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 June 30, 2018

Delaware

(State or other jurisdiction of

Commission file number 1-5805

13-2624428

(I.R.S. employer

☐ Yes 区 No

JPMorgan Chase & Co. (Exact name of registrant as specified in its charter)

incorporation or organization)		identification no.)		
270 Park Avenue, New York, New York		10017		
(Address of principal executive offices)		(Zip Code)		
Registrant's telephone number, including	area code:	(212) 270-6000		
Indicate by check mark whether the registrant (1) has filed all repo Securities Exchange Act of 1934 during the preceding 12 months (or to file such reports), and (2) has been subject to such filing requirem	for such sh	orter period that the registrar		
		X	/es	□ No
Indicate by check mark whether the registrant has submitted electror Interactive Data File required to be submitted and posted pursuant to during the preceding 12 months (or for such shorter period that the	Rule 405	of Regulation S-T (§232.405 of	of this	chapter)
		X	/es	□ No
Indicate by check mark whether the registrant is a large accelerated smaller reporting company, or an emerging growth company. See the filer," "smaller reporting company," and "emerging growth company	e definition	s of "large accelerated filer,"		
Large accelerated filer	X	Accelerated filer		l
Non-accelerated filer (Do not check if a smaller reporting company)		Smaller reporting company		l
		Emerging growth company]
If an emerging growth company, indicate by check mark if the extended transition period for complying with any new or reprovided pursuant to Section 13(a) of the Exchange Act. \Box	e registrar vised finan	t has elected not to use the cial accounting standards		
Indicate by check mark whether the registrant is a shell company (as	defined in	Rule 12b-2 of the Exchange	Act).	

Number of shares of common stock outstanding as of June 30, 2018: 3,360,884,107

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JPMorgan Chase & Co. **Consolidated financial highlights**

(unaudited) As of or for the period ended, (in millions, except per share,													ix months e	iaec	June 30,
ratio, headcount data and where otherwise noted)		2Q18		1Q18		4Q17		3Q17		2Q17			2018		2017
Selected income statement data															
Total net revenue	\$	27,753	\$		\$	24,457	\$	25,578		\$ 25,731		\$	55,660	\$	50,670
Total noninterest expense		15,971		16,080		14,895		14,570		14,767			32,051		30,050
Pre-provision profit		11,782		11,827		9,562		11,008		10,964			23,609		20,620
Provision for credit losses		1,210		1,165		1,308		1,452		1,215		_	2,375		2,530
Income before income tax expense		10,572		10,662		8,254		9,556		9,749			21,234		18,090
Income tax expense		2,256	_	1,950		4,022	-	2,824		2,720		_	4,206	_	4,613
Net income	\$	8,316	\$	8,712	\$	4,232	\$	6,732	-	\$ 7,029		\$	17,028	\$	13,477
Earnings per share data	_		_		_		_					_		_	
Net income: Basic Diluted	\$	2.31 2.29	\$		\$	1.08	\$	1.77		\$ 1.83 1.82		\$	4.69	\$	3.49 3.47
Average shares: Basic		3,415.2		2.37 3,458.3		1.07 3,489.7		1.76 3,534.7		3,574.1			4.66 3,436.7		3,587.9
Diluted		3,434.7		3,479.5		3,512.2		3,559.6		3,599.0			3,457.1		3,614.7
Market and per common share data		3,434.7		3, 17 7.3		3,312.2		3,337.0		3,377.0			3,437.1		3,01 1.7
Market capitalization		350,204		374,423		366,301		331,393		321,633			350,204		321,633
Common shares at period-end		3,360.9		3,404.8		3,425.3		3,469.7		3,519.0			3,360.9		3,519.0
Share price: ^(a)		,				,									
High	\$	115.15	\$	119.33	\$	108.46	\$	95.88		\$ 92.65		\$	119.33	\$	93.98
Low	•	103.11		103.98	•	94.96		88.08		81.64		-	103.11		81.64
Close		104.20		109.97		106.94		95.51		91.40			104.20		91.40
Book value per share		68.85		67.59		67.04		66.95		66.05			68.85		66.05
Tangible book value per share ("TBVPS") ^(b)		55.14		54.05		53.56		54.03		53.29			55.14		53.29
Cash dividends declared per share		0.56		0.56		0.56		0.56		0.50			1.12		1.00
Selected ratios and metrics															
Return on common equity ("ROE") (C)		14%	ó	15%	ò	7%)	11%		12%			14%		11%
Return on tangible common equity ("ROTCE")(b)(c)		17		19		8		13		14			18		14
Return on assets ^(c)		1.28		1.37		0.66		1.04		1.10			1.32		1.07
Overhead ratio		58		58		61		57		57			58		59
Loans-to-deposits ratio		65		63		64		63		63			65		63
Liquidity coverage ratio ("LCR") (average)(d)		115		115		119		120		115			115		115
Common equity Tier 1 ("CET1") capital ratio(e)		12.0		11.8		12.2		12.5		12.5	(h)		12.0		12.5
Tier 1 capital ratio ^(e)		13.6		13.5		13.9		14.1	1)	14.2	(h)		13.6		14.2
Total capital ratio ^(e)		15.5		15.3		15.9		16.1		16.0			15.5		16.0
Tier 1 leverage ratio ^(e)		8.2		8.2		8.3		8.4		8.5			8.2		8.5
Supplementary leverage ratio ("SLR") ^(f)		6.5		6.5		6.5		6.6		6.7			6.5		6.7
Selected balance sheet data (period-end)	_		_		_		_					_		_	
Trading assets	\$	418,799	\$,	\$	381,844	\$	420,418		\$ 407,064		\$	418,799	\$	407,064
Investment securities		233,015		238,188		249,958		263,288		263,458			233,015		263,458
Loans		948,414		934,424		930,697		913,761		908,767			948,414		908,767
Core loans		889,433		870,536		863,683		843,432		834,935			889,433		834,935
Average core loans		877,640		861,089		850,166		837,522		824,583		_	869,410	_	815,034
Total assets		2,590,050		2,609,785		2,533,600		2,563,074		2,563,174			2,590,050		2,563,174
Deposits		1,452,122		1,486,961		1,443,982		1,439,027		1,439,473		1	,452,122	J	1,439,473
Long-term debt Common stockholders' equity		273,114		274,449		284,080		288,582		292,973 232,415			273,114		292,973
		231,390		230,133		229,625		232,314		232,415 258,483			231,390 257,458		232,415
Total stockholders' equity Headcount		257,458 252,942		256,201 253,707		255,693 252,539		258,382 251,503		258,483 249,257			257,458 252,942		258,483
Credit quality metrics		232,942		200,707		232,339		231,303		247,237			232,942		249,257
Allowance for credit losses	\$	14,367	\$	14,482	¢	14,672	¢	14,648		\$ 14,480		¢	14,367	\$	14,480
Allowance for loan losses to total retained loans	₽	14,367		14,482		14,672		1.49%		1.49%		\$	1.41%		1.49%
Allowance for loan losses to total retained loans Allowance for loan losses to retained loans excluding		1.41%	U	1.44%	J	1.4/%	,	1.4970		1.49%			1.41%		1.49%
purchased credit-impaired loans(g)		1.22		1.25		1.27		1.29		1.28			1.22		1.28
Nonperforming assets	\$	5,767	\$	6,364	\$	6,426	\$	6,154		\$ 6,432		\$	5,767	\$	6,432
Net charge-offs	7	1,252	7	1,335	7	1,264	7	1,265		1,204		•	2,587	*	2,858
Net charge-off rate		0.54%	'n	0.59%	,)	0.55%	,	0.56%		0.54%			0.56%		0.65%

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

⁽a) Based on daily prices reported by the New York Stock Exchange.
(b) TBVPS and ROTCE are non-GAAP financial measures. For a further discussion of these measures, refer to Explanation and Reconciliation of the Firm's Use of Non-GAAP Financial Measures and Key Performance Measures on pages 15-17.

Performance Measures on pages 15-17.
(c) Quarterly ratios are based upon annualized amounts.
(d) For the six months ended June 30, 2017, the balance represents the Firm's reported average LCR per the U.S. LCR public disclosure requirements effective April 1, 2017.
(e) Ratios presented are calculated under the Basel III Transitional capital rules and for the capital ratios represent the lower of the Standardized or Advanced approach as required by the Collins Amendment of the Dodd-Frank Act (the "Collins Floor"). Refer to Capital Risk Management on pages 43-47 for additional information on Basel III and the Collins Floor.
(f) Effective January 1, 2018, the SLR was fully phased-in under Basel III. The SLR is defined as Tier 1 capital divided by the Firm's total leverage exposure. Ratios prior to March 31, 2018 were calculated under the Basel III Transitional rules.

(g) Excluded the impact of residential real estate purchased credit-impaired ("PCI") loans, a non-GAAP financial measure. For a further discussion of these measures, refer to Explanation and

Reconciliation of the Firm's Use of Non-GAAP Financial Measures and Key Performance Measures on pages 15-17. For a further discussion, refer to Allowance for credit losses on pages 67-69. (h) The prior period ratios have been revised to conform with the current period presentation.

⁽i) Excluding net charge-offs of \$467 million related to the student loan portfolio sale, the net charge-off rates for the six months ended June 30, 2017 would have been 0.54%.

INTRODUCTION

The following is management's discussion and analysis ("MD&A") of the financial condition and results of operations of JPMorgan Chase & Co. ("JPMorgan Chase" or the "Firm") for the second guarter of 2018.

This Form 10-Q should be read together with JPMorgan Chase's Annual Report on Form 10-K for the year ended December 31, 2017 ("2017 Annual Report" or "2017 Form 10-K"), to which reference is hereby made, and which is referred to throughout this document. Refer to the Glossary of terms and acronyms and line of business metrics on pages 172-179 for definitions of terms and acronyms used throughout this Form 10-Q.

The MD&A included in this Form 10-Q contains statements that are forward-looking within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are based on the current beliefs and expectations of JPMorgan Chase's management and are subject to significant risks and uncertainties. Actual results may differ from those set forth in the forward-looking statements. For a further discussion of certain of those risks and uncertainties and the factors that could cause JPMorgan Chase's actual results to differ materially because of those risks and uncertainties, refer to Forward-looking Statements on page 83 of this Form 10-Q and Part I, Item 1A, Risk Factors, on pages 8-26 of JPMorgan Chase's 2017 Annual Report.

JPMorgan Chase & Co., a financial holding company incorporated under Delaware law in 1968, is a leading global financial services firm and one of the largest banking institutions in the United States of America ("U.S."), with operations worldwide; the Firm had \$2.6 trillion in assets and \$257.5 billion in stockholders' equity as of June 30, 2018. The Firm is a leader in investment banking, financial

services for consumers and small businesses, commercial banking, financial transaction processing and asset management. Under the J.P. Morgan and Chase brands, the Firm serves millions of customers in the U.S. and many of the world's most prominent corporate, institutional and government clients.

JPMorgan Chase's principal bank subsidiaries are JPMorgan Chase Bank, National Association ("JPMorgan Chase Bank, N.A."), a national banking association with U.S. branches in 23 states, and Chase Bank USA, National Association ("Chase Bank USA, N.A."), a national banking association that is the Firm's principal credit card-issuing bank. JPMorgan Chase's principal nonbank subsidiary is J.P. Morgan Securities LLC ("J.P. Morgan Securities"), a U.S. broker-dealer. The bank and non-bank subsidiaries of JPMorgan Chase operate nationally as well as through overseas branches and subsidiaries, and representative offices. The Firm's principal operating subsidiary in the United Kingdom ("U.K.") is J.P. Morgan Securities plc, a subsidiary of JPMorgan Chase Bank, N.A.

For management reporting purposes, the Firm's activities are organized into four major reportable business segments, as well as a Corporate segment. The Firm's consumer business segment is the Consumer & Community Banking ("CCB"). The Firm's wholesale business segments are Corporate & Investment Bank ("CIB"), Commercial Banking ("CB"), and Asset & Wealth Management ("AWM"). For a description of the Firm's business segments and the products and services they provide to their respective client bases, refer to Note 31 of JPMorgan Chase's 2017 Form 10-K.

EXECUTIVE OVERVIEW

This executive overview of the MD&A highlights selected information and may not contain all of the information that is important to readers of this Form 10-Q. For a complete description of the trends and uncertainties, as well as the risks and critical accounting estimates affecting the Firm and its various lines of business, this Form 10-Q and and the 2017 Form 10-K should be read in their entirety.

Effective January 1, 2018, the Firm adopted several new accounting standards, of which the most significant to the Firm are the guidance related to revenue recognition, and recognition and measurement of financial assets. The revenue recognition guidance required gross presentation of certain costs that were previously offset against revenue. This change was adopted retrospectively and, accordingly, prior period amounts were revised, resulting in both total net revenue and total noninterest expense increasing with no impact to net income. The adoption of the recognition and measurement guidance resulted in \$505 million of fair value gains, which were recorded in total net revenue in the first quarter of 2018, on certain equity investments that were previously held at cost. For additional information, refer to Note 1.

Financial performance of JPMorgan Chase

(unaudited)	Three	mon	ths ended June 3	10,	Six	month	ns ended June 30),
As of or for the period ended, (in millions, except per share data and ratios)	2018		2017	Change	2018		2017	Change
Selected income statement data								
Total net revenue	\$ 27,753	\$	25,731	8%	\$ 55,660	\$	50,670	10%
Total noninterest expense	15,971		14,767	8	32,051		30,050	7
Pre-provision profit	11,782		10,964	7	23,609		20,620	14
Provision for credit losses	1,210		1,215	_	2,375		2,530	(6)
Net income	8,316		7,029	18	17,028		13,477	26
Diluted earnings per share	\$ 2.29	\$	1.82	26	\$ 4.66	\$	3.47	34
Selected ratios and metrics								
Return on common equity	14%		12%		14%		11%	
Return on tangible common equity	17		14		18		14	
Book value per share	\$ 68.85	\$	66.05	4	\$ 68.85	\$	66.05	4
Tangible book value per share	55.14		53.29	3	55.14		53.29	3
Capital ratios ^(a)								
CET1 ^(b)	12.0%		12.5%		12.0%		12.5%	
Tier 1 capital ^(b)	13.6		14.2		13.6		14.2	
Total capital	15.5		16.0		15.5		16.0	

⁽a) Ratios presented are calculated under the Basel III Transitional capital rules and represent the Collins Floor. Refer to Capital Risk Management on pages 43-47 for additional information on Basel III.

⁽b) The prior period ratios have been revised to conform with the current period presentation.

Comparisons noted in the sections below are calculated for the second quarter of 2018 versus the second quarter of 2017, unless otherwise specified.

Firmwide overview

JPMorgan Chase reported strong results in the second quarter of 2018 with record net income of \$8.3 billion, or \$2.29 per share, on net revenue of \$27.8 billion. The Firm reported ROE of 14% and ROTCE of 17%.

- Net income increased 18%, reflecting higher net revenue and the impact of the lower U.S. federal statutory income tax rate as a result of the Tax Cuts & Jobs Acts ("TCJA"), partially offset by an increase in noninterest expense.
- Total net revenue increased 8%. Net interest income was \$13.5 billion, up 10%, predominantly driven by the impact of higher rates and loan growth, partially offset by lower Markets net interest income. Noninterest revenue was \$14.3 billion, up 6%, driven by higher Markets revenue, investment banking fees and auto lease income, partially offset by lower Card net interchange income. Card net interchange income includes a rewards liability adjustment of approximately \$330 million, driven by an increase in redemption rate assumptions, partially offset by higher card sales volumes.
- Noninterest expense was \$16.0 billion, up 8%, driven by higher performance-related compensation expense, investments in technology, auto lease depreciation, volume-related transaction costs, and a loss of \$174 million on the liquidation of a legal entity.
- The provision for credit losses was \$1.2 billion, flat compared with the prior year.
- The total allowance for credit losses was \$14.4 billion at June 30, 2018, and the Firm had a loan loss coverage ratio, excluding the PCI portfolio, of 1.22%, compared with 1.28% in the prior year. The Firm's nonperforming assets totaled \$5.8 billion at June 30, 2018, a decrease from \$6.4 billion in the prior year.
- Firmwide average core loans increased 6%, and excluding CIB, core loans increased 7%.

Selected capital-related metrics

- The Firm's Basel III Fully Phased-In CET1 capital was \$185 billion, and the Standardized and Advanced CET1 ratios were 12.0% and 12.8%, respectively.
- The Firm's fully phased-in SLR was 6.5% at June 30, 2018.
- The Firm continued to grow tangible book value per share ("TBVPS"), ending the second quarter of 2018 at \$55.14, up 3%.

ROTCE and TBVPS are each non-GAAP financial measures. Core loans and each of the Fully Phased-In capital and certain leverage measures are all considered key performance measures. For a further discussion of each of these measures, refer to Explanation and Reconciliation of the Firm's Use of Non-GAAP Financial Measures and Key Performance Measures on pages 15–17, and Capital Risk Management on pages 43–47.

Lines of business highlights

Selected business metrics for each of the Firm's four lines of business are presented below for the second quarter of 2018.



- Average core loans up 7%; average deposits up 5%
- Client investment assets of \$284 billion, up 12%
- Credit card sales volume up 11% and merchant processing volume up 12%



- #1 Global Investment Banking fees with 8.6% wallet share year-to-date
- Markets revenue up 13%, with Equity Markets revenue of \$2.0 billion, up 24%
- Treasury Services and Securities Services revenue each up 12%

CB ROE 21%

- Average loan balances up 4%
- Strong credit quality with 7 bps net charge-off rate

AWM ROE 33%

- Average loan balances up 12%
- Assets under management ("AUM") of \$2.0 trillion, up 8%

For a detailed discussion of results by line of business, refer to the Business Segment Results on pages 18-40.

Credit provided and capital raised

JPMorgan Chase continues to support consumers, businesses and communities around the globe. The Firm provided credit and raised capital of \$1.4 trillion for wholesale and consumer clients during the first six months of 2018:

- \$114 billion of credit for consumers
- \$11 billion of credit for U.S. small businesses
- \$470 billion of credit for corporations
- \$743 billion of capital raised for corporate clients and non-U.S. government entities
- \$26 billion of credit and capital raised for U.S. government and nonprofit entities, including states, municipalities, hospitals and universities.

Recent events

On June 28, 2018, the Federal Reserve informed the Firm that it did not object, on either a quantitative or qualitative basis, to the Firm's 2018 capital plan, submitted under the Comprehensive Capital Analysis and Review ("CCAR"). As a result, the Firm announced that the Board of Directors intends to increase the quarterly common stock dividend to \$0.80 per share (up from the current \$0.56 per share), effective the third quarter of 2018 and has authorized gross common equity repurchases of up to \$20.7 billion between July 1, 2018 and June 30, 2019 under a new common equity repurchase program.

2018 outlook

At this time the Firm is not updating the outlook provided in the first quarter 2018 Form 10-Q.

CONSOLIDATED RESULTS OF OPERATIONS

This section provides a comparative discussion of JPMorgan Chase's Consolidated Results of Operations on a reported basis for the three and six months ended June 30, 2018 and 2017, unless otherwise specified. Factors that relate primarily to a single business segment are discussed in more detail within that business segment. For a discussion of the Critical Accounting Estimates Used by the Firm that affect the Consolidated Results of Operations, refer to pages 77–79 of this Form 10-Q and pages 138–140 of JPMorgan Chase's 2017 Annual Report.

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

Revenue

	Three m	onths	ended Ju	ıne 30,			Six mo	onth	s ended Jun	e 30,
(in millions)	2018		2017	Chang	е		2018		2017	Change
Investment banking fees	\$ 2,168	\$	1,846	17	% !	\$ 3	,904	\$	3,726	5%
Principal transactions	3,782		3,137	21		7	,734		6,719	15
Lending- and deposit-related fees	1,495		1,482	1		2	,972		2,930	1
Asset management, administration and commissions	4,304		4,047	6		8	,613		7,924	9
Investment securities losses	(80)		(34)	(135))		(325)		(37)	NM
Mortgage fees and related income	324		404	(20))		789		810	(3)
Card income	1,020		1,167	(13))	2	,295		2,081	10
Other income ^(a)	1,255		1,474	(15))	2	,881		2,245	28
Noninterest revenue	14,268	1	3,523	6		28	,863		26,398	9
Net interest income	13,485	1	2,208	10		26	,797		24,272	10
Total net revenue	\$ 27,753	\$ 2	25,731	8	% -	\$ 55	,660	\$	50,670	10%

⁽a) Included operating lease income of \$1.1 billion and \$873 million for the three months ended June 30, 2018 and 2017, respectively, and \$2.2 billion and \$1.7 billion for the six months ended June 30, 2018 and 2017, respectively.

Quarterly results

Investment banking fees increased reflecting higher equity underwriting and advisory fees. The increase in equity underwriting fees was driven by a higher share of fees, primarily due to strong performance in the IPO and convertible markets. The increase in advisory fees was driven by a higher number of large completed transactions. For additional information, refer to CIB segment results on pages 25–30 and Note 5.

Principal transactions revenue increased reflecting higher client-driven market-making revenue in CIB as a result of strength across products in Equity Markets, predominantly in derivatives and prime brokerage. Fixed Income Markets also recorded solid performance with good client activity. For additional information, refer to CIB segment results on pages 25-30, and Note 5.

For information on lending- and deposit-related fees, refer to the segment results for CCB on pages 20-24, CIB on pages 25-30, CB on pages 31-34 and Note 5.

Asset management, administration and commissions revenue increased reflecting:

- higher asset management fees in AWM and CCB driven by net long-term product inflows and higher market levels, partially offset by fee compression in AWM
- higher brokerage commissions driven by higher volumes and higher asset-based fees in CIB driven by net client inflows and higher market levels.

For additional information, refer to AWM, CCB and CIB segment results on pages 35-38, pages 20-24 and pages 25-30, respectively, and Note 5.

Investment securities losses increased primarily due to sales related to the repositioning of the investment securities portfolio. For further information on the investment securities portfolio, refer to the Corporate segment discussion on pages 39-40 and Note 9.

Mortgage fees and related income decreased driven by lower net production revenue, reflecting lower margins, and lower servicing revenue, partially offset by higher MSR risk management results.

For further information, refer to CCB segment results on pages 20-24 and Note 14.

Card income decreased driven by:

 lower net interchange income reflecting higher rewards costs and partner payments, partially offset by higher card sales volumes. The rewards costs included an adjustment to the credit card rewards liability of approximately \$330 million driven by an increase in redemption rate assumptions

the lower net interchange income was largely offset by

- · lower new account origination costs
- higher merchant processing fees reflecting higher merchant processing volumes.

For further information, refer to CCB segment results on pages 20-24 and Note 5.

Other income reflects:

higher operating lease income from growth in auto operating lease volume in CCB

which was more than offset by

 the absence of a \$645 million legal benefit in Corporate related to a settlement with the FDIC receivership for Washington Mutual and with Deutsche Bank as trustee to certain Washington Mutual trusts.

For further information, refer to Note 5.

Net interest income increased primarily driven by the net impact of higher rates and loan growth across the businesses, partially offset by declines in Markets net interest income in CIB. The Firm's average interest-earning assets were \$2.2 trillion, up \$45 billion from the prior year, and the net interest yield on these assets, on a fully taxable equivalent ("FTE") basis, was 2.46%, an increase of 15 basis points from the prior year.

Year-to-date results

Investment banking fees increased reflecting:

 higher advisory and equity underwriting fees in CIB. The increase in advisory fees was driven by a higher number of large completed transactions. The increase in equity underwriting fees was driven by a higher share of fees, primarily due to strong performance in the IPO market

partially offset by

 lower debt underwriting fees primarily driven by declines in industry-wide fee levels and a lower share in leveraged finance.

Principal transactions revenue increased primarily reflecting:

 higher client-driven market-making revenue in CIB driven by strength across products in Equity Markets, predominantly derivatives and prime brokerage. Fixed Income Markets also recorded strong performance in Commodities and Currencies & Emerging Markets, largely offset by lower revenue in Credit

the increase in client-driven market-making revenue in CIB was partially offset by

 private equity losses of \$45 million compared with gains of \$153 million in the prior year on legacy investments in Corporate.

Asset management, administration and commissions revenue increased reflecting:

- higher asset management fees in AWM and CCB driven by net long-term product inflows and higher market levels, partially offset by fee compression in AWM
- higher brokerage commissions driven by higher volumes in CIB and AWM, and higher asset-based fees in CIB driven by net client inflows and higher market levels.

Investment securities losses increased primarily due to sales related to the repositioning of the investment securities portfolio.

Mortgage fees and related income decreased driven by lower net production revenue, reflecting lower margins, and lower servicing revenue, predominantly offset by higher MSR risk management results.

Card income increased driven by:

- · lower new account origination costs
- higher merchant processing fees reflecting higher merchant processing volumes

largely offset by

 lower net interchange income reflecting higher rewards costs and partner payments, largely offset by higher card sales volumes. The rewards costs included an adjustment to the credit card rewards liability of approximately \$330 million driven by an increase in redemption rate assumptions.

Other income increased reflecting:

- fair value gains of \$505 million recognized in the first quarter of 2018 related to the adoption of the new recognition and measurement accounting guidance for certain equity investments previously held at cost
- higher operating lease income from growth in auto operating lease volume in CCB

partially offset by

 the absence of a legal benefit of \$645 million in Corporate related to a settlement with the FDIC receivership for Washington Mutual and with Deutsche Bank as trustee to certain Washington Mutual trusts.

Net interest income increased primarily driven by the net impact of higher rates and loan growth across the businesses, partially offset by declines in Markets net interest income in CIB. The Firm's average interest-earning assets were \$2.2 trillion, up \$44 billion from the prior year, and the net interest yield on these assets, on a FTE basis, was 2.47%, an increase of 15 basis points from the prior year.

Provision for credit losses

	 Three months ended June 30,					Six months ended June 30,				
(in millions)	2018		2017	Change		2018		2017	Change	
Consumer, excluding credit card	\$ (56)	\$	12	NM	\$	90	\$	454	(80)%	
Credit card	1,164		1,387	(16)%		2,334		2,380	(2)	
Total consumer	1,108		1,399	(21)		2,424		2,834	(14)	
Wholesale	102		(184)	NM		(49)		(304)	84	
Total provision for credit losses	\$ 1,210	\$	1,215	- %	\$	2,375	\$	2,530	(6)%	

Quarterly results

The provision for credit losses was flat as a result of:

- a decrease in the consumer provision predominantly reflecting
 - no addition to the allowance for credit losses in CCB in the current quarter, compared with a net addition in the prior year primarily in the credit card portfolio
 - lower net charge-offs, primarily in the residential real estate portfolio, which includes a recovery from a loan sale, and reflects the continued improvement in home prices and delinquencies, predominantly offset by an increase in net charge-offs in the credit card portfolio due to seasoning of newer vintages, in line with expectations

the decrease in the consumer provision was offset by

- an increase in the wholesale provision reflecting
 - a net expense in the current period as a result of net portfolio activity, including new exposures and loan sales, compared with a net benefit in the prior year driven by a reduction in the allowance for credit losses in the Oil & Gas, Natural Gas Pipelines, and Metals and Mining portfolios.

For a more detailed discussion of the credit portfolio and the allowance for credit losses, refer to the segment discussions of CCB on pages 20-24, CIB on pages 25-30, CB on pages 31-34, the Allowance for Credit Losses on pages 67-69 and Note 12.

Year-to-date results

The provision for credit losses decreased as a result of:

- · a lower consumer provision predominantly reflecting
 - no addition to the allowance for credit losses in CCB in the current year, compared with a net addition in the prior year primarily in the credit card portfolio

partially offset by

- higher net charge-offs in the credit card portfolio due to seasoning of newer vintages, in line with expectations. These were largely offset by lower net charge-offs in the residential real estate portfolio, which includes a recovery from a loan sale and reflects the continued improvement in home prices and delinquencies
- the prior year included a \$218 million write-down recorded in connection with the sale of the student loan portfolio

the decrease in the consumer provision was partially offset by

- · a lower net benefit in the wholesale provision reflecting
- a net benefit in the current period, primarily driven by a single name in the Oil & Gas portfolio, partially offset by other net portfolio activity, compared with a net benefit in the prior year, driven by a reduction in the allowance for credit losses in the Oil & Gas, Natural Gas Pipelines, and Metals and Mining portfolios.

Noninterest expense

	Three m	onth	s ended Ju	ine 30,	Six moi	nths ended Jui	ne 30,
(in millions)	2018		2017	Change	2018	2017	Change
Compensation expense	\$ 8,338	\$	7,757	7%	\$ 17,200	\$ 16,013	7%
Noncompensation expense:							
Occupancy	981		912	8	1,869	1,873	_
Technology, communications and equipment	2,168		1,871	16	4,222	3,705	14
Professional and outside services	2,126		1,899	12	4,247	3,691	15
Marketing	798		756	6	1,598	1,469	9
Other expense ^{(a)(b)}	1,560		1,572	(1)	2,915	3,299	(12)
Total noncompensation expense	7,633		7,010	9	14,851	14,037	6
Total noninterest expense	\$ 15,971	\$	14,767	8%	\$ 32,051	\$ 30,050	7%

⁽a) Included Firmwide legal expense of \$61 million for the three months ended June 30, 2017, and \$70 million and \$279 million for the six months ended June 30, 2018 and 2017, respectively; there was no legal expense for the three months ended June 30, 2018.

⁽b) Included FDIC-related expense of \$368 million and \$376 million for the three months ended June 30, 2018 and 2017, respectively and \$751 million and \$757 million for the six months ended June 30, 2018 and 2017, respectively.

Quarterly results

Compensation expense increased driven by investments in headcount across the businesses, including bankers, advisors and business-related support staff; and higher performance-related compensation expense predominantly in CIB.

Noncompensation expense increased as a result of:

- higher outside services expense primarily due to higher volume-related transaction costs in CIB and higher external fees on revenue growth in AWM
- higher depreciation expense due to growth in auto operating lease volume in CCB
- a loss of \$174 million recorded in other expense in Corporate on the liquidation of a legal entity
- · higher investments in technology

For additional information on the liquidation of a legal entity, refer to Note 17.

