of expos Debt and equity interests	ure t	to loss– 8,080		\$	3 \$	1,194	\$	5,261	
Derivative and other contracts		_	_		6	_		228	
Total	\$	8,080	\$ 938	\$	9 9	1,194	\$	5,489	
Additional VIE assets own	ed2						\$	11,144	
Carrying value of expos Derivative and other contracts	ure			s \$	_ \$	s <u> </u>	\$	205	
			At Dec	embe	31 3	2018			
• in millions		IARS	At Dec					Othor	
\$ in millions VIE assets (LIPR)		IABS 71 287 §	CDO	МТС	ОВ	OSF	\$	Other	
\$ in millions VIE assets (UPB) Maximum exposure to lo Debt and equity interests	\$ oss¹	IABS 71,287 \$ 8,234 \$	CDO 3 10,848	MT0		OSF 3,314		Other 19,682 4,645	
VIE assets (UPB) Maximum exposure to lo	\$ oss¹	71,287 \$	CDO 3 10,848	MTC \$ 7,	OB 014 S	OSF 3,314		19,682	
VIE assets (UPB) Maximum exposure to lo Debt and equity interests Derivative and other	\$ oss¹	71,287 \$	CDO 3 10,848	MTC \$ 7,	OB 014 \$ — \$	OSF 3,314		19,682 4,645	
VIE assets (UPB) Maximum exposure to lo Debt and equity interests Derivative and other contracts Commitments,	\$ oss¹	71,287 \$ 8,234 \$ —	CDO 3 10,848 6 1,169 —	MTC \$ 7, \$	OB 014 \$ — \$	OSF 3,314 1,622 — 235	\$	19,682 4,645 1,768	
VIE assets (UPB) Maximum exposure to lo Debt and equity interests Derivative and other contracts Commitments, guarantees and other	\$ pss¹ \$	71,287 \$ 8,234 \$ — 397 8,631 \$	CDO 6 10,848 6 1,169 - 3 6 1,172 -Assets	MTC \$ 7, \$ 4,	DB 014 \$ — \$ 449	OSF 3,314 1,622 — 235 1,857	\$	19,682 4,645 1,768 327	
VIE assets (UPB) Maximum exposure to lo Debt and equity interests Derivative and other contracts Commitments, guarantees and other Total Carrying value of exposi	\$ pss¹ \$	71,287 \$ 8,234 \$ — 397 8,631 \$ to loss—	CDO 6 10,848 6 1,169 - 3 6 1,172 -Assets	MTC \$ 7, \$ 4,	OB 014 \$ \$ 449 	OSF 3,314 1,622 — 235 1,857	\$	19,682 4,645 1,768 327 6,740	
VIE assets (UPB) Maximum exposure to lo Debt and equity interests Derivative and other contracts Commitments, guarantees and other Total Carrying value of expos Debt and equity interests Derivative and other	\$ pss¹ \$	71,287 \$ 8,234 \$ — 397 8,631 \$ to loss—	CDO 5 10,848 6 1,169 - 3 5 1,172	MTC \$ 7, \$ 4, \$ 4,	DB 014 \$ 449 449 \$ 449 \$	OSF \$ 3,314 \$ 1,622 	\$	19,682 4,645 1,768 327 6,740 4,645	
VIE assets (UPB) Maximum exposure to lo Debt and equity interests Derivative and other contracts Commitments, guarantees and other Total Carrying value of expos Debt and equity interests Derivative and other contracts	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,287 \$ 8,234 \$ — 397 8,631 \$ to loss— 8,234 \$	CDO 5 10,848 6 1,169 - 3 5 1,172	MTC \$ 7, \$ 4, \$ 4,	— \$ 4449 \$ 6	OSF \$ 3,314 \$ 1,622 	\$	19,682 4,645 1,768 327 6,740 4,645	
VIE assets (UPB) Maximum exposure to lo Debt and equity interests Derivative and other contracts Commitments, guarantees and other Total Carrying value of expos Debt and equity interests Derivative and other contracts Total	\$ pss ¹ \$ \$ \$ ure 1 \$ sed ²	71,287 \$ 8,234 \$ — 397 8,631 \$ to loss 8,234 \$ — 8,234 \$	CDO 5 10,848 6 1,169	MTC \$ 7, \$ 4, \$ 4, \$ \$	— \$ 4449 \$ 6	OSF \$ 3,314 \$ 1,622 	\$	19,682 4,645 1,768 327 6,740 4,645 87 4,732	

MTOB—Municipal tender option bonds

- 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.

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

	At March	31	, 2019		At Decembe	1, 2018	
\$ in millions	UPB		Debt and Equity nterests	UPB	_	ebt and Equity nterests	
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
Total	\$ 75,970	\$	8,080	\$	71,287	\$	8,234

Transfers of Assets with Continuing Involvement

	At March 31, 2019								
\$ in millions		RML	CML	U.S	S. Agency CMO	(CLN and Other¹		
SPE assets (UPB) ²	\$	13,937 \$	73,268	\$	22,907	\$	15,068		
Retained interests Investment grade	\$	17 \$	525	\$	349	\$	2		
Non-investment grade		4	166		_		90		
Total	\$	21 \$	691	\$	349	\$	92		
Interests purchased in the se Investment grade	con \$	dary marl 9 \$			e) 246	\$	_		
Non-investment grade		14	100		_		_		
Total	\$	23 \$	172	\$	246	\$	_		
Derivative assets (fair value)	\$	— \$	· —	\$	_	\$	129		
Derivative liabilities (fair value)		_	_		_		106		

At December 31, 2018								
\$ in millions		RML		CML	U.	S. Agency CMO		LN and Other ¹
SPE assets (UPB) ²	\$	14,376	\$	68,593	\$	16,594	\$	14,608
Retained interests Investment grade	\$	17	\$	483	\$	1,573	\$	3
Non-investment grade (fair value)		4		212		_		210
Total	\$	21	\$	695	\$	1,573	\$	213
Interests purchased in the see	con	dary ma	rke	et (fair va	ılue	∍)		
Investment grade	\$	7	\$	91	\$	102	\$	_
Non-investment grade		28		71		_		
Total	\$	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.

	Fair Value at March 31, 2019									
\$ in millions	Le	evel 2	Le	evel 3	Total					
Retained interests Investment grade	\$	356	\$	24	\$	380				
Non-investment grade		7		94		101				
Total	\$	363	\$	118	\$	481				
Interests purchased in the second Investment grade	lary mark	cet 320	\$	7	\$	327				
Non-investment grade		101		13		114				
Total	\$	421	\$	20	\$	441				
Derivative assets	\$	47	\$	82	\$	129				
Derivative liabilities		104		2		106				

	Fair Value at December 31,2018								
\$ in millions	Level 2			evel 3	Total				
Retained interests Investment grade	\$	1,580	\$	13	\$	1,593			
Non-investment grade		174		252		426			
Total	\$	1,754	\$	265	\$	2,019			
Interests purchased in the secondar	y mar	ket							
Investment grade	\$	193	\$	7	\$	200			
Non-investment grade		83		16		99			
Total	\$	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,

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

	Three Months Ended March 31,						
\$ in millions		2019	2018				
New transactions ¹	\$	4,733	\$	6,134			
Retained interests		2,887		481			
Sales of corporate loans to CLO SPEs1, 2		_		94			

- 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

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

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

	At March 31, 2019				
\$ in millions	Required Ratio ¹		Amount	Ratio	
Risk-based capital					
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		
Leverage-based capital					
Tier 1 leverage	4.0%	\$	71,910	8.4%	
Adjusted average assets ²			855,192		
SLR	5.0%		71,910	6.5%	
Supplementary leverage exposure ³			1,104,264		