Year-to-date results

Compensation expense increased driven by investments in headcount across the businesses, including bankers, advisors and business-related support staff, and higher performance-related compensation expense predominantly in CIB.

Noncompensation expense increased as a result of:

- higher outside services expense primarily due to higher volume-related transaction costs in CIB and higher external fees on revenue growth in AWM
- higher depreciation expense due to growth in auto operating lease volume in CCB
- a loss of \$174 million recorded in other expense in Corporate on the liquidation of a legal entity
- higher investments in technology partially offset by
- · lower legal expense

For a discussion of legal expense, refer to Note 22.

Income tax expense

	Three mo	onths ended Jun	ie 30,	Six months ended June 30,				
(in millions)	2018	2017	Change	2018	2017	Change		
Income before income tax expense	\$ 10,572	\$ 9,749	8%	\$ 21,234	\$ 18,090	17%		
Income tax expense	2,256	2,720	(17)	4,206	4,613	(9)		
Effective tax rate	21.3%	27.9%		19.8%	25.5%			

Quarterly results

The effective tax rate decreased due to the TCJA, including the reduction in the U.S. federal statutory income tax rate as well as a \$189 million tax benefit resulting from a change in the estimate for the deemed repatriation tax on non-U.S. earnings. The decrease was partially offset by the change in mix of income and expense subject to U.S. federal, state and local taxes.

Year-to-date results

The effective tax rate decreased due to the TCJA, including the reduction in the U.S. federal statutory income tax rate as well as a \$189 million tax benefit recorded in the second quarter of 2018 resulting from a change in the estimate for the deemed repatriation tax on non-U.S. earnings. The decrease was partially offset by higher pre-tax income, and the change in mix of income and expense subject to U.S. federal, state and local taxes.

CONSOLIDATED BALANCE SHEETS AND CASH FLOWS ANALYSIS

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

Consolidated balance sheets analysis

The following is a discussion of the significant changes between June 30, 2018, and December 31, 2017.

Selected Consolidated balance sheets data

(in millions)	Jun 30, 2018	Dec 31, 2017	Change
Assets			
Cash and due from banks	\$ 23,680	\$ 25,898	(9)%
Deposits with banks	381,500	405,406	(6)
Federal funds sold and securities purchased under resale agreements	226,505	198,422	14
Securities borrowed	108,246	105,112	3
Trading assets:			
Debt and equity instruments	360,289	325,321	11
Derivative receivables	58,510	56,523	4
Investment securities	233,015	249,958	(7)
Loans	948,414	930,697	2
Allowance for loan losses	(13,250)	(13,604)	(3)
Loans, net of allowance for loan losses	935,164	917,093	2
Accrued interest and accounts receivable	75,669	67,729	12
Premises and equipment	14,132	14,159	_
Goodwill, MSRs and other intangible assets	54,535	54,392	_
Other assets	118,805	113,587	5
Total assets	\$ 2,590,050	\$ 2,533,600	2%

Cash and due from banks and deposits with banks

decreased primarily as a result of net long-term debt maturities and a shift in the deployment of excess cash from deposits with banks into securities purchased under resale agreements. The Firm's excess cash is largely placed with various central banks, predominantly Federal Reserve Banks.

Federal funds sold and securities purchased under resale agreements increased primarily due to higher client activity in CIB and the shift in the deployment of excess cash from deposits with banks into securities purchased under resale agreements. For additional information on the Firm's Liquidity Risk Management, refer to pages 48-52.

Trading assets-debt and equity instruments increased predominantly as a result of client-driven market-making activities in CIB, primarily debt instruments in Fixed Income Markets, and equity instruments in prime brokerage, driven by higher client demand. For additional information, refer to Notes 2 and 4.

Investment securities decreased primarily reflecting net sales, paydowns and maturities of U.S. government agency mortgage-backed securities ("MBS"), commercial MBS, and obligations of U.S. states and municipalities. For additional information on Investment securities, refer to Corporate segment results on pages 39–40, Investment Portfolio Risk Management on page 70, and Notes 2 and 9.

Loans increased reflecting:

 higher wholesale loans across all lines of business, predominantly driven by CIB, including loans to financial institution and commercial and industrial clients, and in AWM due to higher loans to international and domestic Private Banking clients

partially offset by

 lower consumer loans driven by the seasonal decline in credit card balances, paydown of home equity loans, runoff of PCI loans, and a mortgage loan sale, predominantly offset by higher retention of high-quality prime mortgages in CCB and AWM.

The allowance for loan losses decreased reflecting:

- a net reduction in the wholesale allowance primarily in the Oil & Gas portfolio driven by a single name
- the consumer allowance was relatively flat.

For a detailed discussion of loans and the allowance for loan losses, refer to Credit Risk Management on pages 53-70, and Notes 2, 3, 11 and 12.

Accrued interest and accounts receivable increased primarily reflecting higher client receivables related to client-driven activities in CIB.

Other assets increased largely reflecting higher auto operating lease assets from growth in business volume in CCB.

For information on Goodwill and MSRs, refer to Note 14.

Selected Consolidated balance sheets data (continued)

(in millions)	Jun 30, 2018	Dec 31, 2017	Change
Liabilities			
Deposits	\$ 1,452,122	\$ 1,443,982	1%
Federal funds purchased and securities loaned or sold under repurchase agreements	175,293	158,916	10
Short-term borrowings	63,918	51,802	23
Trading liabilities:			
Debt and equity instruments	107,327	85,886	25
Derivative payables	42,511	37,777	13
Accounts payable and other liabilities	196,984	189,383	4
Beneficial interests issued by consolidated variable interest entities ("VIEs")	21,323	26,081	(18)
Long-term debt	273,114	284,080	(4)
Total liabilities	2,332,592	2,277,907	2
Stockholders' equity	257,458	255,693	1
Total liabilities and stockholders' equity	\$ 2,590,050	\$ 2,533,600	2%

Deposits increased due to:

 higher deposits in the consumer business reflecting the continuation of growth from new and existing customers and low attrition rates in CCB, partially offset by balance migration as customers shift from deposits largely into the Firm's investment-related products; and in the wholesale business reflecting an increase in CIB's Treasury Services business driven by growth in client activity

partially offset by

lower deposits in the other wholesale businesses
primarily driven by the impact of seasonality in CB and
AWM, and balance migration in AWM predominantly into
the Firm's investment-related products.

For more information, refer to the Liquidity Risk Management discussion on pages 48-52; and Notes 2 and 15.

Federal funds purchased and securities loaned or sold under repurchase agreements increased reflecting higher secured financing of trading assets-debt and equity instruments, partially offset by a change in the mix of funding to short-term borrowings in CIB.

Short-term borrowings increased driven by a change in the mix of funding for CIB activities from securities sold under repurchase agreements to short-term borrowings, and the net issuance of commercial paper. For additional information, refer to Liquidity Risk Management on pages 48–52.

Trading liabilities-debt and equity instruments increased predominantly as a result of client-driven market-making activities in CIB, primarily debt instruments in Fixed Income Markets, and equity instruments in prime brokerage. For additional information, refer to Note 2.

Trading liabilities-derivative payables increased predominantly as a result of client-driven market-making activities in CIB Markets, which increased equity and interest rate derivative payables. For additional information, refer to Derivative contracts on pages 65-66, and Notes 2 and 4.

Beneficial interests issued by consolidated VIEs decreased due to net maturities of credit card securitizations. For further information on Firm-sponsored VIEs and loan securitization trusts, refer to Off-Balance Sheet Arrangements on page 14 and Notes 13 and 20.

Long-term debt decreased primarily driven by lower Federal Home Loan Bank ("FHLB") advances and net maturities of senior debt. For additional information on the Firm's long-term debt activities, refer to Liquidity Risk Management on pages 48-52.

For information on changes in stockholders' equity, refer to page 87, and on the Firm's capital actions, refer to Capital actions on pages 46-47.

Consolidated cash flows analysis

The following is a discussion of cash flow activities during the six months ended June 30, 2018 and 2017.

	Six months ended June 30,					
(in millions)		2018		2017		
Net cash provided by/(used in)						
Operating activities	\$	576	\$	(18,486)		
Investing activities		(38,974)		24,539		
Financing activities		13,766		47,911		
Effect of exchange rate changes on cash		(1,492)		5,408		
Net increase/(decrease) in cash and due from banks and deposits with banks	\$	(26,124)	\$	59,372		

Operating activities

- In 2018, cash provided primarily reflected increased trading liabilities-debt and equity instruments and accounts payable and other liabilities, offset by increases in trading assets-debt and equity instruments.
- In 2017, cash used primarily reflected increases in trading assets-debt and equity instruments and accrued interest and accounts receivable, and decreases in trading liabilities-derivative payables, and accounts payable and other liabilities, partially offset by a decrease in other assets.

Investing activities

- In 2018, cash used reflected an increase in securities purchased under resale agreements and higher net loans originated, partially offset by lower investment securities.
- In 2017, cash provided reflected a decrease in securities purchased under resale agreements and lower investment securities, partially offset by a net increase in loan originations.

Financing activities

- In 2018, cash provided reflected higher securities loaned or sold under repurchase agreements, short-term borrowings and deposits, partially offset by a decrease in long-term borrowings.
- In 2017, cash provided reflected higher deposits, and short-term borrowings, partially offset by a decrease in long-term borrowings.
- Additionally, for both periods, cash was used for repurchases of common stock and dividends on common and preferred stock.

For a further discussion of the activities affecting the Firm's cash flows, refer to Consolidated Balance Sheets Analysis on pages 11-13, Capital Risk Management on pages 43-47, and Liquidity Risk Management on pages 48-52 of this Form 10-Q, and pages 92-97 of JPMorgan Chase's 2017 Annual Report.

OFF-BALANCE SHEET ARRANGEMENTS

In the normal course of business, the Firm enters into various contractual obligations that may require future cash payments. Certain obligations are recognized on-balance sheet, while others are off-balance sheet under accounting principles generally accepted in the U.S. ("U.S. GAAP").

The Firm is involved with several types of off-balance sheet arrangements, including through nonconsolidated special-purpose entities ("SPEs"), which are a type of VIE, and through lending-related financial instruments (e.g., commitments and guarantees).

The Firm holds capital, as deemed appropriate, against all SPE-related transactions and related exposures, such as derivative transactions and lending-related commitments and guarantees.

The Firm has no commitments to issue its own stock to support any SPE transaction, and its policies require that transactions with SPEs be conducted at arm's length and reflect market pricing. Consistent with this policy, no JPMorgan Chase employee is permitted to invest in SPEs with which the Firm is involved where such investment would violate the Firm's Code of Conduct.

The table below provides an index of where in this Form 10-Q a discussion of the Firm's various off-balance sheet arrangements can be found. In addition, refer to Note 1 for information about the Firm's consolidation policies.

Type of off-balance sheet arrangement	Location of disclosure	Page references
Special-purpose entities: variable interests and other obligations, including contingent obligations, arising from variable interests in nonconsolidated VIEs	Refer to Note 13	145-150
Off-balance sheet lending-related financial instruments, guarantees, and other commitments	Refer to Note 20	159-162

EXPLANATION AND RECONCILIATION OF THE FIRM'S USE OF NON-GAAP FINANCIAL MEASURES AND KEY PERFORMANCE MEASURES

Non-GAAP financial measures

The Firm prepares its Consolidated Financial Statements using U.S. GAAP; these financial statements appear on pages 84-88. That presentation, which is referred to as "reported" basis, provides the reader with an understanding of the Firm's results that can be tracked consistently from year-to-year and enables a comparison of the Firm's performance with other companies' U.S. GAAP financial statements.

In addition to analyzing the Firm's results on a reported basis, management reviews Firmwide results, including the overhead ratio, on a "managed" basis; these Firmwide managed basis results are non-GAAP financial measures. The Firm also reviews the results of the lines of business on a managed basis. The Firm's definition of managed basis starts, in each case, with the reported U.S. GAAP results and includes certain reclassifications to present total net revenue for the Firm (and each of the reportable business segments) on an FTE basis. Accordingly, revenue from investments that receive tax credits and tax-exempt securities is presented in the managed results on a basis comparable to taxable investments and securities. These financial measures allow management to assess the comparability of revenue from year-to-year arising from

both taxable and tax-exempt sources. The corresponding income tax impact related to tax-exempt items is recorded within income tax expense. These adjustments have no impact on net income as reported by the Firm as a whole or by the lines of business.

Management also uses certain non-GAAP financial measures at the Firm and business-segment level, because these other non-GAAP financial measures provide information to investors about the underlying operational performance and trends of the Firm or of the particular business segment, as the case may be, and, therefore, facilitate a comparison of the Firm or the business segment with the performance of its relevant competitors. For additional information on these non-GAAP measures, refer to Business Segment Results on pages 18-40.

Additionally, certain credit metrics and ratios disclosed by the Firm exclude PCI loans, and are therefore non-GAAP measures. For additional information on these non-GAAP measures, refer to Credit and Investment Risk Management on pages 53-70.

Non-GAAP financial measures used by the Firm may not be comparable to similarly named non-GAAP financial measures used by other companies.

The following summary tables provide a reconciliation from the Firm's reported U.S. GAAP results to managed basis.

				Thr	ee months	ende	d June 30,				
			2018						2017		
(in millions, except ratios)	eported results	ec	y taxable- Juivalent stments ^{(a)(b)}	N	Managed basis	ı	Reported results	ed	y taxable- quivalent ustments ^(a)	M	lanaged basis
Other income	\$ 1,255	\$	474	\$	1,729	\$	1,474	\$	596	\$	2,070
Total noninterest revenue	14,268		474		14,742		13,523		596		14,119
Net interest income	13,485		161		13,646		12,208		339		12,547
Total net revenue	27,753		635		28,388		25,731		935		26,666
Pre-provision profit	11,782		635		12,417		10,964		935		11,899
Income before income tax expense	10,572		635		11,207		9,749		935		10,684
Income tax expense	\$ 2,256	\$	635	\$	2,891	\$	2,720	\$	935	\$	3,655
Overhead ratio	58%		NM		56%	,	57%		NM		55%

				Si	x months e	nded	June 30,				
			2018						2017		
(in millions, except ratios)	Reported results	6	illy taxable- equivalent ustments ^{(a)(b)}	N	Managed basis	-	Reported results	ϵ	lly taxable- quivalent justments ^(a)	N	lanaged basis
Other income	\$ 2,881	\$	929	\$	3,810	\$	2,245	\$	1,178	\$	3,423
Total noninterest revenue	28,863		929		29,792		26,398		1,178		27,576
Net interest income	26,797		319		27,116		24,272		668		24,940
Total net revenue	55,660		1,248		56,908		50,670		1,846		52,516
Pre-provision profit	23,609		1,248		24,857		20,620		1,846		22,466
Income before income tax expense	21,234		1,248		22,482		18,090		1,846		19,936
Income tax expense	\$ 4,206	\$	1,248	\$	5,454	\$	4,613	\$	1,846	\$	6,459
Overhead ratio	58%		NM		56%)	59%		NM		57%

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

⁽a) Predominantly recognized in CIB and CB business segments and Corporate.

⁽b) The decrease in fully taxable-equivalent adjustments in the three and six months ended June 30, 2018, reflects the impact of the TCJA.

Net interest income excluding CIB's Markets businesses

In addition to reviewing net interest income on a managed basis, management also reviews net interest income excluding net interest income arising from CIB's Markets businesses to assess the performance of the Firm's lending, investing (including asset-liability management) and deposit-raising activities. This net interest income is referred to as non-markets related net interest income. CIB's Markets businesses are Fixed Income Markets and

Equity Markets. Management believes that disclosure of non-markets related net interest income provides investors and analysts with another measure by which to analyze the non-markets-related business trends of the Firm and provides a comparable measure to other financial institutions that are primarily focused on lending, investing and deposit-raising activities.

The data presented below are non-GAAP financial measures due to the exclusion of markets-related net interest income arising from CIB.

		Three	mor	iths ended Jun	e 30,		Six mo	onth	ns ended June 3	0,
(in millions, except rates)		2018		2017	Change		2018		2017	Change
Net interest income - managed basis ^{(a)(b)}	\$	13,646	\$	12,547	9%	\$	27,116	\$	24,940	9%
Less: CIB Markets net interest income ^(c)		754		1,075	(30)		1,784		2,439	(27)
Net interest income excluding CIB Markets ^(a)	\$	12,892	\$	11,472	12	\$	25,332	\$	22,501	13
Average interest-earning assets	\$ 2	2,222,277	\$	2,177,109	2	\$ 2	,212,897	\$	2,169,055	2
Less: Average CIB Markets interest-earning assets(c)		611,432		537,263	14		601,544		530,051	13
Average interest-earning assets excluding CIB Markets	\$ 1	,610,845	\$	1,639,846	(2)%	\$ 1	,611,353	\$	1,639,004	(2)%
Net interest yield on average interest-earning assets - managed basis		2.46%	ó	2.31%			2.47%	6	2.32%	
Net interest yield on average CIB Markets interest-earning assets ^(c)		0.49		0.80			0.60		0.93	
Net interest yield on average interest-earning assets excluding CIB Markets		3.21%	ó	2.81%			3.17%	6	2.77%	

⁽a) Interest includes the effect of related hedges. Taxable-equivalent amounts are used where applicable.

⁽b) For a reconciliation of net interest income on a reported and managed basis, refer to reconciliation from the Firm's reported U.S. GAAP results to managed basis on page 15.

⁽c) For further information on CIB's Markets businesses, refer to page 29.

Tangible common equity, ROTCE and TBVPS

Tangible common equity ("TCE"), ROTCE and TBVPS are each non-GAAP financial measures. TCE represents the Firm's common stockholders' equity (i.e., total stockholders' equity less preferred stock) less goodwill and identifiable intangible assets (other than MSRs), net of related deferred tax liabilities. ROTCE measures the Firm's net income

applicable to common equity as a percentage of average TCE. TBVPS represents the Firm's TCE at period-end divided by common shares at period-end. TCE, ROTCE, and TBVPS are utilized by the Firm, as well as investors and analysts, in assessing the Firm's use of equity.

The following summary table provides a reconciliation from the Firm's common stockholders' equity to TCE.

	Perio	d-en	d			Ave	rage			
	Jun 30.		Dec 31.	Three months	ende	ed June 30,		Six months e	nded	June 30,
(in millions, except per share and ratio data)	2018		2017	2018		2017		2018		2017
Common stockholders' equity	\$ 231,390	\$	229,625	\$ 228,901	\$	230,200	\$	228,261	\$	228,959
Less: Goodwill	47,488		47,507	47,494		47,290		47,499		47,292
Less: Other intangible assets	806		855	822		838		833		845
Add: Certain Deferred tax liabilities (a)(b)	2,227		2,204	2,221		3,239		2,216		3,234
Tangible common equity	\$ 185,323	\$	183,467	\$ 182,806	\$	185,311	\$	182,145	\$	184,056
Return on tangible common equity	NA		NA	17%	6	14%		18%	, o	14%
Tangible book value per share	\$ 55.14	\$	53.56	NA		NA		NA		NA

⁽a) Represents deferred tax liabilities related to tax-deductible goodwill and to identifiable intangibles created in nontaxable transactions, which are netted against goodwill and other intangibles when calculating TCE.

Key performance measures

The Firm considers the following to be key regulatory capital measures:

- Capital, risk-weighted assets ("RWA"), and capital and leverage ratios presented under Basel III Standardized and Advanced Fully Phased-In rules, and
- SLR calculated under Basel III Advanced Fully Phased-In rules.

The Firm, as well as banking regulators, investors and analysts use these measures to assess the Firm's regulatory capital position and to compare the Firm's regulatory capital to that of other financial services companies.

For additional information on these measures, refer to Capital Risk Management on pages 43-47.

Core loans are also considered a key performance measure. Core loans represent loans considered central to the Firm's ongoing businesses; and exclude loans classified as trading assets, runoff portfolios, discontinued portfolios and portfolios the Firm has an intent to exit. Core loans is a measure utilized by the Firm and its investors and analysts in assessing actual growth in the loan portfolio.

⁽b) Includes the effect from the revaluation of the Firm's net deferred tax liability as a result of the TCJA.

BUSINESS SEGMENT RESULTS

The Firm is managed on a line of business basis. There are four major reportable business segments - Consumer & Community Banking, Corporate & Investment Bank, Commercial Banking and Asset & Wealth Management. In addition, there is a Corporate segment.

The business segments are determined based on the products and services provided, or the type of customer served, and they reflect the manner in which financial information is currently evaluated by management. Results of these lines of business are presented on a managed basis. For a definition of managed basis, refer to Explanation and Reconciliation of the Firm's use of Non-GAAP Financial Measures and Key Performance Measures on pages 15–17.

Description of business segment reporting methodology

Results of the business segments are intended to present each segment as if it were a stand-alone business. The management reporting process that derives business segment results includes the allocation of certain income and expense items. For further information about line of business capital, refer to Line of business equity on page 46. The Firm periodically assesses the assumptions, methodologies and reporting classifications used for segment reporting, and further refinements may be implemented in future periods.

Business segment capital allocation

The amount of capital assigned to each business is referred to as equity. On at least an annual basis, the Firm assesses the level of capital required for each line of business as well as the assumptions and methodologies used to allocate capital. For additional information on business segment capital allocation, refer to Line of business equity on pages 88-89 of JPMorgan Chase's 2017 Annual Report.

For a further discussion of those methodologies, refer to Business Segment Results - Description of business segment reporting methodology on pages 55-56 of JPMorgan Chase's 2017 Annual Report.

Segment results - managed basis

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

Net income in 2018 for the business segments reflects the favorable impact of the reduction in the U.S. federal statutory income tax rate as a result of the TCJA.

The following tables summarize the business segment results for the periods indicated.

Three months ended June 30,	Tot	al n	et revenue		Total nor	ninterest exp	ense	Pre-provisi	ion profit/(I	oss)
(in millions)	2018		2017	Change	2018	2017	Change	2018	2017	Change
Consumer & Community Banking	\$ 12,497	\$	11,412	10%	\$ 6,879 \$	6,500	6%	\$ 5,618 \$	4,912	14%
Corporate & Investment Bank	9,923		8,925	11	5,403	4,877	11	4,520	4,048	12
Commercial Banking	2,316		2,088	11	844	790	7	1,472	1,298	13
Asset & Wealth Management	3,572		3,437	4	2,566	2,417	6	1,006	1,020	(1)
Corporate	80		804	(90)	 279	183	52	(199)	621	NM
Total	\$ 28,388	\$	26,666	6%	\$ 15,971 \$	14,767	8%	\$ 12,417 \$	11,899	4%

Three months ended June 30,	Provision fo	r credit los	ses	Net inc	ome/(loss)		Return on equity	
(in millions, except ratios)	2018	2017	Change	2018	2017	Change	2018	2017
Consumer & Community Banking	\$ 1,108 \$	1,394	(21)%	\$ 3,412 \$	2,223	53%	26%	17%
Corporate & Investment Bank	58	(53)	NM	3,198	2,710	18	17	15
Commercial Banking	43	(130)	NM	1,087	902	21	21	17
Asset & Wealth Management	2	4	(50)	755	624	21	33	27
Corporate	(1)		NM	(136)	570	NM	NM	NM
Total	\$ 1,210 \$	1,215	-%	\$ 8,316 \$	7,029	18%	14%	12%

Six months ended June 30,	Total r	et revenue		Total noni	nterest exp	ense	Pre-provisi	on profit/(le	oss)
(in millions)	 2018	2017	Change	2018	2017	Change	2018	2017	Change
Consumer & Community Banking	\$ 25,094 \$	22,382	12%	\$ 13,788 \$	12,895	7%	\$ 11,306 \$	9,487	19%
Corporate & Investment Bank	20,406	18,524	10	11,062	10,061	10	9,344	8,463	10
Commercial Banking	4,482	4,106	9	1,688	1,615	5	2,794	2,491	12
Asset & Wealth Management	7,078	6,725	5	5,147	5,198	(1)	1,931	1,527	26
Corporate	(152)	779	NM	366	281	30	(518)	498	NM
Total	\$ 56,908 \$	52,516	8%	\$ 32,051 \$	30,050	7%	\$ 24,857 \$	22,466	11%

Six months ended June 30,	Provision fo	r credit los	ses	Net inc	ome/(loss)		Return on equity	
(in millions, except ratios)	2018	2017	Change	2018	2017	Change	2018	2017
Consumer & Community Banking	\$ 2,425 \$	2,824	(14)% \$	6,738 \$	4,211	60%	26%	16%
Corporate & Investment Bank	(100)	(149)	33	7,172	5,951	21	20	16
Commercial Banking	38	(167)	NM	2,112	1,701	24	20	16
Asset & Wealth Management	17	22	(23)	1,525	1,009	51	33	22
Corporate	(5)	-	NM	(519)	605	NM	NM	NM
Total	\$ 2,375 \$	2,530	(6)% \$	17,028 \$	13,477	26%	14%	11%

The following sections provide a comparative discussion of business segment results as of or for the three and six months ended June 30, 2018 versus the corresponding period in the prior year, unless otherwise specified.

CONSUMER & COMMUNITY BANKING

For a discussion of the business profile of CCB, refer to pages 57-61 of JPMorgan Chase's 2017 Annual Report and Line of Business Metrics on page 177.

Selected income statement data

	Three	mont	hs ended Jui	ne 30,	Six m	onth	ns ended June	30,
(in millions, except ratios)	2018		2017	Change	2018		2017	Change
Revenue								
Lending- and deposit-related fees	\$ 875	\$	850	3%	\$ 1,732	\$	1,662	4%
Asset management, administration and commissions	591		562	5	1,166		1,101	6
Mortgage fees and related income	324		401	(19)	789		807	(2)
Card income	910		1,061	(14)	2,080		1,878	11
All other income	1,048		810	29	2,120		1,553	37
Noninterest revenue	3,748		3,684	2	7,887		7,001	13
Net interest income	8,749		7,728	13	17,207		15,381	12
Total net revenue	12,497		11,412	10	25,094		22,382	12
Provision for credit losses	1,108		1,394	(21)	2,425		2,824	(14)
Noninterest expense								
Compensation expense ^(a)	2,621		2,504	5	5,281		5,030	5
Noncompensation expense ^{(a)(b)}	4,258		3,996	7	8,507		7,865	8
Total noninterest expense	6,879		6,500	6	13,788		12,895	7
Income before income tax expense	4,510		3,518	28	8,881		6,663	33
Income tax expense	1,098		1,295	(15)	2,143		2,452	(13)
Net income	\$ 3,412	\$	2,223	53	\$ 6,738	\$	4,211	60
Revenue by line of business								
Consumer & Business Banking	\$ 6,131	\$	5,233	17	\$ 11,853	\$	10,139	17
Home Lending	1,347		1,426	(6)	2,856		2,955	(3)
Card, Merchant Services & Auto	5,019		4,753	6	10,385		9,288	12
Mortgage fees and related income details:								
Net production revenue	93		152	(39)	188		293	(36)
Net mortgage servicing revenue ^(c)	231		249	(7)	 601		514	17
Mortgage fees and related income	\$ 324	\$	401	(19)%	\$ 789	\$	807	(2)%
Financial ratios								
Return on equity	26%)	17%		26%		16%	
Overhead ratio	55		57		55		58	

Note: In the discussion and the tables which follow, CCB presents certain financial measures which exclude the impact of PCI loans; these are non-GAAP financial measures.

⁽a) Effective in the first quarter of 2018, certain operations staff were transferred from CCB to CB. The prior period amounts have been revised to conform with the current period presentation. For a further discussion of this transfer, refer to CB segment results on page 31.

⁽b) Included operating lease depreciation expense of \$827 million and \$638 million for the three months ended June 30, 2018 and 2017, respectively, and \$1.6 billion and \$1.2 billion for six months ended June 30, 2018 and 2017, respectively.

⁽c) Included MSR risk management results of \$(23) million and \$(57) million for the three months ended June 30, 2018 and 2017, respectively and \$(6) million and \$(109) million for six months ended June 30, 2018 and 2017, respectively.

Quarterly results

Net income was \$3.4 billion, an increase of 53%.

Net revenue was \$12.5 billion, an increase of 10%.

Net interest income was \$8.7 billion, up 13%, driven by:

- higher deposit margins and growth in deposit balances, and
- margin expansion and higher loan balances in Card, partially offset by
- loan spread compression from higher rates in Home Lending and Auto, and
- the impact of the sale of the student loan portfolio in the prior year.

Noninterest revenue was \$3.7 billion, up 2%, driven by:

- lower new account origination costs in Card,
- · higher auto lease volume, and
- · higher MSR risk management results,

predominantly offset by

- lower net interchange reflecting higher rewards costs and partner payments, partially offset by higher card sales volumes. The rewards costs included an adjustment to the credit card rewards liability of approximately \$330 million driven by an increase in redemption rate assumptions, and
- lower net production revenue reflecting lower mortgage production margins.

Refer to Note 14 for further information regarding changes in value of the MSR asset and related hedges, and mortgage fees and related income.

Noninterest expense was \$6.9 billion, up 6%, driven by:

- · higher auto lease depreciation, and
- · investments in technology.

The provision for credit losses was \$1.1 billion, a decrease of 21% from the prior year, reflecting:

- no addition to the allowance for credit losses in the current quarter, compared with a net addition of \$250 million in the prior year primarily in the credit card portfolio, and
- lower net charge-offs, primarily in the residential real estate portfolio, which includes a recovery of approximately \$130 million from a loan sale, and reflects continued improvement in home prices and delinquencies, predominantly offset by an increase in net charge-offs in the credit card portfolio due to seasoning of newer vintages, in line with expectations.

Year-to-date results

Net income was \$6.7 billion, an increase of 60%.

Net revenue was \$25.1 billion, an increase of 12%.

Net interest income was \$17.2 billion, up 12%, driven by:

- higher deposit margins and growth in deposit balances, and
- margin expansion and higher loan balances in Card, partially offset by
- loan spread compression from higher rates in Home Lending and Auto, and
- the impact of the sale of the student loan portfolio in the prior year.

Noninterest revenue was \$7.9 billion, up 13%, driven by:

- lower new account origination costs in Card,
- · higher auto lease volume, and
- higher MSR risk management results,

partially offset by

- lower net interchange reflecting higher rewards costs and partner payments, largely offset by higher card sales volumes. The rewards costs included an adjustment to the credit card rewards liability of approximately \$330 million driven by an increase in redemption rate assumptions, and
- lower net production revenue reflecting lower mortgage production margins.