	At December 31, 2018				
\$ in millions	Required Ratio ¹			Ratio	
Risk-based capital					
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		
Leverage-based capital					
Tier 1 leverage	4.0%	\$	70,619	8.4%	
Adjusted average assets ²			843,074		
SLR	5.0%		70,619	6.5%	
Supplementary leverage exposure ³			1,092,672		

- 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' 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					
\$ in millions	Required Ratio ¹	Α	mount	Ratio		
Risk-based capital 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%		
Leverage-based capital Tier 1 leverage	5.0%	\$	16,285	11.1%		
SLR	6.0%		16,285	8.7%		

	At December 31, 2018					
\$ in millions	Required Ratio ¹	Amount		Ratio		
Risk-based capital 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%		
Leverage-based capital Tier 1 leverage	5.0%	\$	15,221	10.5%		
SLR	6.0%		15,221	8.2%		

MSPBNA's Regulatory Capital

	At March 31, 2019					
\$ in millions	Required Ratio ¹	Amount	Ratio			
Risk-based capital 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%			
Leverage-based capital Tier 1 leverage	5.0%	\$ 7,545	10.1%			
SLR	6.0%	7,545	9.7%			

	At December 31, 2018			
\$ in millions	Required Ratio ¹	A	Amount	Ratio
Risk-based capital 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%
Leverage-based capital Tier 1 leverage	5.0%	\$	7,183	10.0%
SLR	6.0%		7,183	9.6%

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

U.S. Broker-Dealer Regulatory Capital Requirements

MS&Co. Regulatory Capital

\$ in millions	At March 31, 2019		At Decem	ber 31, 2018
Net capital	\$	13,925	\$	13,797
Excess net capital		11,403		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

\$ in millions	At March 31, 2019		At Decem	nber 31, 2018
Net capital	\$	3,041	\$	3,455
Excess net capital		2,901		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 Tokyobased 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

	Three Months Ended March 31,				
\$ in millions		2019		2018	
Repurchases of common stock under our					
Share Repurchase Program	\$	1,180	\$	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

	Shares Outstanding				Carry	ing	Value
\$ in millions, except per share data	At Liquidation March 31, Preference per Share				At December 31 2018		
Series A	44,000	\$	25,000	\$	1,100	\$	1,100
C ¹	519,882		1,000		408		408
E	34,500		25,000		862		862
F	34,000		25,000		850		850
G	20,000		25,000		500		500
Н	52,000		25,000		1,300		1,300
I	40,000		25,000		1,000		1,000
J	60,000		25,000		1,500		1,500
K	40,000		25,000		1,000		1,000
Total				\$	8,520	\$	8,520
			_				

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).

Preferred Stock Dividends

	Three Months Ended March 31, 2019					Three Months Ended March 31, 2018			
\$ in millions, except per share data	Per Share ¹		Total		Per Share ¹		Total		
Series A	\$	250	\$	11	\$	250	\$	11	
С		25		13		25		13	
E		445		15		445		15	
F		430		15		430		15	
G		414		8		414		8	
		398		16		398		16	
K		366		15		366		15	
Total			\$	93			\$	93	

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)1

\$ in millions	Cui	reign rrency islation stments	S	AFS ecurities	Post	ension, retirement nd Other	DVA		Total
December 31, 2018	\$	(889)	\$	(930)	\$	(578)	\$ 105	\$	(2,292)
OCI during the period		(12)		429		1	(599)		(181)
March 31, 2019	\$	(901)	\$	(501)	\$	(577)	\$ (494)	\$	(2,473)
December 31, 2017	\$	(767)	\$	(547)	\$	(591)	\$ (1,155)	\$	(3,060)
Cumulative adjustmen for accounting changes ²	t	(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

Three Months Ended March 31, 2019¹

		Pre-tax Gain	Ta	Income x Benefit		After-tax Gain		Non- ontrolling	
\$ in millions		(Loss)	(F	rovision)		(Loss)	Interests		Net
Foreign currency trans	slat	ion adjust	me	ents					
OCI activity	\$	(4)	\$	(18)	\$	(22)	\$	(10)	\$ (12)
Reclassified to earnings		_		_		_		_	
Net OCI	\$	(4)	\$	(18)	\$	(22)	\$	(10)	\$ (12)
Change in net unrealiz	ed	gains (los	se	s) on AF	Ss	securities			
OCI activity	\$	570	\$	(133)	\$	437	\$	_	\$ 437
Reclassified to earnings		(10)		2		(8)		_	(8)
Net OCI	\$	560	\$	(131)	\$	429	\$	_	\$ 429
Pension, postretireme	nt a	and other							
OCI activity	\$	_	\$	(1)	\$	(1)	\$	_	\$ (1)
Reclassified to earnings		3		(1)		2		_	2
Net OCI	\$	3	\$	(2)	\$	1	\$	_	\$ 1
Change in net DVA									
OCI activity	\$	(824)	\$	201	\$	(623)	\$	(21)	\$ (602)
Reclassified to earnings		4		(1)		3		_	3
Net OCI	\$	(820)	\$	200	\$	(620)	\$	(21)	\$ (599)

Three Months Ended March 31, 2018¹

\$ in millions		re-tax Gain Loss)	Ta	ncome x Benefit rovision)	,	After-tax Gain (Loss)	Non- controlling Interests		Net
Foreign currency	/ translati	ion adju	stm	ents					
OCI activity	\$	78	\$	39	\$	117	\$	57	\$ 60
Reclassified to ea	rnings	_		_		_		_	_
Net OCI	\$	78	\$	39	\$	117	\$	57	\$ 60
Change in net un	realized	gains (Ic	sse	s) on AF	S s	ecurities			
OCI activity	\$	(535)	\$	125	\$	(410)	\$	_	\$ (410)
Reclassified to ea	rnings	_		_		_			
Reclassified to ea	rnings \$	(535)	\$	125	\$	(410)	\$		\$ (410)
	\$			125	\$	(410)	\$		\$ (410)
Net OCI	\$			125 —	\$	(410)	\$		\$ (410) —
Net OCI Pension, postret	\$ irement a		r			— (410) — 5			(410) — 5
Net OCI Pension, postret OCI activity	\$ irement a	nd othe	r	_	\$	_			_
Net OCI Pension, postret OCI activity Reclassified to ea	\$ irement a \$ rnings	nd other	r \$	— (1)	\$		\$		\$
Net OCI Pension, postret OCI activity Reclassified to ea Net OCI	\$ irement a \$ rnings	nd other	r \$	— (1)	\$		\$		\$
Net OCI Pension, postret OCI activity Reclassified to ea Net OCI Change in net DN	sirement a \$ rnings \$	nd other 6	r \$ \$	— (1) (1)	\$	5 5	\$		\$ 5 5

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

\$ in millions	Three Months Ended March 31, 2019				
Leases	\$	63			
\$ in millions	Three Mor March 3	=			
Revenues from contracts with customers ¹		(32)			
Derivatives and hedging—targeted improvements to accounting for hedging activities ¹		(99)			
Reclassification of certain tax effects from AOCI ¹	\$	443			
Other ²		(6)			
Total	\$	306			

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

15. Earnings per Common Share

	Three Months Ended March 31,							
in millions, except for per share data	2	019	2018					
Earnings applicable to Morgan Stanley common shareholders		2,336	\$	2,575				
Basic EPS								
Weighted average common shares outstanding		1,658		1,740				
Earnings per basic common share	\$	1.41	\$	1.48				
Diluted EPS Weighted average common shares outstanding		1,658		1,740				
Effect of dilutive RSUs and PSUs		19		31				
Weighted average common shares outstanding and common stock equivalents		1,677		1,771				
Earnings per diluted common share	\$	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,							
\$ in millions	2	2019	2018						
Interest income									
Investment securities	\$	475	\$	424					
Loans		1,195		938					
Securities purchased under agreements to resell and Securities borrowed ¹		947		215					
Trading assets, net of Trading liabilities		713		540					
Customer receivables and Other ²		960		743					
Total interest income	\$	4,290	\$	2,860					
Interest expense									
Deposits	\$	462	\$	159					
Borrowings		1,380		1,138					
Securities sold under agreements to repurchase and Securities loaned ³		600		402					
Customer payables and Other ⁴		834		186					
Total interest expense	\$	3,276	\$	1,885					
Net interest	\$	1,014	\$	975					

- 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.
- 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.