Noninterest expense was \$13.8 billion, up 7%, driven by:

- · investments in technology and marketing,
- · higher auto lease depreciation, and
- · continued business growth.

The provision for credit losses was \$2.4 billion, a decrease of 14% from the prior year, reflecting:

 no addition to the allowance for credit losses in the current year, compared with a net addition of \$250 million in the prior year primarily in the credit card portfolio

partially offset by

- higher net charge-offs in the credit card portfolio due to seasoning of newer vintages, in line with expectations.
 These were largely offset by lower net charge-offs in the residential real estate portfolio, which includes a recovery of approximately \$130 million from a loan sale, and reflects the continued improvement in home prices and delinquencies
- the prior year included a \$218 million write-down recorded in connection with the sale of the student loan portfolio.

Selected metrics

		r for the three m ended June 30,	nonths		or for the six mor ended June 30,	iths
(in millions, except headcount)	2018	2017	Change	2018	2017	Change
Selected balance sheet data (period-end)						
Total assets	\$ 552,674	\$ 529,859	4%	\$ 552,674	\$ 529,859	4%
Loans:						
Consumer & Business Banking	26,272	25,044	5	26,272	25,044	5
Home equity	39,033	46,330	(16)	39,033	46,330	(16)
Residential mortgage	202,205	189,661	7	202,205	189,661	7
Home Lending	241,238	235,991	2	241,238	235,991	2
Card	145,255	140,141	4	145,255	140,141	4
Auto	65,014	65,627	(1)	65,014	65,627	(1)
Student	-	75	NM	_	75	NM
Total loans	477,779	466,878	2	477,779	466,878	2
Core loans	419,295	393,639	7	419,295	393,639	7
Deposits	679,154	648,369	5	679,154	648,369	5
Equity	51,000	51,000	-	51,000	51,000	-
Selected balance sheet data (average)						
Total assets	\$ 544,642	\$ 528,598	3	\$ 541,806	\$ 530,338	2
Loans:						
Consumer & Business Banking	26,110	24,725	6	25,978	24,543	6
Home equity	39,898	47,339	(16)	40,836	48,303	(15)
Residential mortgage	201,587	187,201	8	200,129	185,489	8
Home Lending	241,485	234,540	3	240,965	233,792	3
Card	142,724	138,132	3	142,825	137,674	4
Auto	65,383	65,474	_	65,622	65,395	_
Student	_	4,642	NM	_	5,772	NM
Total loans	475,702	467,513	2	475,390	467,176	2
Core loans	414,120	387,783	7	412,145	384,419	7
Deposits	673,761	639,873	5	666,719	631,441	6
Equity	51,000	51,000	_	51,000	51,000	_
Headcount ^(a)	131,945	135,040	(2)%	131,945	135,040	(2)%

⁽a) Effective in the first quarter of 2018, certain operations staff were transferred from CCB to CB. The prior period amount has been revised to conform with the current period presentation. For further discussion of this transfer, refer to CB segment results on page 31.

Selected metrics

	As (or the three m ded June 30,	nonths		As o	for the six moded	nths
(in millions, except ratio data)	201	.8	2017	Change		2018	2017	Change
Credit data and quality statistics								
Nonaccrual loans ^{(a)(b)}	\$ 3,85	54	\$ 4,124	(7)%	\$	3,854	\$ 4,124	(7)%
Net charge-offs/(recoveries)(c)								
Consumer & Business Banking	Ē	50	56	(11)		103	113	(9)
Home equity	1	(7)	7	NM		9	54	(83)
Residential mortgage	(14	49)	(4)	NM		(147)	(1)	NM
Home Lending	(15	56)	3	NM	_	(138)	53	NM
Card	1,16	54	1,037	12		2,334	2,030	15
Auto		50	48	4		126	129	(2)
Student		_	_	NM		_	498 (g)	(100)
Total net charge-offs/(recoveries)	\$ 1,10	08	\$ 1,144	(3)	\$	2,425	\$ 2,823 (g)	(14)
Net charge-off/(recovery) rate(c)								
Consumer & Business Banking	0.7	77%	0.91%			0.80%	0.93%	
Home equity ^(d)	(0.0	09)	0.08			0.06	0.30	
Residential mortgage ^(d)	(0.3	33)	(0.01)			(0.16)	_	
Home Lending ^(d)	(0.2	29)	0.01			(0.13)	0.05	
Card	3.2	27	3.01			3.30	2.98	
Auto	0.3	31	0.29			0.39	0.40	
Student		_	_			_	NM	
Total net charge-off/(recovery) rate ^(d)	1.0	00	1.07			1.10	1.32 (g)	
30+ day delinquency rate								
Home Lending ^{(e)(f)}	3.0	36%	1.02%			0.86%	1.02%	
Card	1.6	55	1.59			1.65	1.59	
Auto	0.7	77	0.88			0.77	0.88	
90+ day delinquency rate — Card	3.0	85	0.80			0.85	0.80	
Allowance for loan losses								
Consumer & Business Banking	\$ 79	96	\$ 796	_	\$	796	\$ 796	_
Home Lending, excluding PCI loans	1,00	03	1,153	(13)		1,003	1,153	(13)
Home Lending — PCI loans ^(c)	2,13	32	2,265	(6)		2,132	2,265	(6)
Card	4,88	34	4,384	11		4,884	4,384	11
Auto	46	54	499	(7)		464	499	(7)
Total allowance for loan losses ^(c)	\$ 9,27	 79	\$ 9,097	2%	\$	9,279	\$ 9,097	2%

- (a) Excludes PCI loans. The Firm is recognizing interest income on each pool of PCI loans as each of the pools is performing.
- (b) At June 30, 2018 and 2017, nonaccrual loans excluded mortgage loans 90 or more days past due and insured by U.S. government agencies of \$3.3 billion and \$4.1 billion, respectively. Student loans insured by U.S. government agencies under the Federal Family Education Loan Program ("FFELP") and 90 or more days past due were also excluded from nonaccrual loans prior to sale of the student loan portfolio in 2017. These amounts have been excluded based upon the government guarantee.
- (c) Net charge-offs and the net charge-off rates for the three months ended June 30, 2018 and 2017, excluded \$73 million and \$22 million, respectively, and for six months ended June 30, 2018 and 2017, excluded \$93 million and \$46 million, respectively, of write-offs in the PCI portfolio. These write-offs decreased the allowance for loan losses for PCI loans. For further information on PCI write-offs, refer to Summary of changes in the allowance for credit losses on page 68.
- (d) Excludes the impact of PCI loans. For the three months ended June 30, 2018 and 2017, the net charge-off/(recovery) rates including the impact of PCI loans were as follows: (1) home equity of (0.07)% and 0.06%, respectively; (2) residential mortgage of (0.30)% and (0.01)%, respectively; (3) Home Lending of (0.26)% and 0.01%, respectively; and (4) total CCB of 0.93% and 0.99%, respectively. For the six months ended June 30, 2018 and 2017, the net charge-off/(recovery) rates included impact of PCI loans were as follows: (1) home equity of 0.04% and 0.23%, respectively; (2) residential mortgage of (0.15)% and -%, respectively; (3) Home Lending of (0.12)% and 0.05%, respectively; and (4) total CCB of 1.03% and 1.23%, respectively.
- (e) At June 30, 2018 and 2017, excluded mortgage loans insured by U.S. government agencies of \$5.0 billion and \$6.0 billion, respectively, that are 30 or more days past due. These amounts have been excluded based upon the government guarantee.
- (f) Excludes PCI loans. The 30+ day delinquency rate for PCI loans was 9.40% and 9.06% at June 30, 2018 and 2017, respectively.
- (g) Excluding net charge-offs of \$467 million related to the student loan portfolio sale, the total net charge-off rate for the six months ended June 30, 2017 would have been 1.10%.

Selected metrics

	As of o	r the three mor ed June 30,	iths	As of	or the six mont led June 30,	hs
(in billions, except ratios and where otherwise noted)	2018	2017	Change	 2018	2017	Change
Business Metrics						
Number of branches	5,091	5,217	(2)%	5,091	5,217	(2)%
Active digital customers (in thousands) ^(a)	47,952	45,876	5	47,952	45,876	5
Active mobile customers (in thousands) ^(b)	31,651	28,386	12	31,651	28,386	12
Debit and credit card sales volume ^(c)	\$ 255.0	\$ 231.3	10	\$ 487.4	\$ 440.7	11
Consumer & Business Banking						
Average deposits	\$ 659.8	\$ 625.4	5	\$ 653.1	\$ 617.3	6
Deposit margin	2.36%	1.96%		2.28%	1.92%	
Business banking origination volume	\$ 1.9	\$ 2.2	(12)	\$ 3.6	\$ 3.9	(8)
Client investment assets	283.7	253.0	12	283.7	253.0	12
Home Lending						
Mortgage origination volume by channel						
Retail	\$ 10.4	\$ 9.7	7	\$ 18.7	\$ 18.7	_
Correspondent	11.1	14.2	(22)	21.0	27.6	(24)
Total mortgage origination volume ^(d)	\$ 21.5	\$ 23.9	(10)	\$ 39.7	\$ 46.3	(14)
Total loans serviced (period-end)	\$ 802.6	\$ 827.8	(3)	\$ 802.6	\$ 827.8	(3)
Third-party mortgage loans serviced (period-end)	533.0	568.0	(6)	533.0	568.0	(6)
MSR carrying value (period-end)	6.2	5.8	7	6.2	5.8	7
Ratio of MSR carrying value (period-end) to third-party mortgage loans serviced (period-end)	1.16%	1.02%		1.16%	1.02%	
MSR revenue multiple ^(e)	3.31x	2.91x		3.22x	2.91x	
Card, excluding Commercial Card						
Credit card sales volume	\$ 174.0	\$ 156.8	11	\$ 331.1	\$ 296.5	12
New accounts opened (in millions)	1.9	2.1	(10)	3.9	4.6	(15)
Card Services						
Net revenue rate	10.38%	10.53%		11.00%	10.34%	
Merchant Services						
Merchant processing volume	\$ 330.8	\$ 294.4	12	\$ 647.1	\$ 568.7	14
Auto						
Loan and lease origination volume	\$ 8.3	\$ 8.3	_	\$ 16.7	\$ 16.3	2
Average Auto operating lease assets	18.4	14.7	25%	18.0	14.2	26%

⁽a) Users of all web and/or mobile platforms who have logged in within the past 90 days.

⁽b) Users of all mobile platforms who have logged in within the past 90 days.

⁽c) The prior period amounts have been revised to conform with the current period presentation.

⁽d) Firmwide mortgage origination volume was \$23.7 billion and \$26.2 billion for the three months ended June 30, 2018 and 2017, respectively, and \$43.7 billion and \$51.8 billion for the six months ended June 30, 2018 and 2017, respectively.

⁽e) Represents the ratio of MSR carrying value (period-end) to third-party mortgage loans serviced (period-end) divided by the ratio of annualized loan servicing-related revenue to third-party mortgage loans serviced (average).

CORPORATE & INVESTMENT BANK

For a discussion of the business profile of CIB, refer to pages 62-66 of JPMorgan Chase's 2017 Annual Report and Line of Business Metrics on page 177.

Effective January 1, 2018, the Firm adopted several new accounting standards; the guidance which had the most significant impact on the CIB segment results was revenue recognition, and recognition and measurement of financial assets. The revenue recognition guidance was applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

Selected income statement data

	Three r	nonth	s ended Jun	e 30,	Six mo	onths	ended June	30,
(in millions, except ratios)	2018		2017	Change	2018		2017	Change
Revenue								
Investment banking fees	\$ 2,139	\$	1,839	16%	\$ 3,835	\$	3,714	3%
Principal transactions	3,666		2,928	25	7,695		6,435	20
Lending- and deposit-related fees	382		387	(1)	763		775	(2)
Asset management, administration and commissions	1,155		1,068	8	2,286		2,120	8
All other income	190		258	(26)	870		435	100
Noninterest revenue	7,532		6,480	16	15,449		13,479	15
Net interest income	2,391		2,445	(2)	4,957		5,045	(2)
Total net revenue ^(a)	9,923		8,925	11	20,406		18,524	10
Provision for credit losses	58		(53)	NM	(100)		(149)	33
Noninterest expense								
Compensation expense	2,720		2,451	11	5,756		5,250	10
Noncompensation expense	2,683		2,426	11	5,306		4,811	10
Total noninterest expense	5,403		4,877	11	11,062		10,061	10
Income before income tax expense	4,462		4,101	9	9,444		8,612	10
Income tax expense	1,264		1,391	(9)	2,272		2,661	(15)
Net income	\$ 3,198	\$	2,710	18%	\$ 7,172	\$	5,951	21%
Financial ratios			_					
Return on equity	17%)	15%		20%		16%	
Overhead ratio	54		55		54		54	
Compensation expense as percentage of total net revenue	27		27		28		28	

⁽a) Included tax-equivalent adjustments, predominantly due to income tax credits related to alternative energy investments; income tax credits and amortization of the cost of investments in affordable housing projects; and tax-exempt income from municipal bonds of \$428 million and \$554 million for the three months ended June 30, 2018 and 2017, respectively, and \$833 million and \$1.1 billion for the six months ended June 30, 2018 and 2017, respectively.

Selected income statement data

	Three m	onth	s ended Jun	e 30,	Six mo	nths	ended June	30,
(in millions)	 2018		2017	Change	2018		2017	Change
Revenue by business								
Investment Banking	\$ 1,949	\$	1,731	13%	\$ 3,536	\$	3,445	3%
Treasury Services	1,181		1,055	12	2,297		2,036	13
Lending	321		373	(14)	623		762	(18)
Total Banking	3,451		3,159	9	6,456		6,243	3
Fixed Income Markets	3,453		3,216	7	8,006		7,431	8
Equity Markets	1,959		1,586	24	3,976		3,192	25
Securities Services	1,103		982	12	2,162		1,898	14
Credit Adjustments & Other ^(a)	(43)		(18)	(139)	(194)		(240)	19
Total Markets & Investor Services	6,472		5,766	12	13,950		12,281	14
Total net revenue	\$ 9,923	\$	8,925	11%	\$ 20,406	\$	18,524	10%

⁽a) Consists primarily of credit valuation adjustments ("CVA") managed centrally within CIB and funding valuation adjustments ("FVA") on derivatives. Results are primarily reported in principal transactions revenue. Results are presented net of associated hedging activities and net of CVA and FVA amounts allocated to Fixed Income Markets and Equity Markets.

Quarterly results

Net income was \$3.2 billion, up 18%.

Net revenue was \$9.9 billion, up 11%.

Banking revenue was \$3.5 billion, up 9%. Investment banking revenue was \$1.9 billion, up 13%, driven by higher equity underwriting and advisory fees. The Firm maintained its #1 ranking for Global Investment Banking fees, according to Dealogic. Equity underwriting fees were \$570 million, up 49%, driven by a higher share of fees, primarily due to strong performance in the IPO and convertible markets. Advisory fees were \$626 million, up 24%, driven by a higher number of large completed transactions. Debt underwriting fees were \$943 million, flat compared to the prior year. Treasury Services revenue was \$1.2 billion, up 12%, driven by the impact of higher interest rates and growth in deposits. Lending revenue was \$321 million, down 14%, predominantly driven by lower net interest income primarily reflecting a change in the portfolio composition and overall spread tightening as well as higher gains in the prior year on securities received from restructurings.

Markets & Investor Services revenue was \$6.5 billion, up 12%. Fixed Income Markets revenue was \$3.5 billion, up 7%. Excluding the reduction of approximately \$160 million in tax-equivalent adjustments as a result of the TCJA, Fixed Income Markets revenue was up 12%. Fixed Income Markets reflected solid performance across products with good client activity, and improved Commodities revenue compared to a challenging prior year. Equity Markets revenue was \$2.0 billion, up 24%, driven by strength across products, predominantly in derivatives and prime brokerage. Securities Services revenue was \$1.1 billion, up 12%, predominantly driven by higher interest rates and deposit growth, as well as higher asset-based fees driven by net client inflows and higher market levels.

The provision for credit losses was an expense of \$58 million, reflecting net portfolio activity, including new exposures and loan sales. The prior year was a benefit of \$53 million primarily driven by a reduction in the allowance for credit losses in the Oil & Gas portfolio.

Noninterest expense was \$5.4 billion, up 11%, predominantly driven by higher performance-related compensation, volume-related transaction costs and investments in technology.

Year-to-date results

Net income was \$7.2 billion, up 21%.

Net revenue was \$20.4 billion, up 10%.

Banking revenue was \$6.5 billion, up 3%. Investment banking revenue was \$3.5 billion, up 3%, driven by higher advisory and equity underwriting fees, largely offset by lower debt underwriting fees. The Firm maintained its #1 ranking for Global Investment Banking fees, according to Dealogic. Advisory fees were \$1.2 billion, up 20%, driven by a higher number of large completed transactions. Equity underwriting fees were \$916 million, up 14%, driven by a higher share of fees, primarily due to strong performance in the IPO market. Debt underwriting fees were \$1.7 billion, down 10%, primarily driven by declines in industry-wide fee levels and a lower share in leveraged finance. Treasury Services revenue was \$2.3 billion, up 13%, predominantly driven by the impact of higher interest rates and growth in deposits. Lending revenue was \$623 million, down 18%, driven by lower net interest income primarily reflecting a change in the portfolio composition and overall spread tightening as well as higher gains in the prior year on securities received from restructurings.

Markets & Investor Services revenue was \$14.0 billion, up 14%. The results included approximately \$500 million of fair value gains related to the adoption in the first quarter of 2018 of the new recognition and measurement accounting guidance for certain equity investments previously held at cost, and a reduction of approximately \$310 million in tax-equivalent adjustments as a result of the TCJA. Fixed Income Markets revenue was \$8.0 billion. up 8%. Excluding the impact of these fair value gains and tax-equivalent adjustments, Fixed Income Markets revenue was up 5%, with strong performance in Currencies & Emerging Markets and Commodities, largely offset by lower revenue in Credit. Equity Markets revenue was \$4.0 billion. up 25%, driven by strength across derivatives, prime brokerage and Cash Equities. Securities Services revenue was \$2.2 billion, up 14%, predominantly driven by the impact of higher interest rates and deposit growth as well as higher asset-based fees driven by net client inflows and higher market levels.

The provision for credit losses was a benefit of \$100 million, primarily driven by a reduction in the allowance for credit losses in the Oil & Gas portfolio related to a single name, partially offset by net portfolio activity. The prior year was a benefit of \$149 million primarily driven by a reduction in the allowance for credit losses in the Oil & Gas portfolio.

Noninterest expense was \$11.1 billion, up 10%, largely driven by higher performance-related compensation expense, volume-related transaction costs and investments in technology.

Selected metrics

		the three mo	nths		r the six mon d June 30,	ths
(in millions, except headcount)	2018	2017	Change	2018	2017	Change
Selected balance sheet data (period-end)						
Assets	\$ 908,954	\$ 847,377	7%	\$ 908,954	\$ 847,377	7%
Loans:						
Loans retained ^(a)	116,645	108,935	7	116,645	108,935	7
Loans held-for-sale and loans at fair value	6,254	7,168	(13)	6,254	7,168	(13)
Total loans	122,899	116,103	6	122,899	116,103	6
Core loans	122,574	115,764	6	122,574	115,764	6
Equity	70,000	70,000	_	70,000	70,000	_
Selected balance sheet data (average)						
Assets	\$ 937,217	\$ 864,686	8	\$ 923,756	\$ 851,425	8
Trading assets-debt and equity instruments	358,611	351,678	2	356,750	340,073	5
Trading assets-derivative receivables	60,623	54,937	10	60,393	56,931	6
Loans:						
Loans retained ^(a)	\$ 113,950	\$ 110,011	4	\$ 111,665	\$ 109,204	2
Loans held-for-sale and loans at fair value	5,961	5,789	3	5,722	5,550	3
Total loans	\$ 119,911	\$ 115,800	4	\$ 117,387	\$ 114,754	2
Core loans	119,637	115,434	4	117,090	114,375	2
Equity	70,000	70,000	-	70,000	70,000	_
Headcount	51,400	49,228	4%	51,400	49,228	4%

⁽a) Loans retained includes credit portfolio loans, loans held by consolidated Firm-administered multi-seller conduits, trade finance loans, other held-forinvestment loans and overdrafts.

Selected metrics

			he three mor June 30,	nths			the six mont June 30,	hs
(in millions, except ratios)	2018		2017	Change	2018		2017	Change
Credit data and quality statistics								
Net charge-offs/(recoveries)	\$ 114	\$	47	143%	\$ 134	\$	29	362%
Nonperforming assets:								
Nonaccrual loans:								
Nonaccrual loans retained ^(a)	\$ 352	\$	462	(24)	\$ 352	\$	462	(24)
Nonaccrual loans held-for-sale and loans at fair value	175		31	465	175		31	465
Total nonaccrual loans	527		493	7	527		493	7
Derivative receivables	112		170	(34)	112		170	(34)
Assets acquired in loan satisfactions	104		71	46	104		71	46
Total nonperforming assets	\$ 743	\$	734	1	\$ 743	\$	734	1
Allowance for credit losses:								
Allowance for loan losses	\$ 1,043	\$	1,298	(20)	\$ 1,043	\$	1,298	(20)
Allowance for lending-related commitments	828		745	11	828		745	11
Total allowance for credit losses	\$ 1,871	\$	2,043	(8)%	\$ 1,871	\$	2,043	(8)%
Net charge-off/(recovery) rate(b)	0.40%)	0.17%		0.24%	•	0.05%	
Allowance for loan losses to period-end loans retained	0.89		1.19		0.89		1.19	
Allowance for loan losses to period-end loans retained, excluding trade finance and conduits ^(c)	1.27		1.83		1.27		1.83	
Allowance for loan losses to nonaccrual loans retained(a)	296		281		296		281	
Nonaccrual loans to total period-end loans	0.43%)	0.42%		0.43%)	0.42%	

⁽a) Allowance for loan losses of \$141 million and \$164 million were held against these nonaccrual loans at June 30, 2018 and 2017, respectively. (b) Loans held-for-sale and loans at fair value were excluded when calculating the net charge-off/(recovery) rate.

⁽c) Management uses allowance for loan losses to period-end loans retained, excluding trade finance and conduits, a non-GAAP financial measure, to provide a more meaningful assessment of CIB's allowance coverage ratio.

Investment banking fees

	Three m	nonth	ıs ended June	e 30,		30,		
(in millions)	2018		2017	Change		2018	2017	Change
Advisory	\$ 626	\$	503	24%	\$	1,201	\$ 1,004	20%
Equity underwriting	570		382	49		916	807	14
Debt underwriting ^(a)	943		954	(1)		1,718	1,903	(10)
Total investment banking fees	\$ 2,139	\$	1,839	16%	\$	3,835	\$ 3,714	3%

(a) Includes loan syndications.

League table results - wallet share

		ee mont une 30,	hs ended 2018	Fı	ull-yea	r 2017
	R	ank	Share	Ra	ank	Share
Based on fees ^(a)						
Long-term debt ^(b)						
Global	#	1	7.4%	#	1	7.6%
U.S.		2	11.4		2	10.9
Equity and equity-related ^(c)						
Global		1	10.2		2	7.1
U.S.		1	13.3		1	11.6
$M&A^{(d)}$						
Global		2	9.0		2	8.5
U.S.		2	10.0		2	9.2
Loan syndications						
Global		1	9.7		1	9.4
U.S.		1	11.3		1	11.0
Global investment banking fees ^(e)	#	1	9.0%	#	1	8.1%

⁽a) Source: Dealogic as of July 1, 2018. Reflects the ranking of revenue wallet and market share.

⁽b) Long-term debt rankings include investment-grade, high-yield, supranationals, sovereigns, agencies, covered bonds, asset-backed securities ("ABS") and mortgage-backed securities ("MBS"); and exclude money market, short-term debt, and U.S. municipal securities.

⁽c) Global equity and equity-related ranking includes rights offerings and Chinese A-Shares.

⁽d) Global M&A reflect the removal of any withdrawn transactions. U.S. M&A revenue wallet represents wallet from client parents based in the U.S.

⁽e) Global investment banking fees exclude money market, short-term debt and shelf deals.

Markets revenue

The following table summarizes select income statement data for the Markets businesses. Markets includes both Fixed Income Markets and Equity Markets. Markets revenue comprises principal transactions, fees, commissions and other income, as well as net interest income. The Firm assesses its Markets business performance on a total revenue basis, as offsets may occur across revenue line items. For example, securities that generate net interest income may be risk-managed by derivatives that are

recorded in principal transactions. For a description of the composition of these income statement line items, refer to Notes 5 and 6. For further information, refer to Markets revenue on page 65 of JPMorgan Chase's 2017 Annual Report.

For the periods presented below, the predominant source of principal transactions revenue was the amount recognized upon executing new transactions.

	Three	months	ended Jun	e 30		Three	mon	iths ended Ju	ne 30	,	
		20	018						2017		
(in millions)	ed Income Markets	Equity	Markets	Tot	al Markets	Fi	xed Income Markets	Equ	uity Markets	Tota	l Markets
Principal transactions	\$ 2,214	\$	1,664	\$	3,878	\$	1,851	\$	1,109	\$	2,960
Lending- and deposit-related fees	49		2		51		48		1		49
Asset management, administration and commissions	104		460		564		103		410		513
All other income	171		(6)		165		207		(2)		205
Noninterest revenue	2,538		2,120		4,658		2,209		1,518		3,727
Net interest income ^(a)	915		(161)		754		1,007		68		1,075
Total net revenue	\$ 3,453	\$	1,959	\$	5,412	\$	3,216	\$	1,586	\$	4,802

	Six	mo	nths ended June	30,			Six m	ont	ths ended June	30,	
			2018						2017		
(in millions)	ed Income Markets	E	Equity Markets	То	tal Markets	F	ixed Income Markets	Eq	uity Markets	Total	Markets
Principal transactions	\$ 4,946	\$	3,276	\$	8,222	\$	4,552	\$	2,118	\$	6,670
Lending- and deposit-related fees	96		3		99		97		2		99
Asset management, administration and commissions	217		918		1,135		207		833		1,040
All other income	731		11		742		384		(9)		375
Noninterest revenue	5,990		4,208		10,198		5,240		2,944		8,184
Net interest income ^(a)	2,016		(232)		1,784		2,191		248		2,439
Total net revenue	\$ 8,006	\$	3,976	\$	11,982	\$	7,431	\$	3,192	\$	10,623

⁽a) Declines in Markets net interest income were driven by higher funding costs.

Selected metrics

		the three mo	onths	As of c	nths	
(in millions, except where otherwise noted)	2018	2017	Change	2018	2017	Change
Assets under custody ("AUC") by asset class (period-end) (in billions):						
Fixed Income	\$ 12,611	\$ 12,662	-%	\$ 12,611	\$ 12,662	-%
Equity	8,791	7,214	22	8,791	7,214	22
Other ^(a)	2,782	2,258	23	2,782	2,258	23
Total AUC	\$ 24,184	\$ 22,134	9	\$ 24,184	\$ 22,134	9
Client deposits and other third party liabilities (average)(b)	\$ 433,646	\$ 404,920	7	\$ 428,502	\$ 398,354	8

- (a) Consists of mutual funds, unit investment trusts, currencies, annuities, insurance contracts, options and other contracts.
- (b) Client deposits and other third party liabilities pertain to the Treasury Services and Securities Services businesses.

International metrics

		the three mo	onths		r the six mor d June 30,	nths
(in millions, except where otherwise noted)	2018	2017	Change	2018	2017	Change
Total net revenue ^(a)						
Europe/Middle East/Africa	\$ 3,420	\$ 3,034	13%	\$ 7,076	\$ 6,223	14%
Asia/Pacific	1,410	1,034	36	2,881	2,273	27
Latin America/Caribbean	329	244	35	743	585	27
Total international net revenue	5,159	4,312	20	10,700	9,081	18
North America	4,764	4,613	3	9,706	9,443	3
Total net revenue	\$ 9,923	\$ 8,925	11	\$ 20,406	\$ 18,524	10
Loans retained (period-end) ^(a)						
Europe/Middle East/Africa	\$ 26,971	\$ 26,690	1	\$ 26,971	\$ 26,690	1
Asia/Pacific	17,255	14,709	17	17,255	14,709	17
Latin America/Caribbean	4,046	6,196	(35)	4,046	6,196	(35)
Total international loans	48,272	47,595	1	48,272	47,595	1
North America	68,373	61,340	11	68,373	61,340	11
Total loans retained ^(a)	\$ 116,645	\$ 108,935	7	\$ 116,645	\$ 108,935	7
Client deposits and other third-party liabilities (average) ^{(a)(b)}						
Europe/Middle East/Africa	\$ 164,650	\$ 156,575	5	\$ 162,046	\$ 150,436	8
Asia/Pacific	81,549	73,327	11	82,603	73,544	12
Latin America/Caribbean	27,747	25,806	8	26,620	24,934	7
Total international	\$ 273,946	\$ 255,708	7	\$ 271,269	\$ 248,914	9
North America	159,700	149,212	7	157,233	149,440	5
Total client deposits and other third-party liabilities	\$ 433,646	\$ 404,920	7	\$ 428,502	\$ 398,354	8
AUC (period-end) ^(a) (in billions)						
North America	\$ 14,942	\$ 13,207	13	\$ 14,942	\$ 13,207	13
All other regions	9,242	8,927	4	9,242	8,927	4
Total AUC	\$ 24,184	\$ 22,134	9%	\$ 24,184	\$ 22,134	9%

⁽a) Total net revenue is based predominantly on the domicile of the client or location of the trading desk, as applicable. Loans outstanding (excluding loans held-for-sale and loans at fair value), client deposits and other third-party liabilities, and AUC are based predominantly on the domicile of the client.

⁽b) Client deposits and other third party liabilities pertain to the Treasury Services and Securities Services businesses.

COMMERCIAL BANKING

For a discussion of the business profile of CB, refer to pages 67-69 of JPMorgan Chase's 2017 Annual Report and Line of Business Metrics on page 178.

Selected income statement data

	Three i	month	s ended Jur	ne 30,	Six m	onths	ended June	30,
(in millions)	 2018		2017	Change	2018		2017	Change
Revenue								
Lending- and deposit-related fees	\$ 224	\$	232	(3)%	\$ 450	\$	467	(4)%
Asset management, administration and commissions	16		16	_	34		34	_
All other income ^(a)	393		335	17	698		681	2
Noninterest revenue	633		583	9	1,182		1,182	_
Net interest income	1,683		1,505	12	3,300		2,924	13
Total net revenue ^(b)	2,316		2,088	11	4,482		4,106	9
Provision for credit losses	43		(130)	NM	38		(167)	NM
Noninterest expense								
Compensation expense(c)	415		382	9	836		770	9
Noncompensation expense(c)	429		408	5	852		845	1
Total noninterest expense	844		790	7	1,688		1,615	5
Income before income tax expense	1,429		1,428	_	2,756		2,658	4
Income tax expense	342		526	(35)	644		957	(33)
Net income	\$ 1,087	\$	902	21%	\$ 2,112	\$	1,701	24%

- (a) Includes revenue from investment banking products and commercial card transactions.
- (b) Total net revenue included tax-equivalent adjustments from income tax credits related to equity investments in designated community development entities that provide loans to qualified businesses in low-income communities, as well as tax-exempt income related to municipal financing activities of \$106 million and \$131 million for the three months ended June 30, 2018 and 2017 respectively, and \$209 million and \$252 million for the six months ended June 30, 2018 and June 30, 2017, respectively. The decrease in taxable-equivalent adjustments reflects the impact of TCJA.
- (c) Effective in the first quarter of 2018, certain Operations and Compliance staff were transferred from CCB and Corporate, respectively, to CB. As a result, expense for this staff is now reflected in CB's compensation expense with a corresponding adjustment for expense allocations reflected in noncompensation expense. CB's, Corporate's and CCB's previously reported headcount, compensation expense and noncompensation expense have been revised to reflect this transfer.

Quarterly results

Net income was \$1.1 billion, an increase of 21%.

Net revenue was \$2.3 billion, an increase of 11%. Net interest income was \$1.7 billion, an increase of 12%, driven by higher deposit margins. Noninterest revenue was \$633 million, an increase of 9% driven by higher investment banking revenue from an increased number of large transactions.

Noninterest expense was \$844 million, an increase of 7%, predominantly driven by continued investments in banker coverage and technology.

The provision for credit losses was an expense of \$43 million. The prior year was a benefit of \$130 million driven by net reductions in the allowance for credit losses, including in the Oil & Gas, Natural Gas Pipelines and Metals & Mining portfolios.

Year-to-date results

Net income was \$2.1 billion, an increase of 24%.

Net revenue was \$4.5 billion, an increase of 9%. Net interest income was \$3.3 billion, an increase of 13%, driven by higher deposit margins. Noninterest revenue was \$1.2 billion, flat compared with the prior year.

Noninterest expense was \$1.7 billion, an increase of 5%, driven by continued investments in banker coverage and technology.

The provision for credit losses was an expense of \$38 million. The prior year was a benefit of \$167 million, driven by net reductions in the allowance for credit losses, including in the Oil & Gas, Natural Gas Pipelines and Metals & Mining portfolios.

Selected income statement data (continued)

	Three r	nonth	s ended Jun	e 30,		Six m	onths	ended June	30,
(in millions, except ratios)	2018		2017	Change		2018		2017	Change
Revenue by product									
Lending	\$ 1,026	\$	1,023	-%	\$	2,025	\$	2,015	-%
Treasury services	1,026		854	20		1,998		1,650	21
Investment banking ^(a)	254		189	34		438		405	8
Other	10		22	(55)	_	21		36	(42)
Total Commercial Banking net revenue	\$ 2,316	\$	2,088	11	\$	4,482	\$	4,106	9
Investment banking revenue, gross ^(b)	\$ 739	\$	533	39	\$	1,308	\$	1,199	9
Revenue by client segment									
Middle Market Banking	\$ 919	\$	839	10	\$	1,814	\$	1,623	12
Corporate Client Banking	807		662	22		1,494		1,328	13
Commercial Term Lending	344		364	(5)		696		731	(5)
Real Estate Banking	170		147	16		334		281	19
Other	76		76	-	_	144		143	1
Total Commercial Banking net revenue	\$ 2,316	\$	2,088	11%	\$	4,482	\$	4,106	9%
Financial ratios									
Return on equity	21%)	17%			20%)	16%	
Overhead ratio	36		38			38		39	

⁽a) Includes total Firm revenue from investment banking products sold to CB clients, net of revenue sharing with the CIB.(b) Represents total Firm revenue from investment banking products sold to CB clients. As a result of the adoption of the revenue recognition guidance, prior period amounts have been revised to conform with the current period presentation. For additional information, refer to Note 1.

Selected metrics

	As of or for the three months ended June 30,						As of or for the six months ended June 30,					
(in millions, except headcount)	 2018		2017	Change		2018		2017	Change			
Selected balance sheet data (period-end)												
Total assets	\$ 220,232	\$	220,676	- %	\$	220,232	\$	220,676	- %			
Loans:												
Loans retained	205,834		197,912	4		205,834		197,912	4			
Loans held-for-sale and loans at fair value	1,576		1,661	(5)		1,576		1,661	(5)			
Total loans	\$ 207,410	\$	199,573	4	\$	207,410	\$	199,573	4			
Core loans	207,238		199,319	4		207,238		199,319	4			
Equity	20,000		20,000	_		20,000		20,000	_			
Period-end loans by client segment												
Middle Market Banking	\$ 58,301	\$	56,377	3	\$	58,301	\$	56,377	3			
Corporate Client Banking	48,885		45,918	6		48,885		45,918	6			
Commercial Term Lending	75,621		73,760	3		75,621		73,760	3			
Real Estate Banking	17,458		16,726	4		17,458		16,726	4			
Other	7,145		6,792	5	_	7,145		6,792	5			
Total Commercial Banking loans	\$ 207,410	\$	199,573	4	\$	207,410	\$	199,573	4			
Selected balance sheet data (average)												
Total assets	\$ 218,396	\$	217,694	_	\$	217,781	\$	215,750	1			
Loans:												
Loans retained	204,239		196,454	4		203,109		193,630	5			
Loans held-for-sale and loans at fair value	1,381		1,402	(1)		896		1,061	(16)			
Total loans	\$ 205,620	\$	197,856	4	\$	204,005	\$	194,691	5			
Core loans	205,440		197,567	4		203,809		194,391	5			
Average loans by client segment												
Middle Market Banking	\$ 57,346	\$	55,651	3	\$	57,052	\$	54,963	4			
Corporate Client Banking	48,150		46,483	4		46,962		45,041	4			
Commercial Term Lending	75,307		73,081	3		75,126		72,484	4			
Real Estate Banking	17,614		16,139	9		17,729		15,834	12			
Other	7,203		6,502	11	_	7,136		6,369	12			
Total Commercial Banking loans	\$ 205,620	\$	197,856	4	\$	204,005	\$	194,691	5			
Client deposits and other third-party liabilities	\$ 170,745	\$	173,214	(1)	\$	173,168	\$	174,987	(1)			
Equity	20,000		20,000	-		20,000		20,000	_			
Headcount ^(a)	10,579		9,857	7 %		10,579		9,857	7 %			

⁽a) Effective in the first quarter of 2018, certain Operations and Compliance staff were transferred from CCB and Corporate, respectively, to CB. The prior period amounts have been revised to conform with the current period presentation. For a further discussion of this transfer, refer to page 31, Selected income statement data, footnote (c).

Selected metrics (continued)

				he three mor June 30,	As of or for the six months ended June 30,					
(in millions, except ratios)		2018		2017	Change		2018		2017	Change
Credit data and quality statistics										
Net charge-offs/(recoveries)	\$	34	\$	8	325%	\$	34	\$	(2)	NM
Nonperforming assets										
Nonaccrual loans:										
Nonaccrual loans retained(a)	\$	546	\$	819	(33)	\$	546	\$	819	(33)%
Nonaccrual loans held-for-sale and loans at fair value		_		_	_		_		_	_
Total nonaccrual loans	\$	546	\$	819	(33)	\$	546	\$	819	(33)
Assets acquired in loan satisfactions		2		4	(50)		2		4	(50)
Total nonperforming assets	\$	548	\$	823	(33)	\$	548	\$	823	(33)
Allowance for credit losses:										
Allowance for loan losses	\$	2,622	\$	2,678	(2)	\$	2,622	\$	2,678	(2)
Allowance for lending-related commitments		243		331	(27)		243		331	(27)
Total allowance for credit losses	\$	2,865	\$	3,009	(5)%	\$	2,865	\$	3,009	(5)%
Net charge-off/(recovery) rate(b)		0.07%	6	0.02%			0.03%)	-%	
Allowance for loan losses to period-end loans retained		1.27		1.35			1.27		1.35	
Allowance for loan losses to nonaccrual loans retained(a)		480		327			480		327	
Nonaccrual loans to period-end total loans		0.26		0.41			0.26		0.41	

⁽a) Allowance for loan losses of \$126 million and \$112 million was held against nonaccrual loans retained at June 30, 2018 and 2017, respectively.(b) Loans held-for-sale and loans at fair value were excluded when calculating the net charge-off/(recovery) rate.

ASSET & WEALTH MANAGEMENT

For a discussion of the business profile of AWM, refer to pages 70-72 of JPMorgan Chase's 2017 Annual Report and Line of Business Metrics on pages 178-179.

Effective January 1, 2018, the Firm adopted several new accounting standards; the guidance which had the most significant impact on the AWM segment results was revenue recognition. The revenue recognition guidance was applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

Selected income statement data

	Three months ended June 30,						Six months ended June 30,					
(in millions, except ratios)		2018		2017	Change		2018		2017	Change		
Revenue												
Asset management, administration and commissions	\$	2,532	\$	2,435	4%	\$	5,060	\$	4,739	7%		
All other income		155		156	(1)		257		321	(20)		
Noninterest revenue		2,687		2,591	4		5,317		5,060	5		
Net interest income		885		846	5		1,761		1,665	6		
Total net revenue		3,572		3,437	4		7,078		6,725	5		
Provision for credit losses		2		4	(50)		17		22	(23)		
Noninterest expense												
Compensation expense		1,329		1,277	4		2,721		2,609	4		
Noncompensation expense		1,237		1,140	9		2,426		2,589	(6)		
Total noninterest expense		2,566		2,417	6		5,147		5,198	(1)		
Income before income tax expense		1,004		1,016	(1)		1,914		1,505	27		
Income tax expense		249		392	(36)		389		496	(22)		
Net income	\$	755	\$	624	21	\$	1,525	\$	1,009	51		
Revenue by line of business												
Asset Management	\$	1,826	\$	1,786	2	\$	3,613	\$	3,474	4		
Wealth Management		1,746		1,651	6	_	3,465		3,251	7		
Total net revenue	\$	3,572	\$	3,437	4%	\$	7,078	\$	6,725	5%		
Financial ratios												
Return on equity		33%	6	27%			339	6	22%			
Overhead ratio		72		70			73		77			
Pre-tax margin ratio:												
Asset Management		28		27			27		14			
Wealth Management		28		33			27		31			
Asset & Wealth Management		28		30			27		22			

Quarterly results

Net income was \$755 million, an increase of 21%.

Net revenue was \$3.6 billion, an increase of 4%. Net interest income was \$885 million, up 5%, driven by deposit margin expansion and loan growth. Noninterest revenue was \$2.7 billion, up 4%, driven by higher management fees from net long-term product inflows and higher market levels, partially offset by fee compression and the impact of lower market valuations of seed capital investments.

Noninterest expense was \$2.6 billion, up 6%, largely driven by continued investments in technology and advisors, as well as higher external fees on revenue growth.

Year-to-date results

Net income was \$1.5 billion, an increase of 51%.

Net revenue was \$7.1 billion, an increase of 5%. Net interest income was \$1.8 billion, up 6%, driven by deposit margin expansion and loan growth. Noninterest revenue was \$5.3 billion, up 5%, driven by higher management fees from net long-term product inflows and higher market levels, partially offset by fee compression and the impact of lower market valuations of seed capital investments.

Noninterest expense was \$5.1 billion, a decrease of 1%, driven by higher legal expense in 1Q17, largely offset by investments in technology and advisors, as well as higher external fees on revenue growth.

Selected metrics

(in millions, except ranking data, headcount and ratios)		As of or for the three months ended June 30,							As of or for the six months ended June 30,				
		2018		2017	Change		2018	2017		Change			
% of JPM mutual fund assets rated as 4- or 5-star ^(a)	59 %		6	65%		59 %		% 65%					
% of JPM mutual fund assets ranked in 1st or 2nd quartile:(b)													
1 year		65		60			65		60				
3 years		71		83			71		83				
5 years		85		77			85		77				
Selected balance sheet data (period-end)													
Total assets	\$ 1	.61,474	\$	147,508	9%	\$ 1	161,474	\$	147,508	9%			
Loans	1	38,606		124,517	11	1	138,606		124,517	11			
Core loans	1	38,606		124,517	11	1	138,606		124,517	11			
Deposits	1	31,511		146,758	(10)	1	131,511		146,758	(10)			
Equity		9,000		9,000	_		9,000		9,000	_			
Selected balance sheet data (average)													
Total assets	\$ 1	58,244	\$	142,966	11	\$ 1	156,305	\$	140,585	11			
Loans	1	36,710		122,173	12	1	134,683		120,252	12			
Core loans	1	36,710		122,173	12	1	134,683		120,252	12			
Deposits	1	39,557		150,786	(7)	1	141,865		154,776	(8)			
Equity		9,000		9,000	_		9,000		9,000	_			
Headcount		23,141		22,289	4		23,141		22,289	4			
Number of Wealth Management client advisors		2,644		2,452	8		2,644		2,452	8			
Credit data and quality statistics													
Net charge-offs	\$	(5)	\$	2	NM	\$	(4)	\$	5	NM			
Nonaccrual loans		323		400	(19)		323		400	(19)			
Allowance for credit losses:													
Allowance for loan losses	\$	304	\$	285	7	\$	304	\$	285	7			
Allowance for lending-related commitments		15		10	50		15		10	50			
Total allowance for credit losses	\$	319	\$	295	8%	\$	319	\$	295	8%			
Net charge-off rate		(0.01)%	6	0.01%			(0.01)9	6	0.01%				
Allowance for loan losses to period-end loans		0.22		0.23			0.22		0.23				
Allowance for loan losses to nonaccrual loans		94		71			94		71				
Nonaccrual loans to period-end loans		0.23		0.32			0.23		0.32				

⁽a) Represents the "overall star rating" derived from Morningstar for the U.S., the U.K., Luxembourg, Hong Kong and Taiwan domiciled funds; and Nomura "star rating" for Japan domiciled funds. Includes only Asset Management retail open-ended mutual funds that have a rating. Excludes money market funds, Undiscovered Managers Fund, and Brazil and India domiciled funds.

⁽b) Quartile ranking sourced from: Lipper for the U.S. and Taiwan domiciled funds; Morningstar for the U.K., Luxembourg and Hong Kong domiciled funds; Nomura for Japan domiciled funds and Fund Doctor for South Korea domiciled funds. Includes only Asset Management retail open-ended mutual funds that are ranked by the aforementioned sources. Excludes money market funds, Undiscovered Managers Fund, and Brazil and India domiciled funds.

Client assets

Client assets of \$2.8 trillion and assets under management of \$2.0 trillion were both up 8%, reflecting higher net inflows into long-term and liquidity products, as well as higher market levels.

Client assets

(in billions)	 2018	2017	Change
Assets by asset class			
Liquidity	\$ 448	\$ 434	3%
Fixed income	452	440	3
Equity	435	390	12
Multi-asset and alternatives	693	612	13
Total assets under management	2,028	1,876	8
Custody/brokerage/administration/deposits	771	722	7
Total client assets	\$ 2,799	\$ 2,598	8
Memo:			
Alternatives client assets (a)	\$ 172	\$ 159	8
Assets by client segment			
Private Banking	\$ 551	\$ 488	13
Institutional	934	889	5
Retail	543	 499	9
Total assets under management	\$ 2,028	\$ 1,876	8
Private Banking	\$ 1,298	\$ 1,188	9
Institutional	956	909	5
Retail	 545	501	9
Total client assets	\$ 2,799	\$ 2,598	8%

⁽a) Represents assets under management, as well as client balances in brokerage account

Client assets (continued)

	 Three months June 30,	Six months ended June 30,				
(in billions)	2018	2017		2018	2017	
Assets under management rollforward						
Beginning balance	\$ 2,016 \$	1,841	\$	2,034 \$	1,771	
Net asset flows:						
Liquidity	17	(7)		(4)	(6)	
Fixed income	(7)	2		(12)	7	
Equity	2	(3)		7	(7)	
Multi-asset and alternatives	9	10		25	17	
Market/performance/other impacts	(9)	33		(22)	94	
Ending balance, June 30	\$ 2,028 \$	1,876	\$	2,028 \$	1,876	
Client assets rollforward						
Beginning balance	\$ 2,788 \$	2,548	\$	2,789 \$	2,453	
Net asset flows	11	2		25	12	
Market/performance/other impacts	-	48		(15)	133	
Ending balance, June 30	\$ 2,799 \$	2,598	\$	2,799 \$	2,598	

International metrics

		 three mo une 30,	nths	As of or for the six months ended June 30,						
(in millions)	2018	2017	Change		2018	2017	Change			
Total net revenue (a)					'					
Europe/Middle East/Africa	\$ 692	\$ 663	4%	\$	1,418 \$	1,278	11%			
Asia/Pacific	391	342	14		784	660	19			
Latin America/Caribbean	234	222	5		461	401	15			
Total international net revenue	1,317	1,227	7		2,663	2,339	14			
North America	2,255	2,210	2		4,415	4,386	1			
Total net revenue ^(a)	\$ 3,572	\$ 3,437	4%	\$	7,078 \$	6,725	5%			

⁽a) Regional revenue is based on the domicile of the client.

	As of or for t ended	he three mo I June 30,	nths	As of or for the six months ended June 30,					
(in billions)	2018	2017	Change	2018	2017	Change			
Assets under management	'								
Europe/Middle East/Africa	\$ 371 \$	335	11%	\$ 371 \$	335	11%			
Asia/Pacific	164	136	21	164	136	21			
Latin America/Caribbean	65	57	14	65	57	14			
Total international assets under management	600	528	14	600	528	14			
North America	1,428	1,348	6	 1,428	1,348	6			
Total assets under management	\$ 2,028 \$	1,876	8	\$ 2,028 \$	1,876	8			
Client assets									
Europe/Middle East/Africa	\$ 431 \$	387	11	\$ 431 \$	387	11			
Asia/Pacific	229	196	17	229	196	17			
Latin America/Caribbean	160	152	5	160	152	5			
Total international client assets	820	735	12	820	735	12			
North America	1,979	1,863	6	1,979	1,863	6			
Total client assets	\$ 2,799 \$	2,598	8%	\$ 2,799 \$	2,598	8%			

For a discussion of Corporate, refer to pages 73-74 of JPMorgan Chase's 2017 Annual Report.

Selected income statement and balance sheet data

			or the three ded June 30			As of o	nths		
(in millions, except headcount)		2018	2017	Change		2018		2017	Change
Revenue									
Principal transactions	\$	83 \$	148	(44)%	\$	(61)	\$	163	NM
Investment securities losses		(80)	(34)	(135)%		(325)		(37)	NM
All other income/(loss) ^(a)		139	667	(79)%		343		728	(53)
Noninterest revenue		142	781	(82)%		(43)		854	NM
Net interest income		(62)	23	NM		(109)		(75)	(45)%
Total net revenue ^(b)		80	804	(90)%		(152)		779	NM
Provision for credit losses		(1)	_	NM		(5)		-	NM
Noninterest expense ^(c)		279	183	52		366		281	30 %
Income/(loss) before income tax expense/(benefit)		(198)	621	NM		(513)		498	NM
Income tax expense/(benefit)		(62)	51	NM		6		(107)	NM
Net income/(loss)	\$	(136) \$	570	NM	\$	(519)	\$	605	NM
Total net revenue									
Treasury and CIO	\$	87 \$	86	1	\$	49	\$	79	(38)%
Other Corporate		(7)	718	NM		(201)		700	NM
Total net revenue	\$	80 \$	804	(90)%	\$	(152)	\$	779	NM
Net income/(loss)									
Treasury and CIO	\$	(153) \$	(14)	NM	\$	(340)	\$	(81)	(320)
Other Corporate		17	584	(97)%		(179)		686	NM
Total net income/(loss)	\$	(136) \$	570	NM	\$	(519)	\$	605	NM
Total assets (period-end)	\$ 7	46,716	817,754	(9)	\$ 7	746,716	\$81	7,754	(9)
Loans (period-end)		1,720	1,696	1		1,720		1,696	1
Core loans ^(d)		1,720	1,696	1		1,720		1,696	1
Headcount ^(e)		35,877	32,843	9%		35,877	3	2,843	9%

- (a) Included revenue related to a legal settlement of \$645 million for both the three and six months ended June 30, 2017.
- (b) Included tax-equivalent adjustments, predominantly due to tax-exempt income from municipal bond investments of \$95 million and \$237 million for the three months ended June 30, 2018 and 2017, respectively, and \$193 million and \$465 million for six months ended June 30, 2018 and 2017, respectively. The decrease in taxable-equivalent adjustments reflects the impact of the TCJA.
- (c) Included legal expense/(benefit) of \$(8) million and \$16 million for the three months ended June 30, 2018 and 2017, respectively, and \$(50) million and \$(212) million for six months ended June 30, 2018 and 2017, respectively.
- (d) Average core loans were \$1.7 billion and \$1.6 billion for the three months ended June 30, 2018 and 2017, respectively, and \$1.7 billion and \$1.6 billion for the six months ended June 30, 2018 and 2017, respectively.
- (e) Effective in the first quarter of 2018, certain Compliance staff were transferred from Corporate to CB. The prior period amounts have been revised to conform with the current period presentation. For a further discussion of this transfer, refer to CB segment results on page 31.

Quarterly results

Net loss was \$136 million, compared with net income of \$570 million in the prior year.

Net revenue was \$80 million, compared with \$804 million in the prior year. The current period includes investment securities losses related to the repositioning of the investment securities portfolio. The prior year included a \$645 million benefit from a legal settlement.

Noninterest expense of \$279 million increased from the prior year, primarily driven by a pretax loss of \$174 million on the liquidation of a legal entity.

Current period income tax reflects a benefit of \$189 million resulting from a change in the estimate for the deemed repatriation tax on non-U.S. earnings as well as other net tax adjustments, that were predominantly offset by changes to certain tax reserves.

Year-to-date results

Net loss was \$519 million, compared with net income of \$605 million in the prior year.

Net revenue was a loss of \$152 million, compared with a gain of \$779 million in the prior-year. The current period includes investment securities losses related to the repositioning of the investment securities portfolio. The prior year included a \$645 million benefit from a legal settlement.

Noninterest expense of \$366 million, up \$85 million from prior year, includes a pretax loss in the current period of \$174 million on the liquidation of a legal entity.

Current period income tax expense reflects changes to certain tax reserves, largely offset by changes in the estimate for the deemed repatriation tax on non-U.S. earnings and other tax adjustments.

Treasury and CIO overview

At June 30, 2018, the average credit rating of the Treasury and CIO investment securities comprising the portfolio in the table below was AA+ (based upon external ratings where available and, where not available, based primarily upon internal ratings that correspond to ratings as defined by S&P and Moody's). Refer to Note 9 for further information on the Firm's investment securities portfolio.

For further information on liquidity and funding risk, refer to Liquidity Risk Management on pages 48-52. For information on interest rate, foreign exchange and other risks, refer to Market Risk Management on pages 71-75.

Selected income statement and balance sheet data

		r the three mored June 30,	nths	As of or for the six months ended June 30,							
(in millions)	2018	2017	Change	2018		2017	Change				
Investment securities losses	\$ (80)	\$ (34)	(135)%	\$ (325)	\$	(49)	NM				
Available-for-sale ("AFS") investment securities (average)	\$ 200,232	\$ 225,053	(11)%	\$ 202,266	\$	229,920	(12)%				
Held-to-maturity ("HTM") investment securities (average)	30,304	48,232	(37)	32,152		48,794	(34)				
Investment securities portfolio (average)	\$ 230,536	\$ 273,285	(16)	\$ 234,418	\$	278,714	(16)				
AFS investment securities (period-end)	\$ 200,434	\$ 213,291	(6)	\$ 200,434	\$	213,291	(6)				
HTM investment securities (period-end)	31,006	47,761	(35)	31,006		47,761	(35)				
Investment securities portfolio (period-end)	\$ 231,440	\$ 261,052	(11)%	\$ 231,440	\$	261,052	(11)%				

As permitted by the new hedge accounting guidance, the Firm elected to transfer certain investment securities from HTM to AFS in the first quarter of 2018. For additional information, refer to Notes 1 and 9.

ENTERPRISE-WIDE RISK MANAGEMENT

Risk is an inherent part of JPMorgan Chase's business activities. When the Firm extends a consumer or wholesale loan, advises customers on their investment decisions, makes markets in securities, or offers other products or services, the Firm takes on some degree of risk. The Firm's overall objective is to manage its businesses, and the associated risks, in a manner that balances serving the interests of its clients, customers and investors and protects the safety and soundness of the Firm.

The Firm believes that effective risk management requires:

- Acceptance of responsibility, including identification and escalation of risk issues, by all individuals within the Firm;
- Ownership of risk identification, assessment, data and management by each of the lines of business and corporate functions; and
- · Firmwide structures for risk governance.

The Firm strives for continual improvement through efforts to enhance controls, ongoing employee training and development, talent retention, and other measures. The Firm follows a disciplined and balanced compensation framework with strong internal governance and independent Board oversight. The impact of risk and control issues are carefully considered in the Firm's performance evaluation and incentive compensation processes.

Firmwide Risk Management is overseen and managed on an enterprise-wide basis. The Firm's approach to risk management involves understanding drivers of risks, risk types, and impacts of risks.

Drivers of risk include, but are not limited to, the economic environment, regulatory or government policy, competitor or market evolution, business decisions, process or judgment error, deliberate wrongdoing, dysfunctional markets, and natural disasters.

The Firm's risks are generally categorized in the following four risk types:

- Strategic risk is the risk associated with the Firm's current and future business plans and objectives, including capital risk, liquidity risk, and the impact to the Firm's reputation.
- Credit and investment risk is the risk associated with the default or change in credit profile of a client, counterparty or customer; or loss of principal or a reduction in expected returns on investments, including consumer credit risk, wholesale credit risk, and investment portfolio risk.
- Market risk is the risk associated with the effect of changes in market factors, such as interest and foreign exchange rates, equity and commodity prices, credit spreads or implied volatilities, on the value of assets and liabilities held for both the short and long term.
- Operational risk is the risk associated with inadequate or failed internal processes, people and systems, or from external events and includes compliance risk, conduct risk, legal risk, and estimations and model risk.

There may be many consequences of risks manifesting, including quantitative impacts such as reduction in earnings and capital, liquidity outflows, and fines or penalties, or qualitative impacts, such as reputation damage, loss of clients, and regulatory and enforcement actions.

The Firm has established Firmwide risk management functions to manage different risk types. The scope of a particular risk management function may include multiple risk types. For example, the Firm's Country Risk Management function oversees country risk which may be a driver of risk or an aggregation of exposures that could give rise to multiple risk types such as credit or market risk. The following provides an index of where in this Form 10-Q and in JPMorgan Chase's 2017 Annual Report information about the Firm's management of its key risks can be found.

Risk disclosures	Form 10-Q page reference	Annual Report page reference
Enterprise-wide risk management	41-42	75-80
Strategic risk management		81
Capital risk management	43-47	82-91
Liquidity risk management	48-52	92-97
Reputation risk management		98
Consumer credit portfolio	55-59	102-107
Wholesale credit portfolio	60-66	108-116
Investment portfolio risk management	70	120
Market risk management	71-75	121-128
Country risk management	76	129-130
Operational risk management		131-133
Compliance risk management		134
Conduct risk management		135
Legal risk management		136
Estimations and Model risk management		137

CAPITAL RISK MANAGEMENT

Capital risk is the risk the Firm has an insufficient level and composition of capital to support the Firm's business activities and associated risks during normal economic environments and under stressed conditions.

The Firm's capital risk management strategy focuses on maintaining long-term stability to enable it to build and invest in market-leading businesses, even in a highly stressed environment. Senior management considers the implications on the Firm's capital prior to making decisions that could impact future business activities. In addition to considering the Firm's earnings outlook, senior management evaluates all sources and uses of capital with a view to ensuring the Firm's capital strength.

The Firm's capital risk management objectives are achieved through the establishment of minimum capital targets and a strong capital governance framework. Capital risk management is intended to be flexible in order to react to a range of potential events. The Firm's minimum capital targets are based on the most binding of three pillars: an internal assessment of the Firm's capital needs; an estimate of required capital under the CCAR and Dodd-Frank Act stress testing requirements; and Basel III Fully Phased-In regulatory minimums. Where necessary, each pillar may include a management-established buffer.

For a further discussion of the Firm's Capital Risk Management, refer to pages 82-91 of JPMorgan Chase's 2017 Annual Report, Note 19 of this Form 10-Q, and the Firm's Pillar 3 Regulatory Capital Disclosures reports, which are available on the Firm's website (http://investor.shareholder.com/jpmorganchase/basel.cfm).

The Firm and its insured depository institution ("IDI") subsidiaries are subject to Basel III capital rules which include minimum capital ratio requirements that are subject to phase-in periods ("transitional period") through the end of 2018. While this required capital remains subject to the transitional rules during 2018, as of January 1, 2018, the Firm's capital in the form of CET1 and Tier 1, and the Firm's risk-weighted assets were equivalent whether calculated on a transitional basis or on a fully phased-in basis.