Notes to Consolidated Financial Statements (Unaudited)

18. Segment, Geographic and Revenue Information

Segment Information

Selected Financial Information by Business Segment

	Three	M	onths	En	ded Ma	arch 31, 2	2019
\$ in millions	IS		WM		IM	I/E	Total
Investment banking ^{1, 2}	\$ 1,151	\$	109	\$	_	\$ (18) \$	1,242
Trading	3,130		302		(3)	12	3,441
Investments	81		1		191	_	273
Commissions and fees ¹	621		406		_	(61)	966
Asset management ¹	107		2,361		617	(36)	3,049
Other	222		80		3	(4)	301
Total non-interest revenues ^{3, 4}	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
Net revenues	\$ 5,196	\$	4,389	\$	804	\$ (103) \$	10,286
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
Net income applicable to							

		Three Months Ended March 31, 2018							18	
\$ in millions		IS		WM		IM		I/E		Total
Investment banking ^{1, 2}	\$	1,513	\$	140	\$	_	\$	(19)	\$	1,634
Trading		3,643		109		5		13		3,770
Investments		49		_		77		_		126
Commissions and fees ¹		744		498		_		(69)		1,173
Asset management ¹		110		2,495		626		(39)		3,192
Other		136		63		10		(2)		207
Total non-interest revenues ^{3, 4}		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
Net revenues	\$	6,100	\$	4,374	\$	718	\$	(115)	\$	11,077
Income from continuing operations before income taxes	\$	2 112	\$	1,160	\$	148	\$	_	\$	3,420
Provision for income taxes	Ψ	449	Ψ	246	Ψ	19	Ψ		Ψ	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
Net income applicable to Morgan Stanley	\$	1,627	\$	914	\$	127	\$	_	\$	2,668

I/E-Intersegment Eliminations

- 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.
- 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.

Notes to Consolidated Financial Statements (Unaudited)

Total Assets by Business Segment

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

1. Parent assets have been fully allocated to the business segments.

Additional Segment Information—Investment Management

Net Unrealized Carried Interest

	At		At	
	March 31,	De	cember 3	1,
\$ in millions	2019		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

	Thi	ree Month	s Ended M	larch 31,
\$ in millions		2019		
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

	Three Months Ended March 31,						
\$ in millions		2019	2018				
Americas	\$	7,321	\$	8,018			
EMEA		1,702		1,708			
Asia		1,263		1,351			
Total	\$	10,286	\$	11,077			

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

	Three Months Ended March							
\$ in millions	20	2019						
Interest rate	\$	785	\$	871				
Foreign exchange		241		261				
Equity security and index1		1,451		1,877				
Commodity and other		422		435				
Credit		542		326				
Total	\$	3,441	\$	3,770				

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

\$ in millions	At arch 31, 2019	De	At cember 31, 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.

Financial Data Supplement (Unaudited)

Average Balances and Interest Rates and Net Interest Income

	Three Months Ended March 31,									
		2019							2018	
					Annualized		Average			Annualized
		verage			Average		Daily			Average
\$ in millions	Daily	/ Balance	Ir	terest	Rate		Balance	lr	nterest	Rate
Interest earning assets										
Investment securities ¹	\$	94,906	\$	475	2.0 %	\$	80,532	\$	424	2.1 %
Loans ¹		116,698		1,195	4.2		104,407		938	3.6
Securities purchased under agreements to resell and Securities borrowed ² :										
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 liabilities3:										
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 Other4:										
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
Total	\$	635,470	\$	4,290	2.7 %	\$	579,437	\$	2,860	2.0 %
Interest bearing liabilities										
Deposits ¹	\$	181,017	\$	462	1.0 %	\$	159,948	\$	159	0.4 %
Borrowings ^{1, 5}		189,181		1,380	3.0		194,558		1,138	2.4
Securities sold under agreements to repurchase and Securities loaned ⁶ :										
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 ⁷ :										
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
Total	\$	612,593	\$	3,276	2.2 %	\$	611,274	\$	1,885	1.3 %
Net interest income and net interest rate spread			\$	1,014	0.5 %			\$	975	0.7 %

^{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.