The capital adequacy of the Firm and its IDI subsidiaries, both during the transitional period and upon full phase-in, is evaluated against the Basel III approach (Standardized or Advanced) which, for each quarter, results in the lower ratio as required by the Collins Amendment of the Dodd-Frank Act (the "Collins Floor"). The Basel III Standardized Fully Phased-In CET1 ratio is the Firm's current binding constraint, and the Firm expects that this will remain its binding constraint for the foreseeable future.

The Firm is subject to minimum capital ratios under Basel III rules and well-capitalized ratios under the regulations issued by the Federal Reserve and the Prompt Corrective Action ("PCA") requirements of the FDIC Improvement Act ("FDICIA"), respectively. For additional information, refer to Note 19.

The following tables present the Firm's Transitional and Fully Phased-In risk-based and leverage-based capital metrics under both the Basel III Standardized and Advanced Approaches. The Firm's Basel III ratios exceeded both the Transitional and Fully Phased-In regulatory minimums as of June 30, 2018 and December 31, 2017. For a further discussion of these capital metrics, including regulatory minimums, and the Standardized and Advanced Approaches, refer to Strategy and Governance on pages 84-88 of JPMorgan Chase's 2017 Annual Report.

		Transitional				
June 30, 2018 (in millions, except ratios)	Standardized	andardized Advanced ca		Standardized	Advanced	Minimum capital ratios
Risk-based capital metrics:						
CET1 capital	\$ 184,708	\$ 184,708		\$ 184,708	\$ 184,708	
Tier 1 capital	210,321	210,321		210,321	210,321	
Total capital	238,630	229,027		238,357	228,754	
Risk-weighted assets	1,543,370	1,438,747		1,543,370	1,438,747	
CET1 capital ratio	12.0%	12.8%	9.0%	12.0%	12.8%	10.5%
Tier 1 capital ratio	13.6	14.6	10.5	13.6	14.6	12.0
Total capital ratio	15.5	15.9	12.5	15.4	15.9	14.0
Leverage-based capital metrics:						
Adjusted average assets(a)	\$ 2,566,013	\$ 2,566,013		\$ 2,566,013	\$ 2,566,013	
Tier 1 leverage ratio	8.2%	8.2%	4.0%	8.2%	8.2%	4.0%
Total leverage exposure	NA	NA		NA	\$ 3,255,296	
SLR ^(b)	NA	NA	NA	NA	6.5%	5.0%

		Transitional		Fully Phased-In						
December 31, 2017 (in millions, except ratios)	Standardized	Advanced	Minimum capital ratios	Standardized	Advanced	Minimum capital ratios				
Risk-based capital metrics:	,									
CET1 capital	\$ 183,300	\$ 183,300		\$ 183,244	\$ 183,244					
Tier 1 capital	208,644	208,644		208,564	208,564					
Total capital	238,395	227,933		237,960	227,498					
Risk-weighted assets	1,499,506	1,435,825		1,509,762	1,446,696					
CET1 capital ratio	12.2%	12.8%	7.5%	12.1%	12.7%	10.5%				
Tier 1 capital ratio	13.9	14.5	9.0	13.8	14.4	12.0				
Total capital ratio	15.9	15.9	11.0	15.8	15.7	14.0				
Leverage-based capital metrics:										
Adjusted average assets(a)	\$ 2,514,270	\$ 2,514,270		\$ 2,514,822	\$ 2,514,822					
Tier 1 leverage ratio	8.3%	8.3%	4.0%	8.3%	8.3%	4.0%				
Total leverage exposure	NA	\$ 3,204,463		NA	\$ 3,205,015					
SLR ^(b)	NA	6.5%	NA	NA	6.5%	5.0%				

Note: As of June 30, 2018, and December 31, 2017, the lower of the Standardized or Advanced capital ratios under each of the Transitional and Fully Phased-In approaches in the table above represents the Firm's Collins Floor.

Recent regulatory developments

In April 2018, the Board of Governors of the Federal Reserve System ("FRB") proposed the introduction of a stress buffer framework that would create a single, integrated set of capital requirements by combining the supervisory stress test results of the CCAR assessment and those under the Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank Act Stress Test) with current point-in-time capital requirements. If the proposal is finalized in its current form, the new minimum capital requirements will become effective on October 1, 2019. In addition, in April 2018, the FRB and Office of the

Comptroller of the Currency released a proposal to revise the enhanced supplementary leverage ratio ("eSLR") requirements applicable to the U.S. global systemically important bank ("GSIBs") and their subsidiary insured depository institutions ("IDIs") and to make conforming changes to the Total Loss-Absorbing Capacity ("TLAC") and external long-term debt that satisfies certain eligibility criteria ("eligible LTD") requirements applicable to U.S. GSIBs. The Firm continues to evaluate the impact of these proposals.

⁽a) Adjusted average assets, for purposes of calculating the Tier 1 leverage ratio, includes total quarterly average assets adjusted for on-balance sheet assets that are subject to deduction from Tier 1 capital, predominantly goodwill and other intangible assets.

⁽b) Effective January 1, 2018, the SLR was fully phased-in under Basel III. The December 31, 2017, amounts were calculated under the Basel III Transitional rules.

Capital components

The following table presents reconciliations of total stockholders' equity to Basel III Fully Phased-In CET1 capital, Tier 1 capital and Total capital as of June 30, 2018 and December 31, 2017.

(in millions)	June 30, 2018	[December 31, 2017
Total stockholders' equity	\$ 257,458	\$	255,693
Less: Preferred stock	26,068		26,068
Common stockholders' equity	231,390		229,625
Less:			
Goodwill	47,488		47,507
Other intangible assets	806		855
Add:			
Deferred tax liabilities ^(a)	2,227		2,204
Less: Other CET1 capital adjustments	615		223
Standardized/Advanced Fully Phased-In CET1 capital	184,708		183,244
Preferred stock	26,068		26,068
Less: Other Tier 1 adjustments	455		748
Standardized/Advanced Fully Phased-In Tier 1 capital	\$ 210,321	\$	208,564
Long-term debt and other instruments qualifying as Tier 2 capital	\$ 13,537	\$	14,827
Qualifying allowance for credit losses	14,367		14,672
Other	132		(103)
Standardized Fully Phased-In Tier 2 capital	\$ 28,036	\$	29,396
Standardized Fully Phased-In Total capital	\$ 238,357	\$	237,960
Adjustment in qualifying allowance for credit losses for Advanced Tier 2 capital	(9,603)		(10,462)
Advanced Fully Phased-In Tier 2 capital	\$ 18,433	\$	18,934
Advanced Fully Phased-In Total capital	\$ 228,754	\$	227,498

⁽a) Represents certain deferred tax liabilities related to tax-deductible goodwill and identifiable intangibles created in nontaxable transactions, which are netted against goodwill and other intangibles when calculating TCE.

Capital rollforward

The following table presents the changes in Basel III Fully Phased-In CET1 capital, Tier 1 capital and Tier 2 capital for the six months ended June 30, 2018.

Six months ended June 30, (in millions)		2018
Standardized/Advanced CET1 capital at December 31, 2017	\$	183,244
Net income applicable to common equity		16,240
Dividends declared on common stock		(3,852)
Net purchase of treasury stock		(8,234)
Changes in additional paid-in capital		(1,187)
Changes related to AOCI		(796)
Adjustment related to DVA ^(a)		(586)
Changes related to other CET1 capital adjustments		(121)
Change in Standardized/Advanced CET1 capital		1,464
Standardized/Advanced CET1 capital at June 30, 2018	\$	184,708
Standardized/Advanced Tier 1 capital at December 31, 2017	\$	208,564
Change in CET1 capital		1,464
Net issuance of noncumulative perpetual preferred stock		_
Other		293
Change in Standardized/Advanced Tier 1 capital		1,757
Standardized/Advanced Tier 1 capital at June 30, 2018	\$	210,321
Standardized Tier 2 capital at December 31, 2017	\$	29,396
Change in long-term debt and other instruments qualifying as Tier 2		(1,290)
Change in qualifying allowance for credit losses		(305)
Other		235
Change in Standardized Tier 2 capital		(1,360)
Standardized Tier 2 capital at June 30, 2018	\$	28,036
Standardized Her E capital at June 30, 2010		
Standardized Total capital at June 30, 2018	\$	238,357
	\$	18,934
Standardized Total capital at June 30, 2018		
Standardized Total capital at June 30, 2018 Advanced Tier 2 capital at December 31, 2017 Change in long-term debt and other instruments qualifying		18,934
Standardized Total capital at June 30, 2018 Advanced Tier 2 capital at December 31, 2017 Change in long-term debt and other instruments qualifying as Tier 2		18,934 (1,290)
Standardized Total capital at June 30, 2018 Advanced Tier 2 capital at December 31, 2017 Change in long-term debt and other instruments qualifying as Tier 2 Change in qualifying allowance for credit losses		18,934 (1,290) 554
Standardized Total capital at June 30, 2018 Advanced Tier 2 capital at December 31, 2017 Change in long-term debt and other instruments qualifying as Tier 2 Change in qualifying allowance for credit losses Other		18,934 (1,290) 554 235

⁽a) Includes DVA related to structured notes recorded in AOCI.

RWA rollforward

The following table presents changes in the components of RWA under Basel III Standardized and Advanced Fully Phased-In for the six months ended June 30, 2018. The amounts in the rollforward categories are estimates, based on the predominant driver of the change.

	Standardized										
Six months ended June 30, 2018 (in millions)	Credit risk RWA	M	larket risk RWA		Total RWA		Credit risk RWA	Market risk RWA	Ор	erational risk RWA	Total RWA
At December 31, 2017	\$ 1,386,060	\$	123,702	\$	1,509,762	\$	922,905	\$ 123,791	\$	400,000	\$ 1,446,696
Model & data changes ^(a)	(652)		(1,100)		(1,752)		1,481	(1,100)		_	381
Portfolio runoff ^(b)	(5,416)		_		(5,416)		(6,484)	_		_	(6,484)
Movement in portfolio levels(c)	44,960		(4,184)		40,776		14,727	(4,073)		(12,500)	(1,846)
Changes in RWA	38,892		(5,284)		33,608		9,724	(5,173)		(12,500)	(7,949)
June 30, 2018	\$ 1,424,952	\$	118,418	\$	1,543,370	\$	932,629	\$ 118,618	\$	387,500	\$ 1,438,747

- (a) Model & data changes refer to movements in levels of RWA as a result of revised methodologies and/or treatment per regulatory guidance (exclusive of rule changes).
- (b) Portfolio runoff for credit risk RWA primarily reflects reduced risk from position rolloffs in legacy portfolios in Home Lending.
- (c) Movement in portfolio levels refers to: changes in book size, composition, credit quality, and market movements for credit risk RWA; changes in position and market movements for market risk RWA; and an update to cumulative losses for operational risk RWA.

Supplementary leverage ratio

The SLR is defined as Tier 1 capital under Basel III divided by the Firm's total leverage exposure. For additional information, refer to Capital Risk Management on page 88 of JPMorgan Chase's 2017 Annual Report.

The following table presents the components of the Firm's Fully Phased-In SLR as of June 30, 2018 and December 31, 2017.

(in millions, except ratio)	June 30, 2018	December 31, 2017
Tier 1 capital	\$ 210,321	\$ 208,564
Total average assets	2,612,969	2,562,155
Less: Adjustments for deductions from Tier 1 capital	46,956	47,333
Total adjusted average assets ^(a)	2,566,013	2,514,822
Off-balance sheet exposures(b)	689,283	690,193
Total leverage exposure	\$ 3,255,296	\$ 3,205,015
SLR	6.5%	6.5%

- (a) Adjusted average assets, for purposes of calculating the SLR, includes total quarterly average assets adjusted for on-balance sheet assets that are subject to deduction from Tier 1 capital, predominantly goodwill and other intangible assets.
- (b) Off-balance sheet exposures are calculated as the average of the three month-end spot balances during the quarter.

As of June 30, 2018, JPMorgan Chase Bank, N.A.'s and Chase Bank USA, N.A.'s Fully Phased-In SLRs were approximately 6.7% and 13.1%, respectively.

Line of business equity

Each business segment is allocated capital by taking into consideration stand-alone peer comparisons and regulatory capital requirements. For additional information, refer to page 88 of JPMorgan Chase's 2017 Annual Report.

The following table represents the capital allocated to each business segment:

(in billions)	June 30, 2018	Dec	cember 31, 2017
Consumer & Community Banking	\$ 51.0	\$	51.0
Corporate & Investment Bank	70.0		70.0
Commercial Banking	20.0		20.0
Asset & Wealth Management	9.0		9.0
Corporate	81.4		79.6
Total common stockholders' equity	\$ 231.4	\$	229.6

Planning and stress testing

Comprehensive Capital Analysis and Review
The Federal Reserve requires large bank holding
companies, including the Firm, to submit a capital plan on
an annual basis. Through the CCAR process, the Federal
Reserve evaluates each bank holding company's ("BHC")
capital adequacy and internal capital adequacy assessment
processes, as well as its plans to make capital distributions,
such as dividend payments or stock repurchases.

On June 28, 2018, the Federal Reserve informed the Firm that it did not object, on either a quantitative or qualitative basis, to the Firm's 2018 capital plan.

Capital actions

Preferred stock

Preferred stock dividends declared were \$788 million for the six months ended June 30, 2018.

Common stock dividends

The current quarter common stock dividend was \$0.56 per share. On June 28, 2018, the Firm announced that its Board of Directors intends to increase the quarterly common stock dividend to \$0.80 per share, effective the third quarter of 2018. The Firm's dividends are subject to the Board of Directors' approval on a quarterly basis.

Common equity

Effective as of June 28, 2018, the Firm's Board of Directors authorized the repurchase of up to \$20.7 billion of common equity (common stock and warrants) between July 1, 2018 and June 30, 2019, as part of its annual capital plan.

The following table sets forth the Firm's repurchases of common equity for the three and six months ended June 30, 2018 and 2017. There were no repurchases of warrants during the three and six months ended June 30, 2018 and 2017.

	Tł	ree months June 30		Six months June 3	
(in millions)		2018	2017	2018	2017
Total shares of common stock repurchased		45.3	35.0	86.7	67.1
Aggregate common stock repurchases	\$	4,968 \$	3,007	\$ 9,639 \$	5,839

For additional information regarding repurchases of the Firm's equity securities, refer to Part II, Item 2: Unregistered Sales of Equity Securities and Use of Proceeds and Part II, Item 5: Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities on page 180 of this Form 10-Q and page 28 of JPMorgan Chase's 2017 Form 10-K, respectively.

There were 12.1 million and 15.0 million warrants outstanding at June 30, 2018 and December 31, 2017, respectively.

Other capital requirements

TLAC

The Federal Reserve's TLAC rule requires the top-tier U.S. GSIB holding companies, including the Firm, to maintain minimum levels of external TLAC and eligible LTD effective January 1, 2019.

As of June 30, 2018, the Firm was compliant with the requirements of the rule to which it will be subject on January 1, 2019. For additional information, refer to page 90 of JPMorgan Chase's 2017 Annual Report.

Broker-dealer regulatory capital

J.P. Morgan Securities

JPMorgan Chase's principal U.S. broker-dealer subsidiary is J.P. Morgan Securities. J.P. Morgan Securities is subject to Rule 15c3-1 under the Securities Exchange Act of 1934 (the "Net Capital Rule"). J.P. Morgan Securities is also registered as a futures commission merchant and subject to Rule 1.17 of the Commodity Futures Trading Commission ("CFTC").

J.P. Morgan Securities has elected to compute its minimum net capital requirements under the "Alternative Net Capital Requirements" of the Net Capital Rule.

Under the market and credit risk standards of Appendix E of the Net Capital Rule, J.P. Morgan Securities is eligible to use the alternative method of computing net capital if, in addition to meeting its minimum net capital requirement, it maintains tentative net capital of at least \$1.0 billion. J.P. Morgan Securities is required to notify the Securities and Exchange Commission ("SEC") in the event that tentative net capital is less than \$5.0 billion. As of June 30, 2018, J.P. Morgan Securities maintained tentative net capital in excess of the minimum and notification requirements.

The following table presents J.P. Morgan Securities' net capital information:

June 30, 2018	Net Capital							
(in millions)		Actual		Minimum				
J.P. Morgan Securities	\$	16,649	\$	2,888				

J.P. Morgan Securities plc

J.P. Morgan Securities plc is a wholly-owned subsidiary of JPMorgan Chase Bank, N.A. and is the Firm's principal operating subsidiary in the U.K. It has authority to engage in banking, investment banking and broker-dealer activities. J.P. Morgan Securities plc is jointly regulated by the U.K. Prudential Regulatory Authority ("PRA") and the Financial Conduct Authority ("FCA"). J.P. Morgan Securities plc is subject to the European Union Capital Requirements Regulation and the U.K. PRA capital rules, each of which implemented Basel III and thereby subject J.P. Morgan Securities plc to its requirements.

The following table presents J.P. Morgan Securities plc's capital information:

June 30, 2018	Total capital	CET1	ratio	Total capital ratio		
(in millions, except ratios)	Estimated	Estimated	Minimum	Estimated	Minimum	
J.P. Morgan Securities plc	\$ 40,269	15.9%	4.5%	15.9%	8.0%	

LIQUIDITY RISK MANAGEMENT

Liquidity risk is the risk that the Firm will be unable to meet its contractual and contingent financial obligations as they arise or that it does not have the appropriate amount, composition and tenor of funding and liquidity to support its assets and liabilities. For a further discussion of the Firm's Liquidity Risk Management, refer to pages 92-97 of JPMorgan Chase's 2017 Annual Report and the Firm's US LCR Disclosure reports, which are available on the Firm's website at: (https://investor.shareholder.com/jpmorganchase/basel.cfm).

LCR and **HQLA**

The LCR rule requires the Firm to maintain an amount of unencumbered HQLA that is sufficient to meet its estimated total net cash outflows over a prospective 30 calendar-day period of significant stress. HQLA is the amount of liquid assets that qualify for inclusion in the LCR. HQLA primarily consist of unencumbered cash and certain high quality liquid securities as defined in the LCR rule.

Under the LCR rule, the amount of HQLA held by JPMorgan Chase Bank N.A. and Chase Bank USA, N.A that are in excess of each entity's standalone 100% minimum LCR requirement, and that are not transferable to non-bank affiliates, must be excluded from the Firm's reported HQLA. The LCR is required to be a minimum of 100%.

The following table summarizes the Firm's average LCR for the three months ended June 30, 2018, March 31, 2018 and June 30, 2017 based on the Firm's current interpretation of the finalized LCR framework.

	Three months ended											
Average amount (in billions)	ne 30, 2018		arch 31, 2018	June 30, 2017								
HQLA												
Eligible cash ^(a)	\$ 363	\$	358	378								
Eligible securities(b)(c)	166		181	163								
Total HQLA ^(d)	\$ 529	\$	539	541								
Net cash outflows	\$ 458		468	469								
LCR	115%	ó	115%	115%								
Net excess HQLA (d)	\$ 71		71	72								

- (a) Represents cash on deposit at central banks, primarily Federal Reserve Banks.
- (b) Predominantly U.S. Treasuries, U.S. Agency MBS, and sovereign bonds net of applicable haircuts under the LCR rules.
- (c) HQLA eligible securities may be reported in securities borrowed or purchased under resale agreements, trading assets, or investment securities on the Firm's Consolidated balance sheets.
- (d) Excludes average excess HQLA at JPMorgan Chase Bank, N.A. and Chase Bank USA, N.A. that are not transferable to non-bank affiliates.

The Firm's average LCR may fluctuate from period to period, due to changes in its HQLA and estimated net cash outflows under the LCR as a result of ongoing business activity. The Firm's HQLA are expected to be available to meet its liquidity needs in a time of stress.

Other liquidity sources

As of June 30, 2018, in addition to assets reported in the Firm's HQLA under the LCR rule, the Firm had approximately \$215 billion of unencumbered marketable securities, such as equity securities and fixed income debt securities, available to raise liquidity, if required. This includes HQLA-eligible securities included as part of the excess liquidity at JPMorgan Chase Bank, N.A. that are not transferable to nonbank affiliates.

As of June 30, 2018, the Firm also had approximately \$292 billion of available borrowing capacity at various Federal Home Loan Banks ("FHLBs"), discount windows at Federal Reserve Banks and various other central banks as a result of collateral pledged by the Firm to such banks. This borrowing capacity excludes the benefit of securities reported in the Firm's HQLA or other unencumbered securities that are currently pledged at Federal Reserve Bank discount windows. Although available, the Firm does not view the borrowing capacity at the Federal Reserve Bank discount windows and the various other central banks as a primary source of liquidity.

Funding

Sources of funds

Management believes that the Firm's unsecured and secured funding capacity is sufficient to meet its on- and off-balance sheet obligations.

The Firm funds its global balance sheet through diverse sources of funding including a stable deposit franchise as well as secured and unsecured funding in the capital markets. The Firm's loan portfolio is funded with a portion of the Firm's deposits, through securitizations and, with respect to a portion of the Firm's real estate-related loans, with secured borrowings from the FHLBs. Deposits in excess of the amount utilized to fund loans are primarily invested in the Firm's investment securities portfolio or deployed in cash or other short-term liquid investments based on their interest rate and liquidity risk characteristics. Securities borrowed or purchased under resale agreements and trading assets-debt and equity instruments are primarily funded by the Firm's securities loaned or sold under agreements to repurchase, trading liabilities-debt and equity instruments, and a portion of the Firm's long-term debt and stockholders' equity. In addition to funding securities borrowed or purchased under resale agreements and trading assets-debt and equity instruments, proceeds from the Firm's debt and equity issuances are used to fund certain loans and other financial and non-financial assets. or may be invested in the Firm's investment securities portfolio. Refer to the discussion below for additional information relating to Deposits, Short-term funding, and Long-term funding and issuance.

Deposits

The table below summarizes, by line of business, the deposit balances as of June 30, 2018, and December 31, 2017, and the average deposit balances for the three and six months ended June 30, 2018 and 2017, respectively.

					hree months end	ed June 30,	Six months ended June 30,				
Deposits	June 30.	D	ecember 31.		Average			Average			
(in millions)	2018	/			2018	2017		2018	2017		
Consumer & Community Banking	\$ 679,154	\$	659,885	\$	673,761 \$	639,873	\$	666,719 \$	631,441		
Corporate & Investment Bank	475,761		455,883		475,697	442,387		470,788	434,968		
Commercial Banking	165,170		181,512		170,665	173,081		173,081	174,843		
Asset & Wealth Management	131,511		146,407		139,557	150,786		141,865	154,776		
Corporate	526		295		815	4,002		839	4,870		
Total Firm	\$ 1,452,122	\$	1,443,982	\$	1,460,495 \$	1,410,129	\$	1,453,292 \$	1,400,898		

A key strength of the Firm is its diversified deposit franchise, through each of its lines of business, which provides a stable source of funding and limits reliance on the wholesale funding markets. A significant portion of the Firm's deposits are consumer and wholesale operating deposits, which are both considered to be stable sources of liquidity. Wholesale operating deposits are considered to be stable sources of liquidity because they are generated from customers that maintain operating service relationships with the Firm.

The table below shows the loan and deposit balances, the loans-to-deposits ratios, and deposits as a percentage of total liabilities, as of June 30, 2018 and December 31, 2017.

(in billions except ratios)	June 30, 2018	De	cember 31, 2017
Deposits	\$ 1,452.1	\$	1,444.0
Deposits as a % of total liabilities	62%		63%
Loans	\$ 948.4	\$	930.7
Loans-to-deposits ratio	65%		64%

Deposits increased from December 31, 2017, due to higher deposits in the consumer business reflecting the continuation of growth from new and existing customers and low attrition rates in CCB, partially offset by balance migration as customers shift from deposits largely into the Firm's investment-related products; and in the wholesale business reflecting an increase in CIB's Treasury Services business driven by growth in client activity. The increase was partially offset by declines in the other wholesale businesses primarily driven by the impact of seasonality in CB and AWM, and balance migration in AWM predominantly into the Firm's investment-related products.

Average deposits increased for the three and six months ended June 30, 2018, due to higher deposits in the consumer business and in CIB, partially offset by declines in AWM and Corporate. Drivers of the changes in average balances for these businesses are generally consistent with the drivers of the changes in the period-end balances described above. The decline in average Corporate deposits was predominantly due to maturities of wholesale nonoperating deposits, which are consistent with the Firm's efforts to reduce such products. The Firm believes average deposit balances are generally more representative of deposit trends than period-end deposit balances. For further information on deposit and liability balance trends, refer to the discussion of the Firm's Business Segment Results and the Consolidated Balance Sheets Analysis on pages 18-40 and pages 11-13, respectively.

The following table summarizes short-term and long-term funding, excluding deposits, as of June 30, 2018, and December 31, 2017, and average balances for the three and six months ended June 30, 2018 and 2017, respectively. For additional information, refer to the Consolidated Balance Sheets Analysis on pages 11–13 and Note 10.

				Th	ree months end	led June 30,	S	ix months er	nded	June 30,
Sources of funds (excluding deposits)	lune 30,	De	cember 31,		Averag	е		Avei	rage	
(in millions)	2018	2017			2018	2017		2018		2017
Commercial paper	\$ 28,049		24,186	\$	27,143 \$	19,466	\$	26,571	\$	16,432
Other borrowed funds	35,869		27,616		35,196	23,693		33,413		23,427
Total short-term borrowings	\$ 63,918	\$	51,802	\$	62,339 \$	43,159	\$	59,984	\$	39,859
Obligations of Firm-administered multi-seller conduits ^(a)	\$ 2,969	\$	3,045	\$	2,993 \$	2,750	\$	3,054	\$	3,557
Securities loaned or sold under agreements to repurchase:										
Securities sold under agreements to repurchase(b)	\$ 164,691	\$	147,713	\$	178,064 \$	180,512	\$	181,212	\$	177,389
Securities loaned ^(b)	9,809		9,211		13,058	14,752		11,799		14,602
Total securities loaned or sold under agreements to repurchase ^{(b)(c)(d)}	\$ 174,500	\$	156,924	\$	191,122 \$	195,264	\$	193,011	\$	191,991
Senior notes	\$ 151,244	\$	155,852	\$	151,047 \$	153,661	\$	150,635	\$	151,557
Trust preferred securities ^(e)	682		690		684	2,340		686		2,342
Subordinated debt ^(e)	15,963		16,553		16,010	20,546		16,120		20,857
Structured notes	48,036		45,727		48,674	42,957		47,842		40,941
Total long-term unsecured funding	\$ 215,925	\$	218,822	\$	216,415 \$	219,504	\$	215,283	\$	215,697
Credit card securitization ^(a)	\$ 16,505	\$	21,278	\$	16,181 \$	27,034	\$	17,416	\$	28,226
Other securitizations ^{(a)(f)}	_		_		-	1,003		_		1,262
Federal Home Loan Bank ("FHLB") advances	52,162		60,617		54,232	73,053		57,291		75,155
Other long-term secured funding ^(g)	5,027		4,641		4,998	3,311		4,741		3,204
Total long-term secured funding	\$ 73,694	\$	86,536	\$	75,411 \$	104,401	\$	79,448	\$	107,847
Preferred stock ^(h)	\$ 26,068	\$	26,068	\$	26,068 \$	26,068	\$	26,068	\$	26,068
Common stockholders' equity ^(h)	\$ 231,390	\$	229,625	\$	228,901 \$	230,200	\$	228,261	\$	228,959

- (a) Included in beneficial interests issued by consolidated variable interest entities on the Firm's Consolidated balance sheets.
- (b) The prior period amounts have been revised to conform with the current period presentation.
- (c) Primarily consists of short-term securities loaned or sold under agreements to repurchase.
- (d) Excludes federal funds purchased.
- (e) Subordinated debt includes \$1.6 billion of junior subordinated debentures distributed pro rata to the holders of trust preferred securities which were cancelled on December 18, 2017. For further information refer to Note 19 of JPMorgan Chase's 2017 Annual Report.
- (f) Other securitizations include securitizations of student loans. The Firm deconsolidated the student loan securitization entities in the second quarter of 2017 as it no longer had a controlling financial interest in these entities as a result of the sale of the student loan portfolio. The Firm's wholesale businesses also securitize loans for client-driven transactions, which are not considered to be a source of funding for the Firm and are not included in the table.
- (g) Includes long-term structured notes which are secured.
- (h) For additional information on preferred stock and common stockholders' equity refer to Capital Risk Management on pages 43-47, Consolidated statements of changes in stockholders' equity, and Note 20 and Note 21 of JPMorgan Chase's 2017 Annual Report.

Short-term funding

The Firm's sources of short-term secured funding primarily consist of securities loaned or sold under agreements to repurchase. These instruments are secured predominantly by high-quality securities collateral, including government-issued debt and agency MBS, and constitute a significant portion of the federal funds purchased and securities loaned or sold under repurchase agreements on the Consolidated balance sheets. The increase at June 30, 2018, from December 31, 2017, reflected higher secured financing of trading assets-debt and equity instruments, partially offset by a change in the mix of funding to short-term borrowings in CIB.

The balances associated with securities loaned or sold under agreements to repurchase fluctuate over time due to customers' investment and financing activities; the Firm's demand for financing; the ongoing management of the mix of the Firm's liabilities, including its secured and unsecured financing (for both the investment securities and marketmaking portfolios); and other market and portfolio factors.

The Firm's sources of short-term unsecured funding primarily consist of issuance of wholesale commercial paper. The increase in commercial paper was due to higher net issuance.

Long-term funding and issuance

Long-term funding provides additional sources of stable funding and liquidity for the Firm. The Firm's long-term funding plan is driven primarily by expected client activity, liquidity considerations, and regulatory requirements, including TLAC. Long-term funding objectives include maintaining diversification, maximizing market access and optimizing funding costs. The Firm evaluates various funding markets, tenors and currencies in creating its optimal long-term funding plan.

The significant majority of the Firm's long-term unsecured funding is issued by the Parent Company to provide maximum flexibility in support of both bank and nonbank subsidiary funding needs. The Parent Company advances substantially all net funding proceeds to its subsidiary, the Intermediate Holding Company ("IHC"). The IHC does not issue debt to external counterparties. The following table summarizes long-term unsecured issuance and maturities or redemptions for the three and six months ended June 30, 2018 and 2017. For additional information on the IHC and long-term debt, refer to Liquidity Risk Management and Note 19 of JPMorgan Chase's 2017 Annual Report.

Long-term unsecured funding

	Th	nree mor June			hs ended 30,
(in millions)		2018	2017	2018	2017
Issuance					
Senior notes issued in the U.S. $market^{(a)}$	\$	10,470	\$ 8,218	\$ 18,451	\$ 14,681
Senior notes issued in non- U.S. markets		1,170	2,210	1,170	2,210
Total senior notes		11,640	10,428	19,621	16,891
Subordinated debt		-	-	_	-
Structured notes		8,095	8,160	15,883	16,594
Total long-term unsecured funding - issuance	\$	19,735	\$ 18,588	\$ 35,504	\$ 33,485
Maturities/redemptions					
Senior notes	\$	6,827	\$ 3,615	\$ 20,951	\$ 14,042
Trust preferred securities		-	-	-	-
Subordinated debt		_	2,011	-	3,006
Structured notes		4,986	7,043	10,513	12,373
Total long-term unsecured funding - maturities/ redemptions	\$	11,813	\$ 12,669	\$ 31,464	\$ 29,421

⁽a) The prior period amounts have been revised to conform with the current period presentation.

The Firm raises secured long-term funding through securitization of consumer credit card loans and advances from the FHLBs. The following table summarizes the securitization issuance and FHLB advances and their respective maturities or redemptions for the three and six months ended June 30, 2018 and 2017, respectively.

Long-term secured funding

		Thr	ee months e	ende	ed June 30,			Six months ended June 30,							
	 Issuance Maturities/Redemptions					Issuance				N	Maturities/Redemptions				
(in millions)	 2018		2017		2018	2	2017		2018		2017		2018		2017
Credit card securitization	\$ 1,396	\$	-	\$	1,725 \$	\$	3,016	\$	1,396	\$	1,545	\$	6,125	\$	7,006
Other securitizations ^(a)	_		-		_		_		-		_		_		55
FHLB advances	-		-		4,702		5,852		4,000		_		12,453		11,054
Other long-term secured funding $^{(b)(c)}$	74		434		6		80		195		537		22		124
Total long-term secured funding	\$ 1,470	\$	434	\$	6,433 \$	\$	8,948	\$	5,591	\$	2,082	\$	18,600	\$	18,239

⁽a) Other securitizations includes securitizations of student loans. The Firm deconsolidated the student loan securitization entities in the second quarter of 2017 as it no longer had a controlling financial interest in these entities as a result of the sale of the student loan portfolio.

The Firm's wholesale businesses also securitize loans for client-driven transactions; those client-driven loan securitizations are not considered to be a source of funding for the Firm and are not included in the table above. For further description of the client-driven loan securitizations, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

⁽b) Includes long-term structured notes which are secured.

⁽c) The prior period amounts have been revised to conform with the current period presentation.

Credit ratings

The cost and availability of financing are influenced by credit ratings. Reductions in these ratings could have an adverse effect on the Firm's access to liquidity sources, increase the cost of funds, trigger additional collateral or funding requirements and decrease the number of investors and counterparties willing to lend to the Firm.

Additionally, the Firm's funding requirements for VIEs and other third-party commitments may be adversely affected by a decline in credit ratings. For additional information on the impact of a credit ratings downgrade on the funding requirements for VIEs, and on derivatives and collateral agreements, refer to SPEs on page 14, and Liquidity risk and credit-related contingent features in Note 4.

The credit ratings of the Parent Company and the Firm's principal bank and nonbank subsidiaries as of June 30, 2018, were as follows.

	JPM	lorgan Chase &	Co.		gan Chase Banl se Bank USA, N		J.P. Morgan Securities LLC J.P. Morgan Securities plc			
June 30, 2018	Long-term issuer	Short-term issuer	Outlook	Long-term issuer	Short-term issuer	Outlook	Long-term issuer	Short-term issuer	Outlook	
Moody's Investors Service	А3	P-2	Stable	Aa3	P-1	Stable	A1	P-1	Stable	
Standard & Poor's	A-	A-2	Stable	A+	A-1	Stable	A+	A-1	Stable	
Fitch Ratings	AA-	F1+	Stable	AA	F1+	Stable	AA	F1+	Stable	

On June 21, 2018, Fitch upgraded the Parent Company's long term issuer rating to AA- (previously A+) and short term issuer rating to F1+ (previously F1). The long term issuer ratings were also upgraded to AA for JPMorgan Chase Bank, N.A, Chase Bank USA, N.A., J.P. Morgan Securities LLC and J.P. Morgan Securities plc (all previously AA-).

Downgrades of the Firm's long-term ratings by one or two notches could result in an increase in its cost of funds, and access to certain funding markets could be reduced. The nature and magnitude of the impact of ratings downgrades depends on numerous contractual and behavioral factors which the Firm believes are incorporated in its liquidity risk and stress testing metrics. The Firm believes that it maintains sufficient liquidity to withstand a potential decrease in funding capacity due to ratings downgrades.

JPMorgan Chase's unsecured debt does not contain requirements that would call for an acceleration of payments, maturities or changes in the structure of the existing debt, provide any limitations on future borrowings or require additional collateral, based on unfavorable changes in the Firm's credit ratings, financial ratios, earnings, or stock price.

Critical factors in maintaining high credit ratings include a stable and diverse earnings stream, strong capital ratios, strong credit quality and risk management controls, diverse funding sources, and disciplined liquidity monitoring procedures. Rating agencies continue to evaluate economic and geopolitical trends, regulatory developments, future profitability, risk management practices, and litigation matters, as well as their broader ratings methodologies. Changes in any of these factors could lead to changes in the Firm's credit ratings.

CREDIT AND INVESTMENT RISK MANAGEMENT

Credit and investment risk is the risk associated with the default or change in credit profile of a client, counterparty or customer; or loss of principal or a reduction in expected returns on investments. For a further discussion of Credit Risk refer to pages 53-70. For a further discussion on Investment Portfolio Risk, refer to page 70. For a further discussion of the Firm's Credit and Investment Risk Management framework and organization, and the identification, monitoring and management, refer to Credit and Investment Risk Management on pages 99-120 of JPMorgan Chase's 2017 Annual Report.

CREDIT PORTFOLIO

Credit risk is the risk associated with the default or change in credit profile of a client, counterparty or customer.

In the following tables, reported loans include loans retained (i.e., held-for-investment); loans held-for-sale; and certain loans accounted for at fair value. The following tables do not include loans which the Firm accounts for at fair value and classifies as trading assets. For further information regarding these loans, refer to Notes 2 and 3. For additional information on the Firm's loans, lending-related commitments and derivative receivables, including the Firm's accounting policies, refer to Notes 11, 20, and 4, respectively.

For further information regarding the credit risk inherent in the Firm's cash placed with banks, refer to Wholesale credit exposure – industry exposures on pages 62–64; for information regarding the credit risk inherent in the Firm's investment securities portfolio, refer to Note 9 of this Form 10-Q, and Note 10 of JPMorgan Chase's 2017 Annual Report; and for information regarding the credit risk inherent in the securities financing portfolio, refer to Note 10 of this Form 10-Q, and Note 11 of JPMorgan Chase's 2017 Annual Report.

For a further discussion of the consumer credit environment and consumer loans, refer to Consumer Credit Portfolio on pages 102-107 of JPMorgan Chase's 2017 Annual Report and Note 11 of this Form 10-Q. For a further discussion of the wholesale credit environment and wholesale loans, refer to Wholesale Credit Portfolio on pages 108-116 of JPMorgan Chase's 2017 Annual Report and Note 11 of this Form 10-Q.

Total credit portfolio

iotal credit portro	110							
		Credit e	хро	sure	N	Ionperfo	rmi	ng ^{(d)(e)}
(in millions)		Jun 30, 2018		Dec 31, 2017		Jun 30, 2018		Dec 31, 2017
Loans retained	\$	940,440	\$	924,838	\$	5,135	\$	5,943
Loans held-for-sale		4,898		3,351		175		_
Loans at fair value		3,076		2,508				
Total loans - reported		948,414		930,697		5,310		5,943
Derivative receivables		58,510		56,523		112		130
Receivables from customers and other ^(a)		27,607		26,272		_		_
Total credit-related assets	1	,034,531	1	,013,492		5,422		6,073
Assets acquired in loan satisfactions								
Real estate owned		NA		NA		312		311
Other		NA		NA		33		42
Total assets acquired in loan satisfactions		NA		NA		345		353
Lending-related commitments	1	,045,993		991,482		712		731
Total credit portfolio	\$ 2	,080,524	\$ 2	,004,974	\$	6,479	\$	7,157
Credit derivatives used in credit portfolio management activities ^(b)	\$	(15,229)	\$	(17,609)	\$	_	\$	_
Liquid securities and other cash collateral held against derivatives ^(c)		(16,103)		(16,108)		NA		NA

(in millions.		Three moi			Six months ended June 30,					
except ratios)		2018		2017		2017		2018		2017
Net charge-offs ^(f)	\$	\$ 1,252		\$ 1,204		2,587	\$	2,858		
Average retained loans										
Loans	9	932,042		892,840		26,268	8	89,229		
Loans - excluding residential real estate PCI loans	9	03,263	8	59,102	8	96,856	8	54,842		
Net charge-off rates(f)										
Loans		0.54%	,	0.54%		0.56%		0.65%		
Loans - excluding PCI		0.56		0.56		0.58		0.67		

- (a) Receivables from customers and other primarily represents held-forinvestment margin loans to brokerage customers.
- (b) Represents the net notional amount of protection purchased and sold through credit derivatives used to manage both performing and nonperforming wholesale credit exposures; these derivatives do not qualify for hedge accounting under U.S. GAAP. For additional information, refer to Credit derivatives on page 66 and Note 4.
- (c) Includes collateral related to derivative instruments where an appropriate legal opinion has not been either sought or obtained.
- (d) Excludes PCI loans. The Firm is recognizing interest income on each pool of PCI loans as each of the pools is performing.
- (e) At June 30, 2018, and December 31, 2017, nonperforming assets excluded mortgage loans 90 or more days past due and insured by U.S. government agencies of \$3.3 billion and \$4.3 billion, respectively, and real estate owned ("REO") insured by U.S. government agencies of \$84 million and \$95 million, respectively. These amounts have been excluded based upon the government guarantee. In addition, the Firm's policy is generally to exempt credit card loans from being placed on nonaccrual status as permitted by regulatory guidance issued by the Federal Financial Institutions Examination Council ("FFIEC").
- (f) For the six months ended June 30, 2017, excluding net charge-offs of \$467 million related to the student loan portfolio transfer, the net charge-off rate for Loans would have been 0.54% and for Loans excluding PCI would have been 0.56%.

CONSUMER CREDIT PORTFOLIO

The Firm's retained consumer portfolio consists primarily of residential real estate loans, credit card loans, auto loans, and business banking loans, as well as associated lending-related commitments. The Firm's focus is on serving primarily the prime segment of the consumer credit market. For further information on consumer loans, refer to Note 11 of this Form

10-Q and Consumer Credit Portfolio on pages 102-107 and Note 12 of JPMorgan Chase's 2017 Annual Report. For further information on lending-related commitments, refer to Note 20 of this Form 10-Q and Note 27 of JPMorgan Chase's 2017 Annual Report.

The following table presents consumer credit-related information with respect to the credit portfolio held by CCB, prime mortgage and home equity loans held by AWM, and prime mortgage loans held by Corporate. For further information about the Firm's nonaccrual and charge-off accounting policies, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

Consumer credit portfolio

					Thre	ee months	ended June	30,		Six months	ended June 30	,
	Credit e	xposure		ccrual 1S ^{(i)(j)}	Ne charge (recove	-offs/	Average net char (recoveries	ge-off/	Charge (recove		Average a net charge (recoveries) i	e-off/
(in millions, except ratios)	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017	2018	2017	2018	2017	2018	2017	2018	2017
Consumer, excluding credit card												
Loans, excluding PCI loans and loans held-for-sale												
Residential mortgage	\$ 225,864	\$ 216,496	\$ 2,101	\$ 2,175	\$ (151)	\$ (3)	(0.27)%	(0.01)%	\$ (151)	\$ -	(0.14)%	-%
Home equity	30,460	33,450	1,481	1,610	(7)	9	(0.09)	0.10	10	58	0.06	0.31
Auto ^{(a)(b)}	65,014	66,242	124	141	50	48	0.31	0.29	126	129	0.39	0.40
Consumer & Business Banking(b)(c)	26,272	25,789	273	283	50	56	0.77	0.91	103	113	0.80	0.93
Student ^(d)	_	_	_	_	_	_	_	_	_	498	_	NM
Total loans, excluding PCI loans and loans held-for-sale	347,610	341,977	3,979	4,209	(58)	110	(0.07)	0.13	88	798	0.05	0.49
Loans - PCI												
Home equity	9,849	10,799	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Prime mortgage	5,437	6,479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Subprime mortgage	2,249	2,609	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Option ARMs ^(e)	9,442	10,689	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total loans - PCI	26,977	30,576	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total loans - retained	374,587	372,553	3,979	4,209	(58)	110	(0.06)	0.12	88	798	0.05	0.44
Loans held-for-sale	110	128	_		_	_	_	-	_	_	_	
Total consumer, excluding credit card loans	374,697	372,681	3,979	4,209	(58)	110	(0.06)	0.12	88	798	0.05	0.44
Lending-related commitments(f)	51,784	48,553										
Receivables from customers ^(g)	153	133										
Total consumer exposure, excluding credit card	426,634	421,367										
Credit card												
Loans retained ^(h)	145,221	149,387	-	-	1,164	1,037	3.27	3.01	2,334	2,030	3.30	2.98
Loans held-for-sale	34	124	-	-	_	_	-	-	_	_	_	-
Total credit card loans	145,255	149,511	-	_	1,164	1,037	3.27	3.01	2,334	2,030	3.30	2.98
Lending-related commitments(f)	592,452	572,831				-					'	
Total credit card exposure	737,707	722,342										
Total consumer credit portfolio	\$1,164,341	\$1,143,709	\$ 3,979	\$ 4,209	\$ 1,106	\$1,147	0.86 %	0.92 %	\$ 2,422	\$2,828	0.95 %	1.14%
Memo: Total consumer credit portfolio, excluding PCI	\$1,137,364	\$1,113,133	\$ 3,979	\$ 4,209	\$ 1,106	\$1,147	0.91 %	0.99 %	\$ 2,422	\$2,828	1.00 %	1.22%

⁽a) At June 30, 2018, and December 31, 2017, excluded operating lease assets of \$18.8 billion and \$17.1 billion, respectively. These operating lease assets are included in other assets on the Firm's Consolidated balance sheets. The risk of loss on these assets relates to the residual value of the leased vehicles, which is managed through projection of the lease residual value at lease origination, periodic review of residual values, and through arrangements with certain auto manufacturers that mitigates this risk.

⁽b) Includes certain business banking and auto dealer risk-rated loans that apply the wholesale methodology for determining the allowance for loan losses; these loans are managed by CCB, and therefore, for consistency in presentation, are included within the consumer portfolio.

⁽c) Predominantly includes Business Banking loans.

⁽d) For the six months ended June 30, 2017, excluding net charge-offs of \$467 million related to the student loan portfolio sale, the net charge-off rate for Total consumer, excluding credit card and PCI loans and loans held-for-sale would have been 0.20%; Total consumer - retained excluding credit card loans would have been 0.18%; Total consumer credit portfolio would have been 0.95%; and Total consumer credit portfolio, excluding PCI loans would have been 1.02%.

⁽e) At both June 30, 2018, and December 31, 2017, approximately 68% of the PCI option adjustable rate mortgage ("ARM") portfolio has been modified into fixed-rate, fully amortizing loans.

- (f) Credit card and home equity lending-related commitments represent the total available lines of credit for these products. The Firm has not experienced, and does not anticipate, that all available lines of credit would be used at the same time. For credit card commitments, and if certain conditions are met, home equity commitments, the Firm can reduce or cancel these lines of credit by providing the borrower notice or, in some cases as permitted by law, without notice. For further information, refer to Note 20.
- (g) Receivables from customers represent held-for-investment margin loans to brokerage customers that are collateralized through assets maintained in the clients' brokerage accounts. These receivables are reported within accrued interest and accounts receivable on the Firm's Consolidated balance sheets.
- (h) Includes hilled interest and fees net of an allowance for uncollectible interest and fees
- (i) At June 30, 2018 and December 31, 2017, nonaccrual loans excluded mortgage loans 90 or more days past due and insured by U.S. government agencies of \$3.3 billion and \$4.3 billion, respectively. These amounts have been excluded from nonaccrual loans based upon the government guarantee. In addition, the Firm's policy is generally to exempt credit card loans from being placed on nonaccrual status, as permitted by regulatory guidance issued by the FFIEC.
- (j) Excludes PCI loans. The Firm is recognizing interest income on each pool of PCI loans as each of the pools is performing.
- (k) Net charge-offs and the net charge-off rates excluded write-offs in the PCI portfolio of \$73 million and \$22 million for the three months ended June 30, 2018 and 2017, respectively, and \$93 million and \$46 million for the six months ended June 30, 2018 and 2017, respectively. These write-offs decreased the allowance for loan losses for PCI loans. Refer to Allowance for Credit Losses on pages 67-69 for further information.
- (l) Average consumer loans held-for-sale were \$291 million and \$4.9 billion for the three months ended June 30, 2018 and 2017, respectively, and \$263 million and \$2.6 billion for the six months ended June 30, 2018 and 2017, respectively. These amounts were excluded when calculating net charge-off rates.

Consumer, excluding credit card

Portfolio analysis

Consumer loan balances increased from December 31, 2017 predominantly due to originations of high-quality prime mortgage loans that have been retained on the balance sheet, largely offset by paydowns and the charge-off or liquidation of delinquent loans.

PCI loans are excluded from the following discussions of individual loan products and are addressed separately below. For further information about the Firm's consumer portfolio, including information about delinquencies, loan modifications and other credit quality indicators, refer to Note 11 of this Form 10-Q.

Residential mortgage: The residential mortgage portfolio predominantly consists of high-quality prime mortgage loans, with a small component consisting of subprime mortgage loans (approximately 1%). These subprime mortgage loans continue to run off and are performing in line with expectations. The residential mortgage portfolio, including loans held-for-sale, increased from December 31, 2017 as the amount of retained originations of primarily high-quality prime mortgage loans exceeded paydowns. Residential mortgage 30+ day delinquencies decreased from December 31, 2017. Nonaccrual loans decreased from December 31, 2017 due to lower delinguencies. Net recoveries for the three and six months ended June 30, 2018 were higher compared with the same period in the prior year reflecting a loan sale as well as continued improvement in home prices and delinquencies.

At June 30, 2018, and December 31, 2017, the Firm's residential mortgage portfolio included \$20.8 billion and \$20.2 billion, respectively, of interest-only loans. These loans have an interest-only payment period generally followed by an adjustable-rate or fixed-rate fully amortizing payment period to maturity and are typically originated as higher-balance loans to higher-income borrowers. To date, losses on this portfolio generally have been consistent with the broader residential mortgage portfolio. The Firm continues to monitor the risks associated with these loans.

The following table provides a summary of the Firm's residential mortgage portfolio insured and/or guaranteed by U.S. government agencies, including loans held-for-sale. The Firm monitors its exposure to certain potential unrecoverable claim payments related to government-insured loans and considers this exposure in estimating the allowance for loan losses.

(in millions)	June 30, 2018	December 31, 2017
Current	\$ 3,194	\$ 2,401
30-89 days past due	1,741	1,958
90 or more days past due	3,254	4,264
Total government guaranteed loans	\$ 8,189	\$ 8,623

Home equity: The home equity portfolio declined from December 31, 2017 primarily reflecting loan paydowns. The amount of 30+ day delinquencies decreased from December 31, 2017. Nonaccrual loans decreased from December 31, 2017 primarily as a result of loss mitigation activities. Net recoveries for the three months ended June 30, 2018 and net charge-offs for the six months ended June 30, 2018 improved when compared with the same period in the prior year, as a result of lower loan balances and continued improvement in home prices and delinquencies.

At June 30, 2018, approximately 90% of the Firm's home equity portfolio consisted of home equity lines of credit ("HELOCs") and the remainder consisted of home equity loans ("HELOANs"). The carrying value of HELOCs outstanding was \$27 billion at June 30, 2018. This amount included \$13 billion of HELOCs that have recast from interest-only to fully amortizing payments or have been modified and \$5 billion of interest-only balloon HELOCs, which primarily mature after 2030. The Firm manages the risk of HELOCs during their revolving period by closing or reducing the undrawn line to the extent permitted by law when borrowers are exhibiting a material deterioration in their credit risk profile.

The Firm monitors risks associated with junior lien loans where the borrower has a senior lien loan that is either delinquent or has been modified. These loans are considered "high-risk seconds" and are classified as nonaccrual as they are considered to pose a higher risk of default than other junior lien loans. The carrying value of high-risk seconds declined from December 31, 2017.

For further information on the Firm's home equity portfolio, refer to Note 11 of this Form 10-Q and Consumer Credit Portfolio on pages 102-107 of JPMorgan Chase's 2017 Annual Report.

Auto: The auto loan portfolio, which predominantly consists of prime-quality loans, declined when compared with December 31, 2017, as paydowns and the charge-off or liquidation of delinquent loans were partially offset by new originations. Nonaccrual loans decreased from December 31, 2017. Net charge-offs for the three and six months ended June 30, 2018 were relatively flat when compared with the same period in the prior year.

Consumer & Business Banking: Consumer & Business Banking loans increased when compared with December 31, 2017, as growth due to loan originations was predominantly offset by paydowns and the charge-off or liquidation of delinquent loans. Nonaccrual loans decreased from December 31, 2017. Net charge-offs for the three and six months ended June 30, 2018 decreased when compared with the same period in the prior year.

Purchased credit-impaired loans: PCI loans decreased from December 31, 2017 due to portfolio run off and a loan sale. As of June 30, 2018, approximately 11% of the option ARM PCI loans were delinquent and approximately 68% of the portfolio had been modified into fixed-rate, fully amortizing loans. The borrowers for substantially all of the remaining loans are making amortizing payments, although such payments are not necessarily fully amortizing. This latter group of loans is subject to the risk of payment shock due to future payment recast. Default rates generally increase on option ARM loans when payment recast results in a payment increase. The expected increase in default rates is considered in the Firm's quarterly impairment assessment.

The following table provides a summary of lifetime principal loss estimates included in either the nonaccretable difference or the allowance for loan losses.

Summary of PCI loans lifetime principal loss estimates

	Lifetime loss estimates ^(a)				Life-to-date liquidation losses				
(in billions)	Jun 30, 2018	[Dec 31, 2017	lun 30, 2018		Dec 31, 2017			
Home equity	\$ 14.1	\$	14.2	\$	13.0	\$	12.9		
Prime mortgage	4.1		4.0		3.8		3.8		
Subprime mortgage	3.3		3.3		3.1		3.1		
Option ARMs	10.3 10.0				9.9		9.7		
Total	\$ 31.8	31.8 \$ 31.5			29.8	\$	29.5		

- (a) Includes the original nonaccretable difference established in purchase accounting of \$30.5 billion for principal losses plus additional principal losses recognized subsequent to acquisition through the provision and allowance for loan losses. The remaining nonaccretable difference for principal losses was \$624 million and \$842 million at June 30, 2018, and December 31, 2017, respectively.
- (b) Represents both realization of loss upon loan resolution and any principal forgiven upon modification.

Geographic composition of residential real estate loans For information on the geographic composition of the Firm's residential real estate loans, refer to Note 11.

Current estimated loan-to-value ratio of residential real estate loans

Average current estimated loan-to-value ("LTV") ratios have declined consistent with recent improvements in home prices, customer pay downs, and charge-offs or liquidations of higher LTV loans. For further information on current estimated LTVs on residential real estate loans, refer to Note 11.

Loan modification activities for residential real estate loans

The performance of modified loans generally differs by product type due to differences in both the credit quality and the types of modifications provided. The performance of modifications to the residential real estate portfolios as measured through cumulative redefault rates, were not materially different from December 31, 2017. For further information on the Firm's cumulative redefault rates refer to Consumer Credit Portfolio on pages 102-107 of JPMorgan Chase's 2017 Annual Report.

Certain loans that were modified under HAMP and the Firm's proprietary modification programs have interest rate reset provisions ("step-rate modifications"). Interest rates on these loans generally began to increase commencing in 2014 by 1% per year, and will continue to do so, until the rate reaches a specified cap. The cap on these loans is typically at a prevailing market interest rate for a fixed-rate mortgage loan as of the modification date. At June 30, 2018, the carrying value of non-PCI loans and the unpaid principal balance of PCI loans modified in step-rate modifications, which have not yet met their specified caps, were \$2 billion and \$5 billion, respectively. The Firm continues to monitor this risk exposure and the impact of these potential interest rate increases is considered in the Firm's allowance for loan losses.

The following table presents information as of June 30, 2018, and December 31, 2017, relating to modified retained residential real estate loans for which concessions have been granted to borrowers experiencing financial difficulty. For further information on modifications for the three and six months ended June 30, 2018 and 2017, refer to Note 11.

Modified residential real estate loans

	June 3	0, 2	018	D	ecembe	, 2017	
(in millions)	 etained loans	a re	Non- ccrual etained pans ^(d)		Retained loans		Non- accrual etained oans ^(d)
Modified residential real estate loans, excluding PCI loans ^{(a)(b)}							
Residential mortgage	\$ 5,024	\$	1,730	\$	5,620	\$	1,743
Home equity	2,092		1,041		2,118		1,032
Total modified residential real estate loans, excluding PCI loans	\$ 7,116	\$	2,771	\$	7,738	\$	2,775
Modified PCI loans(c)							
Home equity	\$ 2,180		NA	\$	2,277		NA
Prime mortgage	3,684		NA		4,490		NA
Subprime mortgage	2,322		NA		2,678		NA
Option ARMs	7,196		NA		8,276		NA
Total modified PCI loans	\$ 15,382		NA	\$	17,721		NA

- (a) Amounts represent the carrying value of modified residential real estate loans.
- (b) At June 30, 2018, and December 31, 2017, \$4.3 billion and \$3.8 billion, respectively, of loans modified subsequent to repurchase from Ginnie Mae in accordance with the standards of the appropriate government agency (i.e., Federal Housing Administration ("FHA"), U.S. Department of Veterans Affairs ("VA"), Rural Housing Service of the U.S. Department of Agriculture ("RHS")) are not included in the table above. When such loans perform subsequent to modification in accordance with Ginnie Mae guidelines, they are generally sold back into Ginnie Mae loan pools. Modified loans that do not re-perform become subject to foreclosure. For additional information about sales of loans in securitization transactions with Ginnie Mae, refer to Note 13.
- (c) Amounts represent the unpaid principal balance of modified PCI loans.
- (d) At both June 30, 2018, and December 31, 2017, nonaccrual loans included \$2.2 billion of troubled debt restructurings ("TDRs") for which the borrowers were less than 90 days past due. For additional information about loans modified in a TDR that are on nonaccrual status, refer to Note 11.

Nonperforming assets

The following table presents information as of June 30, 2018, and December 31, 2017, about consumer, excluding credit card, nonperforming assets.

Nonperforming assets(a)

		June 30.	Dec	cember 31.
(in millions)		2018		2017
Nonaccrual loans(b)				
Nonacci uai ioans				
Residential real estate	\$	3,582	\$	3,785
Other consumer		397		424
Total nonaccrual loans		3,979		4,209
Assets acquired in loan satisfaction	ıs			
Real estate owned		206		225
Other		33		40
Total assets acquired in loan				
satisfactions		239		265
Total nonperforming assets	\$	4,218	\$	4,474

- (a) At June 30, 2018, and December 31, 2017, nonperforming assets excluded mortgage loans 90 or more days past due and insured by U.S. government agencies of \$3.3 billion and \$4.3 billion, respectively, and REO insured by U.S. government agencies of \$84 million and \$95 million, respectively. These amounts have been excluded based upon the government guarantee.
- (b) Excludes PCI loans, which are accounted for on a pool basis. Since each pool is accounted for as a single asset with a single composite interest rate and an aggregate expectation of cash flows, the past-due status of the pools, or that of individual loans within the pools, is not meaningful. The Firm is recognizing interest income on each pool of loans as each of the pools is performing.

Nonaccrual loans in the residential real estate portfolio at June 30, 2018 decreased to \$3.6 billion from \$3.8 billion at December 31, 2017, of which 26% were greater than 150 days past due for both time periods. In the aggregate, the unpaid principal balance of residential real estate loans greater than 150 days past due was charged down by approximately 34% and 40% to the estimated net realizable value of the collateral at June 30, 2018, and December 31, 2017, respectively.

Nonaccrual loans: The following table presents changes in consumer, excluding credit card, nonaccrual loans for the six months ended June 30, 2018 and 2017.

Nonaccrual loan activity

Six months ended June 30, (in millions)	2018	2017
Beginning balance	\$ 4,209 \$	4,820
Additions	1,575	1,647
Reductions:		
Principal payments and other(a)	738	888
Charge-offs	246	372
Returned to performing status	666	750
Foreclosures and other liquidations	155	231
Total reductions	1,805	2,241
Net changes	(230)	(594)
Ending balance	\$ 3,979 \$	4,226

(a) Other reductions includes loan sales.

Active and suspended foreclosure: For information on loans that were in the process of active or suspended foreclosure, refer to Note 11.

Credit card

Total credit card loans decreased from December 31, 2017 due to seasonality. The June 30, 2018 30+ day delinquency rate seasonally decreased to 1.65% from 1.80% at December 31, 2017, and the June 30, 2018 90+ day delinquency rate decreased to 0.85% from 0.92% at December 31, 2017, in line with expectations. Net charge-offs increased for the six months ended June 30, 2018 when compared with the same period in the prior year primarily due to growth in newer vintages which, as anticipated, have higher loss rates than the more seasoned portion of the portfolio. For further information on the geographic and FICO composition of the Firm's credit card loans, refer to Note 11.