Glossary of Common Acronyms

2018 Form 10-K	Annual Report on Form 10-K for year	ELN	Equity-linked note(s)
	ended December 31, 2018 filed with the SEC	EMEA	Europe, Middle East and Africa
ABS	Asset-backed securities	EPS	Earnings per common share
AFS	Available-for-sale	E.U.	European Union
AML	Anti-money laundering	FDIC	Federal Deposit Insurance Corporation
AOCI	Accumulated other comprehensive income (loss)	FFELP	Federal Family Education Loan Program
AUM	Assets under management or supervision	FFIEC	Federal Financial Institutions Examination Council
BEAT	Base erosion and anti-abuse tax	FHC	Financial Holding Company
ВНС	Bank holding company	FICO	Fair Isaac Corporation
bps	Basis points; one basis point equals	FVA	Funding valuation adjustment
	1/100th of 1%	GILTI	Global Intangible Low-Taxed Income
CCAR	Comprehensive Capital Analysis and Review	GLR	Global liquidity reserve
ССуВ	Countercyclical capital buffer	G-SIB	Global systemically important banks
CDO	Collateralized debt obligation(s),	HELOC	Home Equity Line of Credit
	including Collateralized loan obligation(s)	HQLA	High-quality liquid assets
CDS	Credit default swaps	HTM	Held-to-maturity
CECL	Current expected credit loss	I/E	Intersegment eliminations
CFTC	U.S. Commodity Futures Trading	IHC	Intermediate holding company
	Commission	IM	Investment Management
CLN	Credit-linked note(s)	IRS	Internal Revenue Service
CLO	Collateralized loan obligation(s)	IS	Institutional Securities
CMBS	Commercial mortgage-backed securities	LCR	Liquidity coverage ratio, as adopted by the U.S. banking agencies
СМО	Collateralized mortgage obligation(s)	LIBOR	London Interbank Offered Rate
CVA	Credit valuation adjustment	M&A	Merger, acquisition and restructuring
DVA	Debt valuation adjustment		transaction
EBITDA	Earnings before interest, taxes, depreciation and amortization	MSBNA	Morgan Stanley Bank, N.A.

Glossary of Common Acronyms

MS&Co.	Morgan Stanley & Co. LLC	ROTCE	Return on average tangible common
MSIP	Morgan Stanley & Co. International plc	ROU	equity Right-of-use
MSMS	Morgan Stanley MUFG Securities Co., Ltd.	RSU	Restricted stock unit
MSPBNA	Morgan Stanley Private Bank, National Association	RWA	Risk-weighted assets
MSSB LLC	Morgan Stanley Smith Barney LLC	SEC	U.S. Securities and Exchange Commission
MUFG	Mitsubishi UFJ Financial Group, Inc.	SLR	Supplementary leverage ratio
MUMSS	Mitsubishi UFJ Morgan Stanley	S&P	Standard & Poor's
MXX/I.	Securities Co., Ltd.	SPE	Special purpose entity
MWh	Megawatt hour	SPOE	Single point of entry
N/A	Not Applicable	TDR	Troubled debt restructuring
NAV	Net asset value	TLAC	Total loss-absorbing capacity
N/M	Not Meaningful	U.K.	United Kingdom
Non-GAAP	Non-generally accepted accounting principles	UPB	Unpaid principal balance
NSFR	Net stable funding ratio, as proposed by	U.S.	United States of America
	the U.S. banking agencies	U.S. DOL	U.S. Department of Labor
OCC	Office of the Comptroller of the Currency	U.S. GAAP	Accounting principles generally accepted in the United States of
OCI	Other comprehensive income (loss)		America
OIS	Overnight index swap	VaR	Value-at-Risk
OTC	Over-the-counter	VAT	Value-added tax
PRA	Prudential Regulation Authority	VIE	Variable interest entity
PSU	Performance-based stock unit	WACC	Implied weighted average cost of capital
RMBS	Residential mortgage-backed securities	WM	Wealth Management
ROE	Return on average common equity	· / 174	catti managoment