Consistent with the Firm's policy, all credit card loans typically remain on accrual status until charged off. However, the Firm establishes an allowance, which is offset against loans and charged to interest income, for the estimated uncollectible portion of accrued and billed interest and fee income.

Modifications of credit card loans

At June 30, 2018 and December 31, 2017, the Firm had \$1.3 billion and \$1.2 billion, respectively, of credit card loans outstanding that have been modified in TDRs. These balances included both credit card loans with modified payment terms and credit card loans that reverted back to their pre-modification payment terms because the cardholder did not comply with the modified payment terms.

For additional information about loan modification programs to borrowers, refer to Note 11.

WHOLESALE CREDIT PORTFOLIO

In its wholesale businesses, the Firm is exposed to credit risk primarily through its underwriting, lending, market-making, and hedging activities with and for clients and counterparties, as well as through various operating services (such as cash management and clearing activities), securities financing activities and cash placed with banks. A portion of the loans originated or acquired by the Firm's wholesale businesses is generally retained on the balance sheet. The Firm distributes a significant percentage of the loans it originates into the market as part of its syndicated loan business and to manage portfolio concentrations and credit risk.

The credit quality of the wholesale portfolio was stable for the six months ended June 30, 2018, characterized by low levels of criticized exposure, nonaccrual loans and charge-offs. Refer to industry discussion on pages 62-64 for further information. Retained loans increased across all wholesale lines of business, predominantly driven by CIB, including loans to financial institution and commercial and industrial clients, and in AWM due to higher loans to international and domestic Private Banking clients. The wholesale portfolio is actively managed, in part by conducting ongoing, in-depth reviews of client credit quality and transaction structure inclusive of collateral where applicable, and of industry, product and client concentrations.

In the following tables, the Firm's wholesale credit portfolio includes exposure held in CIB, CB, AWM and Corporate, and excludes all exposure managed by CCB.

Wholesale credit portfolio

	Credit e	xposure	Nonperf	orn	ning ^(c)
(in millions)	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018		Dec 31, 2017
Loans retained	\$ 420,632	\$ 402,898	\$ 1,156	\$	1,734
Loans held-for-sale	4,754	3,099	175		_
Loans at fair value	3,076	2,508	_		_
Loans	428,462	408,505	1,331		1,734
Derivative receivables	58,510	56,523	112		130
Receivables from customers and other ^(a)	27,454	26,139	_		-
Total wholesale credit-related assets	514,426	491,167	1,443		1,864
Lending-related commitments	401,757	370,098	712		731
Total wholesale credit exposure	\$ 916,183	\$861,265	\$ 2,155	\$	2,595
Credit derivatives used in credit portfolio management activities ^(b)	\$ (15,229)	\$ (17,609)	\$ _	\$	_
Liquid securities and other cash collateral held against derivatives	(16,103)	(16,108)	NA		NA

- (a) Receivables from customers and other include \$27.4 billion and \$26.0 billion of held-for-investment margin loans at June 30, 2018, and December 31, 2017, respectively, to prime brokerage customers in CIB and in AWM; these are classified in accrued interest and accounts receivable on the Consolidated balance sheets.
- (b) Represents the net notional amount of protection purchased and sold through credit derivatives used to manage both performing and nonperforming wholesale credit exposures; these derivatives do not qualify for hedge accounting under U.S. GAAP. For additional information, refer to Credit derivatives on page 66, and Note 4.
- (c) Excludes assets acquired in loan satisfactions.

The following tables present the maturity and ratings profiles of the wholesale credit portfolio as of June 30, 2018, and December 31, 2017. The ratings scale is based on the Firm's internal risk ratings, which generally correspond to the ratings assigned by S&P and Moody's. For additional information on wholesale loan portfolio risk ratings, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

Wholesale credit exposure - maturity and ratings profile

		Maturity	profile ^(d)			Ratings profile		
		Due after 1 vear			Investment- grade	Noninvestment- grade		
June 30, 2018 (in millions, except ratios)	Due in 1 year or less	through 5 years	Due after 5 years	Total	AAA/Aaa to BBB-/Baa3	BB+/Ba1 & below	Total	Total % of IG
Loans retained	\$ 135,312	\$ 182,613	\$ 102,707 \$	420,632	\$ 322,105	\$ 98,527 \$	420,632	77%
Derivative receivables				58,510			58,510	
Less: Liquid securities and other cash collateral held against derivatives				(16,103)			(16,103)	,
Total derivative receivables, net of all collateral	13,066	10,092	19,249	42,407	33,780	8,627	42,407	80
Lending-related commitments	103,600	287,054	11,103	401,757	289,653	112,104	401,757	72
Subtotal	251,978	479,759	133,059	864,796	645,538	219,258	864,796	75
Loans held-for-sale and loans at fair value(a)				7,830			7,830	
Receivables from customers and other				27,454			27,454	
Total exposure - net of liquid securities and other cash collateral held against derivatives			\$	900,080		5	900,080	
Credit derivatives used in credit portfolio management activities ^{(b)(c)}	\$ (1,281)	\$ (11,177)	\$ (2,771) \$	(15,229)	\$ (13,093)	\$ (2,136) \$	(15,229)	86%

		Maturity	profile ^(d)			Ratings profile		
		Due after 1			Investment- grade	Noninvestment- grade		
December 31, 2017 (in millions, except ratios)	Due in 1 year or less	year through 5 years	Due after 5 years	Total	AAA/Aaa to BBB-/Baa3	BB+/Ba1 & below	Total	Total % of IG
Loans retained	\$ 121,643	\$ 177,033	\$ 104,222 \$	402,898	\$ 311,681	\$ 91,217 \$	402,898	77%
Derivative receivables				56,523			56,523	
Less: Liquid securities and other cash collateral held against derivatives				(16,108)			(16,108)	
Total derivative receivables, net of all collateral	9,882	10,463	20,070	40,415	32,373	8,042	40,415	80
Lending-related commitments	80,273	275,317	14,508	370,098	274,127	95,971	370,098	74
Subtotal	211,798	462,813	138,800	813,411	618,181	195,230	813,411	76
Loans held-for-sale and loans at fair value(a)				5,607			5,607	
Receivables from customers and other				26,139			26,139	
Total exposure - net of liquid securities and other cash collateral held against derivatives			\$	845,157		9	845,157	
Credit derivatives used in credit portfolio management activities(b)(c)	\$ (1,807)) \$ (11,011)	\$ (4,791) \$	(17,609)	\$ (14,984)) \$ (2,625) \$	(17,609)	85%

⁽a) Represents loans held-for-sale, primarily related to syndicated loans and loans transferred from the retained portfolio, and loans at fair value.

⁽b) These derivatives do not qualify for hedge accounting under U.S. GAAP.

⁽c) The notional amounts are presented on a net basis by underlying reference entity and the ratings profile shown is based on the ratings of the reference entity on which protection has been purchased. Predominantly all of the credit derivatives entered into by the Firm where it has purchased protection used in credit portfolio management activities are executed with investment-grade counterparties.

⁽d) The maturity profile of retained loans, lending-related commitments and derivative receivables is based on the remaining contractual maturity. Derivative contracts that are in a receivable position at June 30, 2018, may become payable prior to maturity based on their cash flow profile or changes in market conditions.

Wholesale credit exposure - industry exposures

The Firm focuses on the management and diversification of its industry exposures, and pays particular attention to industries with actual or potential credit concerns. Exposures deemed criticized align with the U.S. banking regulators' definition of criticized exposures, which consist of the special mention, substandard and doubtful

categories. The total criticized component of the portfolio, excluding loans held-for-sale and loans at fair value, was \$11.2 billion at June 30, 2018, compared with \$15.6 billion at December 31, 2017. The decrease was largely driven by select names within Oil & Gas, including a loan sale

Below are summaries of the Firm's exposures as of June 30, 2018, and December 31, 2017. The industry of risk category is generally based on the client or counterparty's primary business activity. For additional information on industry concentrations, refer to Note 4 of JPMorgan Chase's 2017 Annual Report.

Wholesale credit exposure – industries(a)

							Select	ed metrics	
			No	ninvestment-gr	ade	30 days			Liquid securities and other cash
As of or for the six months ended						past due			collateral held
June 30, 2018	Credit	Investment		Criticized	Criticized	and accruing	Net charge-offs/	Credit derivative	against derivative
(in millions)	exposure ^(e)	- grade	Noncriticized		nonperforming	loans	(recoveries)	hedges ^(f)	receivables
Real Estate	\$ 142,116	\$ 116,264	\$ 24,996	\$ 718	\$ 138	\$ 696	\$ (18)	\$ -	\$ (2
Consumer & Retail	86,867	55,172	29,870	1,671	154	32	50	(268)	(3
Technology, Media & Telecommunications	79,053	48,286	29,222	1,495	50	15	_	(901)	(18
Industrials	59,990	38,609	19,982	1,211	188	125	_	(146)	(17
Healthcare	57,089	39,589	16,627	844	29	6	(2)	_	(180
Banks & Finance Cos	51,445	35,882	15,242	317	4	13	-	(649)	(2,426
Oil & Gas	42,650	23,064	17,452	1,287	847	2	38	(492)	(2
Asset Managers	40,040	33,963	6,059	4	14	5	-	-	(6,610
Utilities	28,437	23,790	4,353	136	158	1	38	(189)	(36
State & Municipal Govt (b)	26,408	25,760	648	_	_	3	_	(60)	(18
Chemicals & Plastics	18,666	11,432	7,205	29	_	5	_	(25)	_
Central Govt	18,503	18,307	123	73	_	3	_	(9,320)	(1,965
Transportation	16,915	10,445	5,938	461	71	11	6	(32)	(69
Automotive	15,849	9,586	5,943	295	25	2	-	(227)	-
Metals & Mining	14,225	7,457	6,314	398	56	17	_	(278)	(25
Insurance	12,952	10,266	2,645	_	41	2	_	(37)	(2,404
Financial Markets Infrastructure	6,231	6,109	122	_	_	_	_	_	_
Securities Firms	3,998	2,567	1,430	1	_	_	_	(261)	(454
All other ^(c)	159,465	142,598	16,424	238	205	790	53	(2,344)	(1,874
Subtotal	\$ 880,899	\$ 659,146	\$ 210,595	\$ 9,178	\$ 1,980	\$ 1,728	\$ 165	\$ (15,229)	\$ (16,103)
Loans held-for-sale and loans at fair value	7,830								
Receivables from customers and other	27,454	_							
Total ^(d)	\$ 916,183								

(continued from previous page)

As of or for the year ended		-	N	oninvestment-g	rade	30 days or more past due	Not	Cradit	Liquid securities and other cash collateral held	
December 31, 2017 (in millions)	Credit exposure ^(e)	Investment - grade	Noncriticized	Criticized performing	Criticized nonperforming	and accruing loans	Net charge-offs/ (recoveries)	Credit derivative hedges ^(f)	against derivative receivables	
Real Estate	\$ 139,409	\$ 115,401	\$ 23,012	\$ 859	\$ 137	\$ 254	\$ (4)	\$ -	\$ (2	
Consumer & Retail	87,679	55,737	29,619	1,791	532	30	34	(275)	(9	
Technology, Media & Telecommunications	59,274	36,510	20,453	2,258	53	14	(12)	(910)	(19	
Industrials	55,272	37,198	16,770	1,159	145	150	(1)	(196)	(21	
Healthcare	55,997	42,643	12,731	585	38	82	(1)	_	(207	
Banks & Finance Cos	49,037	34,654	13,767	612	4	1	6	(1,216)	(3,174	
Oil & Gas	41,317	21,430	14,854	4,046	987	22	71	(747)	(1	
Asset Managers	32,531	28,029	4,484	4	14	27	_	-	(5,290	
Utilities	29,317	24,486	4,383	227	221	_	11	(160)	(56	
State & Municipal Govt ^(b)	28,633	27,977	656	_	_	12	5	(130)	(524	
Chemicals & Plastics	15,945	11,107	4,764	74	_	4	_		_	
Central Govt	19,182	18,741	376	65	_	4	_	(10,095)	(2,520	
Transportation	15,797	9,870	5,302	527	98	9	14	(32)	(131	
Automotive	14,820	9,321	5,278	221	_	10	1	(284)	_	
Metals & Mining	14,171	6,989	6,822	321	39	3	(13)	(316)	(1)	
Insurance	14,089	11,028	2,981	-	80	1	-	(157)	(2,195)	
Financial Markets Infrastructure	5,036	4,775	261	_	-	-	_		(23)	
Securities Firms	4,113	2,559	1,553	1	-	-	_	(274)	(335)	
All other ^(c)	147,900	134,110	13,283	260	247	901	8	(2,817)	(1,600)	
Subtotal	\$ 829,519	\$ 632,565	\$ 181,349	\$ 13,010	\$ 2,595	\$ 1,524	\$ 119	\$ (17,609)	\$ (16,108)	
Loans held-for-sale and loans at fair value	5,607									
Receivables from customers and other	26,139									
Total ^(d)	\$ 861,265									

⁽a) The industry rankings presented in the table as of December 31, 2017, are based on the industry rankings of the corresponding exposures at June 30, 2018, not actual rankings of such exposures at December 31, 2017.

⁽b) In addition to the credit risk exposure to states and municipal governments (both U.S. and non-U.S.) at June 30, 2018, and December 31, 2017, noted above, the Firm held: \$9.2 billion and \$9.8 billion, respectively, of trading securities; \$39.3 billion and \$32.3 billion, respectively, of AFS securities; and \$4.8 billion and \$14.4 billion, respectively, of held-to-maturity ("HTM") securities, issued by U.S. state and municipal governments. For further information, refer to Note 2 and Note 9.

⁽c) All other includes: individuals (predominantly Wealth Management clients within AWM), SPEs, and private education and civic organizations, representing approximately 60%, 36%, and 4%, respectively, at June 30, 2018, and 59%, 37%, and 4%, respectively, at December 31, 2017.

⁽d) Excludes cash placed with banks of \$396.1 billion and \$421.0 billion, at June 30, 2018, and December 31, 2017, respectively, which is predominantly placed with various central banks, primarily Federal Reserve Banks.

⁽e) Credit exposure is net of risk participations and excludes the benefit of credit derivatives used in credit portfolio management activities held against derivative receivables or loans and liquid securities and other cash collateral held against derivative receivables.

⁽f) Represents the net notional amounts of protection purchased and sold through credit derivatives used to manage the credit exposures; these derivatives do not qualify for hedge accounting under U.S. GAAP. The All other category includes purchased credit protection on certain credit indices.

Real Estate

Presented below is additional information on the Real Estate industry to which the Firm has significant exposure.

Real Estate exposure increased \$2.7 billion to \$142.1 billion during the six months ended June 30, 2018, while the investment-grade percentage of the portfolio remained relatively flat at 82%. For further information on Real Estate loans, refer to Note 11.

	June 30, 2018										
(in millions, except ratios)	Lend	ans and ing-related imitments		vative ivables		Credit xposure	% Investment- grade	% Drawn ^(c)			
Multifamily ^(a)	\$	88,565	\$	28	\$	88,593	86%	88%			
Other		53,417		106		53,523	74	66			
Total Real Estate Exposure(b)		141,982		134		142,116	82	80			

	December 31, 2017										
(in millions, except ratios)	Lendi	ans and ng-related mitments		vative ivables		Credit xposure	% Investment- grade	% Drawn ^(c)			
Multifamily ^(a)	\$	84,635	\$	34	\$	84,669	89%	92%			
Other		54,620		120		54,740	74	66			
Total Real Estate Exposure ^(b)		139,255		154		139,409	83	82			

- (a) Multifamily exposure is largely in California.
- (b) Real Estate exposure is predominantly secured; unsecured exposure is largely investment-grade.
- (c) Represents drawn exposure as a percentage of credit exposure.

Loans

In the normal course of its wholesale business, the Firm provides loans to a variety of clients, ranging from large corporate and institutional clients to high-net-worth individuals. For a further discussion on loans, including information on credit quality indicators and sales of loans, refer to Note 11.

The following table presents the change in the nonaccrual loan portfolio for the six months ended June 30, 2018 and 2017.

Wholesale nonaccrual loan activity

Six months ended June 30, (in millions)	2018	2017
Beginning balance	\$ 1,734 \$	2,063
Additions	505	747
Reductions:		
Paydowns and other	394	666
Gross charge-offs	231	93
Returned to performing status	176	183
Sales	107	203
Total reductions	908	1,145
Net changes	(403)	(398)
Ending balance	\$ 1,331 \$	1,665

The following table presents net charge-offs/recoveries, which are defined as gross charge-offs less recoveries, for the six months ended June 30, 2018 and 2017. The amounts in the table below do not include gains or losses from sales of nonaccrual loans.

Wholesale net charge-offs/ (recoveries)

(in millions,		nths ended e 30,	Six montl June	
except ratios)	2018	2017	2018	2017
Loans - reported				
Average loans retained	\$ 414,980	\$ 392,257	\$ 409,949	\$ 387,339
Gross charge- offs	176	73	241	99
Gross recoveries	(30)	(16)	(76)	(69)
Net charge- offs/ (recoveries)	146	57	165	30
Net charge- off/ (recovery) rate	0.14%	0.06%	0.08%	0.02%

Lending-related commitments

The Firm uses lending-related financial instruments, such as commitments (including revolving credit facilities) and guarantees, to address the financing needs of its clients. The contractual amounts of these financial instruments represent the maximum possible credit risk should the clients draw down on these commitments or the Firm fulfills its obligations under these guarantees, and the clients subsequently fail to perform according to the terms of these contracts. Most of these commitments and guarantees are refinanced, extended, cancelled, or expire without being drawn upon or a default occurring. In the Firm's view, the total contractual amount of these wholesale lending-related commitments is not representative of the Firm's expected future credit exposure or funding requirements. For further information on wholesale lending-related commitments, refer to Note 20.

Derivative contracts

Derivatives enable clients to manage exposures to fluctuations in interest rates, currencies and other markets. In the normal course of business, the Firm uses derivative instruments predominantly for market-making activities. The Firm also uses derivative instruments to manage its own credit and other market risk exposure. For a further discussion of derivative contracts, refer to Note 4.

The following table summarizes the net derivative receivables for the periods presented.

Derivative receivables

	Derivative rece	eivables
(in millions)	June 30, 2018	December 31, 2017
Interest rate	\$ 22,971 \$	24,673
Credit derivatives	624	869
Foreign exchange	16,763	16,151
Equity	10,176	7,882
Commodity	7,976	6,948
Total, net of cash collateral	58,510	56,523
Liquid securities and other cash collateral held against derivative receivables ^(a)	(16,103)	(16,108)
Total, net of collateral	\$ 42,407 \$	40,415

(a) Includes collateral related to derivative instruments where an appropriate legal opinion has not been either sought or obtained.

The fair value of derivative receivables reported on the Consolidated balance sheets were \$58.5 billion and \$56.5 billion at June 30, 2018, and December 31, 2017, respectively.

Derivative receivables represent the fair value of the derivative contracts after giving effect to legally enforceable master netting agreements and cash collateral held by the Firm. However, in management's view, the appropriate measure of current credit risk should also take into consideration additional liquid securities (primarily U.S. government and agency securities and other group of seven nations ("G7") government securities) and other cash collateral held by the Firm aggregating \$16.1 billion at June 30, 2018, and December 31, 2017, that may be used as security when the fair value of the client's exposure is in the Firm's favor.

In addition to the collateral described in the preceding paragraph, the Firm also holds additional collateral (primarily cash, G7 government securities, other liquid government-agency and guaranteed securities, and corporate debt and equity securities) delivered by clients at the initiation of transactions, as well as collateral related to contracts that have a non-daily call frequency and collateral that the Firm has agreed to return but has not yet settled as of the reporting date. Although this collateral does not reduce the balances and is not included in the table above, it is available as security against potential exposure that could arise should the fair value of the client's derivative transactions move in the Firm's favor.

The derivative receivables fair value, net of all collateral, also does not include other credit enhancements, such as letters of credit. For additional information on the Firm's use of collateral agreements, refer to Note 4.

The following table summarizes the ratings profile of the Firm's derivative receivables, including credit derivatives, net of all collateral, at the dates indicated. The ratings scale is based on the Firm's internal ratings, which generally correspond to the ratings as assigned by S&P and Moody's.

Ratings profile of derivative receivables

		June 30), 2018	December	31, 2017	
Rating equivalent (in millions, except ratios)		ure net of lateral	% of exposure net of collateral	osure net of collateral	% of exposure net of collateral	
AAA/Aaa to AA-/Aa3	!	\$ 11,133	26%	\$ 11,529	29%	
A+/A1 to A-/A3		7,796	18	6,919	17	
BBB+/Baa1 to BBB-/Baa3		14,851	35	13,925	34	
BB+/Ba1 to B-/B3		7,997	19	7,397	18	
CCC+/Caa1 and below		630	2	645	2	
Total		\$ 42,407	100%	\$ 40,415	100%	

As previously noted, the Firm uses collateral agreements to mitigate counterparty credit risk. The percentage of the Firm's over-the-counter derivatives transactions subject to collateral agreements — excluding foreign exchange spot trades, which are not typically covered by collateral agreements due to their short maturity, and centrally cleared trades that are settled daily — was approximately 90% at both June 30, 2018 and December 31, 2017.

Credit derivatives

The Firm uses credit derivatives for two primary purposes: first, in its capacity as a market-maker, and second, as an end-user, to manage the Firm's own credit risk associated with various exposures.

Credit portfolio management activities

Included in the Firm's end-user activities are credit derivatives used to mitigate the credit risk associated with traditional lending activities (loans and unfunded commitments) and derivatives counterparty exposure in the Firm's wholesale businesses (collectively, "credit portfolio management" activities). Information on credit portfolio management activities is provided in the table below.

Credit derivatives used in credit portfolio management activities

	N	Notional amount of protectio purchased and sold ^(a)								
(in millions)		June 30, 2018	De	ecember 31, 2017						
Credit derivatives used to manage:										
Loans and lending-related commitments	\$	1,297	\$	1,867						
Derivative receivables		13,932		15,742						
Credit derivatives used in credit portfolio management activities	\$	15,229	\$	17,609						

⁽a) Amounts are presented net, considering the Firm's net protection purchased or sold with respect to each underlying reference entity or index.

For further information on credit derivatives and derivatives used in credit portfolio management activities, refer to Credit derivatives in Note 4 of this Form 10-Q, and Note 5 of JPMorgan Chase's 2017 Annual Report.

ALLOWANCE FOR CREDIT LOSSES

The Firm's allowance for credit losses covers the retained consumer and wholesale loan portfolios, as well as the Firm's wholesale and certain consumer lending-related commitments.

For further information on the components of the allowance for credit losses and related management judgments, refer to Critical Accounting Estimates Used by the Firm on pages 77-79 and Note 12 of this Form 10-Q, and Critical Accounting Estimates Used by the Firm on pages 138-140 and Note 13 of JPMorgan Chase's 2017 Annual Report.

At least quarterly, the allowance for credit losses is reviewed by the CRO, the CFO and the Controller of the Firm. As of June 30, 2018, JPMorgan Chase deemed the allowance for credit losses to be appropriate and sufficient to absorb probable credit losses inherent in the portfolio.

The wholesale allowance for credit losses decreased from December 31, 2017, primarily as a result of a reduction in the allowance for the Oil & Gas portfolio driven by a single name.

The consumer allowance for credit losses was relatively flat compared with December 31, 2017.

For additional information on the wholesale and consumer credit portfolios, refer to Wholesale Credit Portfolio on pages 60-66, and Consumer Credit Portfolio on pages 55-59 and Note 11.

Summary of changes in the allowance for credit losses

	2018									2017						
Six months ended June 30,	Consumer, excluding									Consumer, excluding						
(in millions, except ratios)		edit card	(Credit card		Wholesale		Total		redit card	(redit card	١	Wholesale		Total
Allowance for loan losses																
Beginning balance at January 1,	\$	4,579	\$	4,884	\$	4,141	\$	13,604	\$	5,198	\$	4,034	\$	4,544	\$	13,776
Gross charge-offs		539		2,578		241		3,358		1,105		2,223		99		3,427
Gross recoveries		(451)		(244)		(76)		(771)		(307)		(193)		(69)		(569)
Net charge-offs ^(a)		88		2,334		165		2,587		798		2,030		30		2,858
Write-offs of PCI loans(b)		93		_		-		93		46		-		_		46
Provision for loan losses		90		2,334		(98)		2,326		448		2,380		(337)		2,491
Other		_		-		-		_		(2)		_		2		_
Ending balance at June 30,	\$	4,488	\$	4,884	\$	3,878	\$	13,250	\$	4,800	\$	4,384	\$	4,179	\$	13,363
Impairment methodology																
Asset-specific ^(c)	\$	226	\$	402	\$	318	\$	946	\$	296	\$	370	\$	345	\$	1,011
Formula-based		2,130		4,482		3,560		10,172		2,239		4,014		3,834		10,087
PCI		2,132		_		_		2,132		2,265		_		_		2,265
Total allowance for loan losses	\$	4,488	\$	4,884	\$	3,878	\$	13,250	\$	4,800	\$	4,384	\$	4,179	\$	13,363
Allowance for lending-related commitments																
Beginning balance at January 1,	\$	33	\$	_	\$	1,035	\$	1,068	\$	26	\$	_	\$	1,052	\$	1,078
Provision for lending-related commitments		_		_		49		49		6		_		33		39
Other		_		_		_				_		_		_		_
Ending balance at June 30,	\$	33	\$	_	\$	1,084	\$	1,117	\$	32	\$		\$	1,085	\$	1,117
Impairment methodology																
Asset-specific	\$	-	\$	-	\$	139	\$	139	\$	_	\$	-	\$	211	\$	211
Formula-based		33		_		945		978		32		_		874		906
Total allowance for lending-related commitments ^(d)	\$	33	\$	_	\$	1,084	\$	1,117	\$	32	\$	-	\$	1,085	\$	1,117
Total allowance for credit losses	\$	4,521	\$	4,884	\$	4,962	\$	14,367	\$	4,832	\$	4,384	\$	5,264	\$	14,480
Memo:																
Retained loans, end of period	\$	374,587	\$	145,221	\$	420,632	\$	940,440	\$	365,115	\$	140,035	\$	394,426	\$	899,576
Retained loans, average		373,562		142,757		409,949		926,268		364,316		137,574		387,339		889,229
PCI loans, end of period		26,977		_		3		26,980		33,064		_		3		33,067
Credit ratios																
Allowance for loan losses to retained loans		1.20%	ó	3.36%	Ò	0.92%		1.41%		1.31%	ó	3.13%	Ó	1.06%)	1.49%
Allowance for loan losses to retained nonaccrual loans ^(e)		113		NM		335		258		114		NM		256		229
Allowance for loan losses to retained nonaccrual loans excluding credit card		113		NM		335		163		114		NM		256		154
Net charge-off rates ^(a)		0.05		3.30		0.08		0.56		0.44		2.98		0.02		0.65
Credit ratios, excluding residential real estate PCI loans																
Allowance for loan losses to retained loans		0.68		3.36		0.92		1.22		0.76		3.13		1.06		1.28
Allowance for loan losses to retained nonaccrual loans ^(e)		59		NM		335		217		60		NM		256		190
Allowance for loan losses to retained nonaccrual loans excluding credit card		59		NM		335		121		60		NM		256		115
Net charge-off rates ^(a)		0.05%	'n	3.30%		0.08%		0.58%		0.49%	'n	2.98%	'n	0.02%)	0.67%

Note: In the table above, the financial measures which exclude the impact of PCI loans are non-GAAP financial measures.

⁽a) For the six months ended June 30, 2017, excluding net charge-offs of \$467 million related to the student loan portfolio transfer, the net charge-off rate for Consumer, excluding credit card would have been 0.18%; total Firm would have been 0.54%; Consumer, excluding credit card and PCI loans would have been 0.20%; and total Firm, excluding PCI would have been 0.56%.

⁽b) Write-offs of PCI loans are recorded against the allowance for loan losses when actual losses for a pool exceed estimated losses that were recorded as purchase accounting adjustments at the time of acquisition. A write-off of a PCI loan is recognized when the underlying loan is removed from a pool.

⁽c) Includes risk-rated loans that have been placed on nonaccrual status and loans that have been modified in a TDR. The asset-specific credit card allowance for loan losses modified in a TDR is calculated based on the loans' original contractual interest rates and does not consider any incremental penalty rates.

⁽d) The allowance for lending-related commitments is reported in accounts payable and other liabilities on the Consolidated balance sheets.

⁽e) The Firm's policy is generally to exempt credit card loans from being placed on nonaccrual status as permitted by regulatory guidance.

Provision for credit losses

The following table presents the components of the Firm's provision for credit losses:

		Th	ree r	nonths end	ed June 3	Six months ended June 30,								
	Provision for loan losses			ovision for l ated comm	Total provision for credit losses		Provision for Ioan Iosses			for lending- mmitments	Total provision for credit losses			
(in millions)	2018	2017		2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	
Consumer, excluding credit card	\$ (56)	\$ 6	\$	- \$	6	\$ (56)	\$ 12	\$ 90	\$ 448	\$ -	\$ 6	\$ 90	\$ 454	
Credit card	1,164	1,387		_	_	1,164	1,387	2,334	2,380	_	_	2,334	2,380	
Total consumer	1,108	1,393		_	6	1,108	1,399	2,424	2,828	_	6	2,424	2,834	
Wholesale	91	(218)		11	34	102	(184)	(98)	(337)	49	33	(49)	(304)	
Total	\$ 1,199	\$ 1,175	\$	11 \$	40	\$ 1,210	\$ 1,215	\$ 2,326	\$ 2,491	\$ 49	\$ 39	\$ 2,375	\$ 2,530	

Quarterly discussion

The provision for credit losses was flat as a result of:

- a decrease in the consumer provision predominantly reflecting
 - no addition to the allowance for credit losses in CCB in the current quarter, compared with a net addition in the prior year primarily in the credit card portfolio
 - lower net charge-offs, primarily in the residential real estate portfolio, which includes a recovery from a loan sale, and reflects the continued improvement in home prices and delinquencies, predominantly offset by an increase in net charge-offs in the credit card portfolio due to seasoning of newer vintages, in line with expectations

the decrease in the consumer provision was offset by

- an increase in the wholesale provision reflecting
 - a net expense in the current period as a result of net portfolio activity, including new exposures and loan sales, compared with a net benefit in the prior year driven by a reduction in the allowance for credit losses in the Oil & Gas, Natural Gas Pipelines, and Metals and Mining portfolios.