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 Societá 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.

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

\$ in millions, except per share data	Total Number of Shares Purchased	verage Price aid Per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs ¹	Dol Sha Yet b Unde	pproximate lar Value of res that May be Purchased r the Plans or Programs
Month #1 (January 1, 2019—January 31, 2019) Share Repurchase Program ²	4,408,695	\$ 42.54	4,408,695	\$	2,172
Employee transactions ³	10,089,356	\$ 42.52	_		_
Month #2 (February 1, 2019—February 28, 2019) Share Repurchase Program ²	8,886,000	\$ 41.83	8,886,000	\$	1,801
Employee transactions ³	709,539	\$ 42.18	_		_
Month #3 (March 1, 2019—March 31, 2019) Share Repurchase Program ²	14,672,111	\$ 42.31	14,672,111	\$	1,180
Employee transactions ³	156,953	\$ 42.01	_		_
Quarter ended at March 31, 2019 Share Repurchase Program ²	27,966,806	\$ 42.19	27,966,806	\$	1,180
Employee transactions ³	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.

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.

Exhibit Index Morgan Stanley Quarter Ended March 31, 2019

Exhibit No.	Description
15	Letter of awareness from Deloitte & Touche LLP, dated May 3, 2019, concerning unaudited interim financial information.
23	Consent of Shearman & Sterling LLP, as Special Tax Counsel for Certain Structured Product Issuances.
31.1	Rule 13a-14(a) Certification of Chief Executive Officer.
31.2	Rule 13a-14(a) Certification of Chief Financial Officer.
32.1	Section 1350 Certification of Chief Executive Officer.
32.2	Section 1350 Certification of Chief Financial Officer.
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.

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

To the Board of Directors and Shareholders of Morgan Stanley:

We have reviewed, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the unaudited condensed consolidated interim financial statements of Morgan Stanley and subsidiaries (the "Firm") for the three-month periods ended March 31, 2019 and 2018, as indicated in our report dated May 3, 2019; because we did not perform an audit, we expressed no opinion on that information.

We are aware that our report referred to above, which is included in your Quarterly Report on Form 10-Q for the quarter ended March 31, 2019, is incorporated by reference in the following Registration Statements of the Firm:

Filed on Form S-3:	Filed on Form S-8:
Registration Statement No. 33-57202	Registration Statement No. 33-63024
Registration Statement No. 33-60734	Registration Statement No. 33-63026
Registration Statement No. 33-89748	Registration Statement No. 33-78038
Registration Statement No. 33-92172	Registration Statement No. 33-79516
Registration Statement No. 333-07947	Registration Statement No. 33-82240
Registration Statement No. 333-27881	Registration Statement No. 33-82242
Registration Statement No. 333-27893	Registration Statement No. 33-82244
Registration Statement No. 333-27919	Registration Statement No. 333-04212
Registration Statement No. 333-46403	Registration Statement No. 333-28141
Registration Statement No. 333-46935	Registration Statement No. 333-28263
Registration Statement No. 333-76111	Registration Statement No. 333-62869
Registration Statement No. 333-75289	Registration Statement No. 333-78081
Registration Statement No. 333-34392	Registration Statement No. 333-95303
Registration Statement No. 333-47576	Registration Statement No. 333-55972
Registration Statement No. 333-83616	Registration Statement No. 333-85148
Registration Statement No. 333-106789	Registration Statement No. 333-85150
Registration Statement No. 333-117752	Registration Statement No. 333-108223
Registration Statement No. 333-129243	Registration Statement No. 333-142874
Registration Statement No. 333-131266	Registration Statement No. 333-146954
Registration Statement No. 333-155622	Registration Statement No. 333-159503
Registration Statement No. 333-156423	Registration Statement No. 333-159504
Registration Statement No. 333-178081	Registration Statement No. 333-159505
Registration Statement No. 333-200365	Registration Statement No. 333-168278
Registration Statement No. 333-200365-12	Registration Statement No. 333-172634
Registration Statement No. 333-221595	Registration Statement No. 333-177454
Registration Statement No. 333-221595-01	Registration Statement No. 333-183595
	Registration Statement No. 333-188649
Filed on Form S-4:	Registration Statement No. 333-192448
Registration Statement No. 333-25003	Registration Statement No. 333-204504
	Registration Statement No. 333-211723
	Registration Statement No. 333-218377

We also are aware that the aforementioned report, pursuant to Rule 436(c) under the Securities Act of 1933, is not considered a part of the Registration Statements prepared or certified by an accountant or a report prepared or certified by an accountant within the meaning of Sections 7 and 11 of that Act.

SHEARMAN & STERLING LLP

599 Lexington Avenue New York, NY 10022-6069 +1.212.848.4000

May 3, 2019

Morgan Stanley

– and –

Morgan Stanley Finance LLC
1585 Broadway
New York, NY 10036

Morgan Stanley Morgan Stanley Finance LLC Registration Statement on Form S-3 (Registration Statement No. 333-221595)

Ladies and Gentlemen:

We have acted as tax counsel to Morgan Stanley (the "Company") and Morgan Stanley Finance LLC ("MSFL") in connection with the issuance from time to time of (i) the Company's debt securities, units, warrants, purchase contracts, preferred stock and common stock and (ii) MSFL's debt securities, units, warrants and purchase contracts (collectively, the "Program Securities") pursuant to a shelf registration statement on Form S-3 (Registration Statement No. 333-221595, the "Registration Statement") filed with the Securities and Exchange Commission (the "SEC") on November 16, 2017. We did not advise the Company or MSFL in connection with the preparation and filing of the Registration Statement, including the preparation and filing of a form of prospectus, dated November 16, 2017 (the "Prospectus"), for the purpose of registering the issuance of Program Securities under the Securities Act of 1933, as amended (the "Securities Act").

We hereby consent to references to Shearman & Sterling LLP, solely in our capacity as tax counsel to the Company and MSFL, or any opinion of ours delivered in that capacity, in a pricing supplement or prospectus supplement forming part of the Prospectus prepared and filed by the Company or MSFL with the SEC relating to the offer and sale of any Program Securities. The issuance of such consent does not concede that we are "Experts" for purposes of the Securities Act.

Very truly yours,

/s/ Shearman & Sterling LLP

Certification

I, James P. Gorman, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Morgan Stanley;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 3, 2019

/s/JAMES P. GORMAN

James P. Gorman

Chairman of the Board and Chief Executive Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Morgan Stanley (the "Firm") on Form 10-Q for the quarter ended March 31, 2019 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, James P. Gorman, Chairman of the Board and Chief Executive Officer of the Firm, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- 1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- 2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Firm.

/s/ JAMES P. GORMAN

James P. Gorman Chairman of the Board and Chief Executive Officer

Dated: May 3, 2019

Certification

I, Jonathan Pruzan, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Morgan Stanley;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 3, 2019

/s/ JONATHAN PRUZAN

Jonathan Pruzan

Executive Vice President and Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Morgan Stanley (the "Firm") on Form 10-Q for the quarter ended March 31, 2019 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Jonathan Pruzan, Executive Vice President and Chief Financial Officer of the Firm, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- 1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- 2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Firm.

/s/ JONATHAN PRUZAN

Jonathan Pruzan Executive Vice President and Chief Financial Officer

Dated: May 3, 2019