Year-to-date discussion

The provision for credit losses decreased as a result of:

- · a lower consumer provision predominantly reflecting
 - no addition to the allowance for credit losses in CCB in the current year, compared with a net addition in the prior year primarily in the credit card portfolio

partially offset by

- higher net charge-offs in the credit card portfolio due to seasoning of newer vintages, in line with expectations. These were largely offset by lower net charge-offs in the residential real estate portfolio, which includes a recovery from a loan sale and reflects the continued improvement in home prices and delinquencies
- the prior year included a \$218 million write-down recorded in connection with the sale of the student loan portfolio

the decrease in the consumer provision was partially offset by

- a lower net benefit in the wholesale provision reflecting
- a net benefit in the current period, primarily driven by a single name in the Oil & Gas portfolio, partially offset by other net portfolio activity, compared with a net benefit in the prior year, driven by a reduction in the allowance for credit losses in the Oil & Gas, Natural Gas Pipelines, and Metals and Mining portfolios.

INVESTMENT PORTFOLIO RISK MANAGEMENT

Investment portfolio risk is the risk associated with the loss of principal or a reduction in expected returns on investments arising from the investment securities portfolio held by Treasury and CIO in connection with the Firm's balance sheet or asset-liability management objectives or from principal investments managed in various LOBs in predominantly privately-held financial assets and instruments. Investments are typically intended to be held over extended periods and, accordingly, the Firm has no expectation for short-term realized gains with respect to these investments.

Investment securities risk

Investment securities risk includes the exposure associated with a default in the payment of principal and interest. This risk is minimized given that Treasury and CIO generally invest in high-quality securities. At June 30, 2018, the investment securities portfolio was \$231.4 billion, and the average credit rating of the securities comprising the portfolio was AA+ (based upon external ratings where available and where not available, based primarily upon internal ratings that correspond to ratings as defined by S&P and Moody's). For further information on the investment securities portfolio, refer to Corporate segment results on pages 39-40 and Note 9. For further information on the market risk inherent in the portfolio, refer to Market Risk Management on pages 71-75. For further information on related liquidity risk, refer to Liquidity Risk on pages 48-52.

Principal investment risk

Principal investments are typically private non-traded financial instruments representing ownership or other forms of junior capital. Principal investments cover multiple asset classes and are made either in stand-alone investing businesses or as part of a broader business platform. Increasingly, new principal investments are made to enhance or accelerate LOB strategic business initiatives. The Firm's principal investments are managed by the various LOBs and are reflected within the respective LOB financial results. Effective January 1, 2018, the Firm adopted new accounting guidance related to the recognition and measurement of financial assets, which requires fair value adjustments upon observable price changes to certain equity investments previously held at cost in the principal investment portfolios. For additional information, refer to Note 2.

As of June 30, 2018 and December 31, 2017, the aggregate carrying values of the principal investment portfolios were \$19.9 billion and \$19.5 billion, respectively, which included tax-oriented investments (e.g., affordable housing and alternative energy investments) of \$13.6 billion and \$14.0 billion, respectively, and private equity, various debt and equity instruments, and real assets of \$6.3 billion and \$5.5 billion, respectively.

For a discussion of the Firm's Investment Portfolio Risk Management governance and oversight, refer to page 120 of JPMorgan Chase's 2017 Annual Report.

MARKET RISK MANAGEMENT

Market risk is the risk associated with the effect of changes in market factors such as interest and foreign exchange rates, equity and commodity prices, credit spreads or implied volatilities, on the value of assets and liabilities held for both the short and long term. For a discussion of the Firm's Market Risk Management organization, tools used to measure risk, risk monitoring and control and risk identification and classification, refer to Market Risk Management on pages 121-128 of JPMorgan Chase's 2017 Annual Report.

Value-at-risk

JPMorgan Chase utilizes value-at-risk ("VaR"), a statistical risk measure, to estimate the potential loss from adverse market moves in a normal market environment. The Firm has a single VaR framework used as a basis for calculating Risk Management VaR and Regulatory VaR.

As VaR is based on historical data, it is an imperfect measure of market risk exposure and potential future losses. In addition, based on their reliance on available historical data, limited time horizons, and other factors, VaR measures are inherently limited in their ability to measure certain risks and to predict losses, particularly those associated with market illiquidity and sudden or severe shifts in market conditions.

For certain products, specific risk parameters are not captured in VaR due to the lack of inherent liquidity and availability of appropriate historical data. The Firm uses proxies to estimate the VaR for these and other products when daily time series are not available. It is likely that using an actual price-based time series for these products, if available, would affect the VaR results presented. The Firm therefore considers other measures such as stress testing and nonstatistical measures, in addition to VaR, to capture and manage its market risk positions. For further information, refer to Other risk measures on pages 126-128 of JPMorgan Chase's 2017 Annual Report.

The Firm's VaR model calculations are periodically evaluated and enhanced in response to changes in the composition of the Firm's portfolios, changes in market conditions, improvements in the Firm's modeling techniques and measurements, and other factors. Such changes may affect historical comparisons of VaR results. For information regarding model reviews and approvals, refer to Estimations and Model Risk Management on page 137 of JPMorgan Chase's 2017 Annual Report.

The Firm's Risk Management VaR is calculated assuming a one-day holding period and an expected tail-loss methodology which approximates a 95% confidence level. For risk management purposes, the Firm believes this methodology provides a stable measure of VaR that closely aligns to the day-to-day risk management decisions made by the lines of business, and provides the necessary and appropriate information to respond to risk events on a daily basis. The Firm calculates separately a daily aggregated VaR in accordance with regulatory rules ("Regulatory VaR"), which is used to derive the Firm's regulatory VaR-based capital requirements under Basel III. For further information regarding the key differences between Risk Management VaR and Regulatory VaR, refer to page 123 of JPMorgan Chase's 2017 Annual Report. For additional information on Regulatory VaR and the other components of market risk regulatory capital for the Firm (e.g., VaRbased measure, stressed VaR-based measure and the respective backtesting), refer to JPMorgan Chase's Basel III Pillar 3 Regulatory Capital Disclosures reports, which are available on the Firm's website at: (http://investor.shareholder.com/jpmorganchase/basel.cfm).

The table below shows the results of the Firm's Risk Management VaR measure using a 95% confidence level.

Total VaR

				Three	months er	nded				
	Ju	ine 30, 20)18	N	March 31, 2	018	June 30, 2017			
(in millions)	Avg.	Min	Max	Avg.	Min	Max	Avg.	Min	Max	
CIB trading VaR by risk type							_			
Fixed income	\$ 31	\$ 26	\$ 36	\$ 34	\$ 30	\$ 39	\$ 28	\$ 25	\$ 31	
Foreign exchange	6	4	10	9	6	15	8	5	12	
Equities	15	13	18	17	15	22	12	9	16	
Commodities and other	7	5	9	5	4	6	8	6	10	
Diversification benefit to CIB trading VaR	(27) ^(a)	NM (b	NM (b	(25) ^{(a}) NM ^(b)	NM (b)	(30) ^(a)	NM (b)	NM	
CIB trading VaR	32	26 (b	42 ^{(b}	40	35 ^(b)	49 ^(b)	26	20 ^(b)	31	
Credit portfolio VaR	4	3	4	3	3	4	9	6	10	
Diversification benefit to CIB VaR	(3) ^(a)	NM (b	NM (b	(3) ^{(a}) NM ^(b)	NM (b)	(8) ^(a)	NM (b)	NM	
CIB VaR	33	26 (b	42 ^{(b}	40	35 ^(b)	51 ^(b)	27	22 ^(b)	32	
CCB VaR	1	1	3	1	1	2	2	2	3	
Corporate VaR	12	10	13	12	10	14	3	2	3	
Diversification benefit to other VaR	(1) ^(a)	NM (b	NM (b	(1) ^{(a}) NM ^(b)	NM (b)	(2) ^(a)	NM (b)	NM	
Other VaR	12	10 (b	14 (b	12	10 ^(b)	14 ^(b)	3	3 ^(b)	4	
Diversification benefit to CIB and other VaR	(10) ^(a)	NM (b	NM (b) (9) ^{(a}	NM (b)	NM ^(b)	(3) ^(a)	NM (b)	NM	
Total VaR	\$ 35	\$ 28 ^{(b}	\$ 44 ^{(b}	\$ 43	\$ 37 ^(b)	\$ 53 ^(b)	\$ 27	\$ 22 ^(b)	\$ 33	

⁽a) Average portfolio VaR is less than the sum of the VaR of the components described above, which is due to portfolio diversification. The diversification effect reflects that the risks are not perfectly correlated.

Quarter over Quarter results

Average total VaR decreased by \$8 million for the three months ended June 30, 2018 as compared with the prior quarter. The decrease reflects changes in the exposure profile for Equities and Fixed income risk types.

Year over Year results

Average total VaR increased by \$8 million for the three months ended June 30, 2018, compared with the same period in the prior year. The increase in average total VaR is primarily due to the inclusion of a Corporate private equity position that became publicly traded in the fourth quarter of 2017 and certain investments in CIB VaR.

VaR can vary significantly as positions change, market volatility fluctuates, and diversification benefits change.

⁽b) Diversification benefit represents the difference between the total VaR and each reported level and the sum of its individual components. Diversification benefit reflects the non-additive nature of VaR due to imperfect correlation across lines of business and risk types. The maximum and minimum VaR for each portfolio may have occurred on different trading days than the components and consequently diversification benefit is not meaningful.

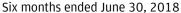
VaR back-testing

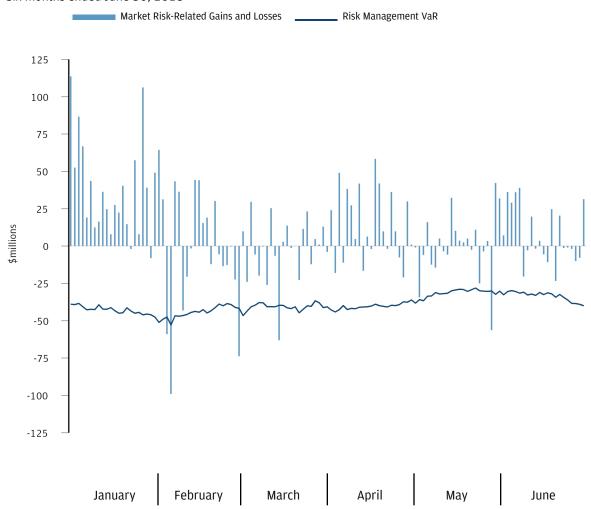
The Firm evaluates the effectiveness of its VaR methodology by back-testing, which compares the daily Risk Management VaR results with the daily gains and losses actually recognized on market-risk related revenue.

The Firm's definition of market risk-related gains and losses is consistent with the definition used by the banking regulators under Basel III. Under this definition market risk-related gains and losses are defined as: gains and losses on the positions included in the Firm's Risk Management VaR excluding fees, commissions, certain valuation adjustments (e.g., liquidity and FVA), net interest income, and gains and losses arising from intraday trading.

The following chart compares actual daily market risk-related gains and losses with the Firm's Risk Management VaR for the six months ended June 30, 2018. As the chart presents market risk-related gains and losses related to those positions included in the Firm's Risk Management VaR, the results in the table below differ from the results of back-testing disclosed in the Market Risk section of the Firm's Basel III Pillar 3 Regulatory Capital Disclosures reports, which are based on Regulatory VaR applied to covered positions. The chart shows that for the six months ended June 30, 2018, the Firm observed five VaR back-testing exceptions and posted market risk-related gains on 75 of the 129 days. The Firm observed one VaR back-testing exception and posted market risk-related gains on 35 of the 65 days for the three months ended June 30, 2018.

Daily Market Risk-Related Gains and Losses vs. Risk Management VaR (1-day, 95% Confidence level)





Earnings-at-risk

The VaR and sensitivity measures illustrate the economic sensitivity of the Firm's Consolidated balance sheets to changes in market variables. The effect of interest rate exposure on the Firm's reported net income is also important as interest rate risk represents one of the Firm's significant market risks. Interest rate risk arises not only from trading activities but also from the Firm's traditional banking activities, which include extension of loans and credit facilities, taking deposits and issuing debt. The Firm evaluates its structural interest rate risk exposure through earnings-at-risk, which measures the extent to which changes in interest rates will affect the Firm's net interest income and interest rate-sensitive fees. For a summary by line of business, identifying positions included in earningsat-risk, refer to the table on page 122 of JPMorgan Chase's 2017 Annual Report.

The Firm generates a baseline for net interest income and certain interest rate-sensitive fees, and then conducts simulations of changes for interest rate-sensitive assets and liabilities denominated in U.S. dollars and other currencies ("non-U.S. dollar" currencies). This simulation primarily includes retained loans, deposits, deposits with banks, investment securities, long term debt and any related interest rate hedges, and excludes other positions in risk management VaR and other sensitivity-based measures as described on page 122 of JPMorgan Chase's 2017 Annual Report.

Earnings-at-risk scenarios estimate the potential change in this baseline, over the following 12 months utilizing multiple assumptions. These scenarios consider the impact on exposures as a result of changes in interest rates from baseline rates, as well as pricing sensitivities of deposits, optionality and changes in product mix. The scenarios include forecasted balance sheet changes, as well as modeled prepayment and reinvestment behavior, but do not include assumptions about actions that could be taken by the Firm in response to any such instantaneous rate changes. Mortgage prepayment assumptions are based on scenario interest rates compared with underlying contractual rates, the time since origination, and other factors which are updated periodically based on historical experience. The pricing sensitivity of deposits in the baseline and scenarios use assumed rates paid which may differ from actual rates paid due to timing lags and other factors. The Firm's earnings-at-risk scenarios are periodically evaluated and enhanced in response to changes in the composition of the Firm's balance sheet, changes in market conditions, improvements in the Firm's simulation and other factors.

The Firm's U.S. dollar sensitivities are presented in the table below.

JPMorgan Chase's 12-month earnings-at-risk sensitivity profiles

u.s. dollar	Instantaneous change in rates							
(in billions)	+2	00 bps	+	100 bps	-100 bps	-200 bps		
June 30, 2018	\$	1.9	\$	1.0	\$ (2.1)	NM (a)		
December 31, 2017	\$	2.4	\$	1.7	\$ (3.6)	NM (a)		

(a) Given the level of market interest rates, these downward parallel earnings-at-risk scenarios are not considered to be meaningful.

The Firm's sensitivity to rates is largely a result of assets repricing at a faster pace than deposits.

The Firm's net U.S. dollar sensitivities to 200 and 100 basis points instantaneous rate increases each decreased by approximately \$500 million and \$700 million, respectively, while the Firm's net U.S. dollar sensitivity to 100 basis points instantaneous decrease in rates decreased by \$1.5 billion when compared to December 31, 2017. The primary driver of these decreases was the updating of the Firm's baseline to reflect higher interest rates. As higher interest rates are reflected in the Firm's baselines, sensitivities to changes in rates are expected to be less significant.

The non-U.S. dollar sensitivities for an instantaneous increase in rates by 200 and 100 basis points results in a 12-month benefit to net interest income of approximately \$900 million and \$500 million, respectively, at June 30, 2018 and \$800 million and \$500 million, respectively, at December 31, 2017. The non-U.S. dollar sensitivities for an instantaneous decrease in rates by 200 and 100 basis points are not material to the Firm's earnings-at-risk at June 30, 2018 and December 31, 2017.

Separately, another U.S. dollar interest rate scenario used by the Firm — involving a steeper yield curve with long-term rates rising by 100 basis points and short-term rates staying at current levels — results in a 12-month benefit to net interest income of approximately \$500 million and \$700 million at June 30, 2018 and December 31, 2017, respectively. The increase in net interest income under this scenario reflects the Firm reinvesting at the higher long-term rates, with funding costs remaining unchanged. The results of the comparable non-U.S. dollar scenarios are not material to the Firm at June 30, 2018 and December 31, 2017.

Other sensitivity-based measures

The Firm quantifies the market risk of certain investment and funding activities by assessing the potential impact on net revenue and OCI due to changes in relevant market variables. For additional information on the positions captured in other sensitivity-based measures, please refer to the Risk identification and classification table on page 122 of JPMorgan Chase's 2017 Annual Report.

The table below represents the potential impact to net revenue or OCI for market risk-sensitive instruments that are not included in VaR or earnings-at-risk. Where appropriate, instruments used for hedging purposes are reported along with the positions being hedged. The sensitivities disclosed in the table below may not be representative of the actual gain or loss that would have been realized at June 30, 2018 and December 31, 2017, as the movement in market parameters across maturities may vary and are not intended to imply management's expectation of future deterioration in these sensitivities.

Gain/(loss) (in millions)			June 30.	Dece	mber 31.
Activity	Description	Sensitivity measure	2018	Dece	2017
Investment activities					
Investment management activities	Consists of seed capital and related hedges; and fund co-investments	10% decline in market value	\$ (135)	\$	(110)
Other investments	Consists of private equity and other investments held at fair value	10% decline in market value	(266)		(338)
Funding activities					
Non-USD LTD cross-currency basis	Represents the basis risk on derivatives used to hedge the foreign exchange risk on the non-USD LTD ^(a)	1 basis point parallel tightening of cross currency basis	(9)		(10)
Non-USD LTD hedges foreign currency ("FX") exposure	Primarily represents the foreign exchange revaluation on the fair value of the derivative hedges ^(a)	10% depreciation of currency	16		(13)
Derivatives - funding spread risk	Impact of changes in the spread related to derivatives FVA	1 basis point parallel increase in spread	(4)		(6)
Fair value option elected liabilities - funding spread risk	Impact of changes in the spread related to fair value option elected liabilities DVA ^(a)	1 basis point parallel increase in spread	29		22
Fair value option elected liabilities - interest rate sensitivity	Interest rate sensitivity on fair value option liabilities resulting from a change in the Firm's own credit spread ^(a)	1 basis point parallel increase in spread	1		(1)

⁽a) Impact recognized through OCI.

COUNTRY RISK MANAGEMENT

The Firm has a country risk management framework for monitoring and assessing how financial, economic, political or other significant developments adversely affect the value of the Firm's exposures related to a particular country or set of countries. The Country Risk Management group actively monitors the various portfolios giving rise to country risk to ensure the Firm's country risk exposures are diversified and that exposure levels are appropriate given the Firm's strategy and risk tolerance relative to a country.

Country Risk Management periodically designs and runs tailored stress scenarios to test vulnerabilities to individual countries or groups of countries in response to specific or potential market events, sector performance concerns and geopolitical risks. These tailored stress results are used to inform potential risk reduction across the firm, as necessary.

For a further discussion of the Firm's Country Risk Management organization; identification and measurement; stress testing; monitoring and control; and reporting, refer to pages 129–130 of JPMorgan Chase's 2017 Annual Report.

The following table presents the Firm's top 20 exposures by country (excluding the U.S.) as of June 30, 2018. The selection of countries represents the Firm's largest total exposures by country, based on the Firm's internal country risk management approach, and does not represent the Firm's view of any actual or potentially adverse credit conditions. Country exposures may fluctuate from period to period due to client activity and market flows.

Top 20 country exposures (excluding the U.S.)(a)

	June 30, 2018 Lending						
(in billions)	Lending and deposits ^(b)	Trading and investing ^{(c)(d)}	Other ^(e)	Total exposure			
Germany	\$ 50.7	\$ 9.7	\$ 0.2	\$ 60.6			
United Kingdom	25.2	8.5	17.4	51.1			
Japan	27.6	8.9	0.4	36.9			
China	9.4	7.4	1.9	18.7			
France	11.6	5.0	0.5	17.1			
Canada	13.4	3.0	0.1	16.5			
Switzerland	11.1	0.6	3.4	15.1			
India	5.9	5.1	1.4	12.4			
Australia	6.0	5.7	_	11.7			
Luxembourg	8.8	0.4	_	9.2			
Brazil	5.2	3.9	_	9.1			
Netherlands	6.3	1.5	1.2	9.0			
Italy	2.6	4.1	0.2	6.9			
South Korea	3.9	2.7	0.2	6.8			
Hong Kong	3.1	1.2	1.7	6.0			
Singapore	3.3	1.3	1.4	6.0			
Spain	4.5	0.8	0.1	5.4			
Mexico	3.8	1.1	-	4.9			
Saudi Arabia	3.9	0.8	_	4.7			
Ireland	2.3	0.4	1.1	3.8			

- (a) Country exposures above reflect 87% of total firmwide non-U.S. exposure.
- (b) Lending and deposits includes loans and accrued interest receivable (net of collateral and the allowance for loan losses), deposits with banks (including central banks), acceptances, other monetary assets, issued letters of credit net of participations, and unused commitments to extend credit. Excludes intra-day and operating exposures, such as from settlement and clearing activities.
- (c) Includes market-making inventory, AFS securities, counterparty exposure on derivative and securities financings net of collateral and hedging.
- (d) Includes single reference entity ("single-name"), index and other multiple reference entity transactions for which one or more of the underlying reference entities is in a country listed in the above table.
- (e) Includes capital invested in local entities and physical commodity inventory.

JPMorgan Chase's accounting policies and use of estimates are integral to understanding its reported results. The Firm's most complex accounting estimates require management's judgment to ascertain the appropriate carrying value of assets and liabilities. The Firm has established policies and control procedures intended to ensure that estimation methods, including any judgments made as part of such methods, are well-controlled, independently reviewed and applied consistently from period to period. The methods used and judgments made reflect, among other factors, the nature of the assets or liabilities and the related business and risk management strategies, which may vary across the Firm's businesses and portfolios. In addition, the policies and procedures are intended to ensure that the process for changing methodologies occurs in an appropriate manner. The Firm believes its estimates for determining the carrying value of its assets and liabilities are appropriate. The following is a brief description of the Firm's critical accounting estimates involving significant judgments.

Allowance for credit losses

JPMorgan Chase's allowance for credit losses covers the retained consumer and wholesale loan portfolios, as well as the Firm's wholesale and certain consumer lending-related commitments. The allowance for loan losses is intended to adjust the carrying value of the Firm's loan assets to reflect probable credit losses inherent in the loan portfolio as of the balance sheet date. Similarly, the allowance for lending-related commitments is established to cover probable credit losses inherent in the lending-related commitments portfolio as of the balance sheet date.

The allowance for credit losses includes a formula-based component, an asset-specific component, and a component related to PCI loans. The determination of each of these components involves significant judgment on a number of matters. For further information on these components, areas of judgment and methodologies used in establishing the Firm's allowance for credit losses, refer to pages 117-119, page 138 and Note 13 of JPMorgan Chase's 2017 Annual Report; and refer to Allowance for credit losses on pages 67-69 and Note 12 of this Form 10-Q.

As noted in the discussion on page 138 of JPMorgan Chase's 2017 Annual Report, the Firm's allowance for credit losses is sensitive to numerous factors, which may differ depending on the portfolio. Changes in economic conditions or in the Firm's assumptions and estimates could affect its estimate of probable credit losses inherent in the portfolio at the balance sheet date. The Firm uses its best judgment to assess these economic conditions and loss data in estimating the allowance for credit losses and these estimates are subject to periodic refinement based on changes to underlying external or Firm-specific historical data. Refer to Note 12 of this Form 10-Q for further discussion.

To illustrate the potential magnitude of certain alternate judgments, the Firm estimates that changes in the following inputs would have the following effects on the Firm's

modeled credit loss estimates as of June 30, 2018, without consideration of any offsetting or correlated effects of other inputs in the Firm's allowance for loan losses:

- A combined 5% decline in housing prices and a 100 basis point increase in unemployment rates from current levels could imply:
 - an increase to modeled credit loss estimates of approximately \$525 million for PCI loans.
 - an increase to modeled annual credit loss estimates of approximately \$75 million for residential real estate loans, excluding PCI loans.
- For credit card loans, a 100 basis point increase in unemployment rates from current levels could imply an increase to modeled annual credit loss estimates of approximately \$775 million.
- An increase in probability of default ("PD") factors consistent with a one-notch downgrade in the Firm's internal risk ratings for its entire wholesale loan portfolio could imply an increase in the Firm's modeled credit loss estimates of approximately \$1.5 billion.
- A 100 basis point increase in estimated loss given default ("LGD") for the Firm's entire wholesale loan portfolio could imply an increase in the Firm's modeled credit loss estimates of approximately \$175 million.

The purpose of these sensitivity analyses is to provide an indication of the isolated impacts of hypothetical alternative assumptions on modeled loss estimates. The changes in the inputs presented above are not intended to imply management's expectation of future deterioration of those risk factors. In addition, these analyses are not intended to estimate changes in the overall allowance for loan losses, which would also be influenced by the judgment management applies to the modeled loss estimates to reflect the uncertainty and imprecision of these modeled loss estimates based on then-current circumstances and conditions.

It is difficult to estimate how potential changes in specific factors might affect the overall allowance for credit losses because management considers a variety of factors and inputs in estimating the allowance for credit losses. Changes in these factors and inputs may not occur at the same rate and may not be consistent across all geographies or product types, and changes in factors may be directionally inconsistent, such that improvement in one factor may offset deterioration in other factors. In addition, it is difficult to predict how changes in specific economic conditions or assumptions could affect borrower behavior or other factors considered by management in estimating the allowance for credit losses. Given the process the Firm follows and the judgments made in evaluating the risk factors related to its loss estimates, management believes that its current estimate of the allowance for credit losses is appropriate.

Fair value of financial instruments, MSRs and commodities inventory

Assets measured at fair value

The following table includes the Firm's assets measured at fair value and the portion of such assets that are classified within level 3 of the valuation hierarchy. For further information, refer to Note 2.

June 30, 2018 (in millions, except ratios)	To	otal assets at fair value	To	tal level 3 assets
Trading-debt and equity instruments	\$	360.2	\$	4.5
Derivative receivables ^(a)		58.5		7.0
Trading assets		418.7		11.5
AFS securities		202.0		0.1
Loans		3.1		0.2
MSRs		6.2		6.2
Other		30.1		1.3
Total assets measured at fair value on a recurring basis	\$	660.1	\$	19.3
Total assets measured at fair value on a nonrecurring basis		1.6		1.0
Total assets measured at fair value	\$	661.7	\$	20.3
Total Firm assets	\$	2,590.1		
Level 3 assets as a percentage of total Firm assets ^(a)				0.8%
Level 3 assets as a percentage of total Firm assets at fair value ^(a)				3.1%

(a) For purposes of the table above, the derivative receivables total reflects the impact of netting adjustments; however, the \$7.0 billion of derivative receivables classified as level 3 does not reflect the netting adjustment as such netting is not relevant to a presentation based on the transparency of inputs to the valuation of an asset. The level 3 balances would be reduced if netting were applied, including the netting benefit associated with cash collateral.

Valuation

Estimating fair value requires the application of judgment. The type and level of judgment required is largely dependent on the amount of observable market information available to the Firm. For instruments valued using internally developed valuation models and other valuation techniques that use significant unobservable inputs and are therefore classified within level 3 of the valuation hierarchy, judgments used to estimate fair value are more significant than those required when estimating the fair value of instruments classified within levels 1 and 2.

In arriving at an estimate of fair value for an instrument within level 3, management must first determine the appropriate valuation technique to use. Second, the lack of observability of certain significant inputs requires management to assess all relevant empirical data in deriving valuation inputs including, for example, transaction details, yield curves, interest rates, prepayment rates, default rates, volatilities, correlations, equity or debt prices, valuations of comparable instruments, foreign exchange rates and credit curves. For a further discussion of the valuation of level 3 instruments, including unobservable inputs used, refer to Note 2.

For instruments classified in levels 2 and 3, management judgment must be applied to assess the appropriate level of valuation adjustments to reflect counterparty credit quality, the Firm's creditworthiness, market funding rates, liquidity considerations, unobservable parameters, and for portfolios that meet specified criteria, the size of the net open risk position. The judgments made are typically affected by the type of product and its specific contractual terms, and the level of liquidity for the product or within the market as a whole. For a further discussion of valuation adjustments applied by the Firm refer to Note 2.

Imprecision in estimating unobservable market inputs or other factors can affect the amount of gain or loss recorded for a particular position. Furthermore, while the Firm believes its valuation methods are appropriate and consistent with those of other market participants, the methods and assumptions used reflect management judgment and may vary across the Firm's businesses and portfolios.

The Firm uses various methodologies and assumptions in the determination of fair value. The use of methodologies or assumptions different than those used by the Firm could result in a different estimate of fair value at the reporting date. For a detailed discussion of the Firm's valuation process and hierarchy, and its determination of fair value for individual financial instruments, refer to Note 2.

Goodwill impairment

Management applies significant judgment when testing goodwill for impairment. The goodwill associated with each business combination is allocated to the related reporting units for goodwill impairment testing. For a description of the significant valuation judgments associated with goodwill impairment, refer to Goodwill impairment on pages 139-140 of JPMorgan Chase's 2017 Annual Report.

For the three months ended June 30, 2018, the Firm reviewed current economic conditions, business performance, the current estimated market cost of equity, and prior projections of business performance for all its businesses. Based upon such reviews, the Firm concluded that the goodwill allocated to its reporting units was not impaired as of June 30, 2018.

Declines in business performance, increases in credit losses, increases in equity capital requirements, as well as deterioration in economic or market conditions, adverse regulatory or legislative changes or increases in the estimated market cost of equity, could cause the estimated fair values of the Firm's reporting units or their associated goodwill to decline in the future, which could result in a material impairment charge to earnings in a future period related to some portion of the associated goodwill.

For additional information on goodwill, refer to Note 14.

Credit card rewards liability

JPMorgan Chase offers credit cards with various rewards programs which allow cardholders to earn rewards points based on their account activity and the terms and conditions of the rewards program. Generally, there are no limits on the points that an eligible cardholder can earn, nor do the points expire, and the points can be redeemed for a variety of rewards, including cash (predominantly in the form of account credits), gift cards and travel. The Firm maintains a rewards liability which represents the estimated cost of rewards points earned and expected to be redeemed by cardholders. The rewards liability is sensitive to various assumptions, including cost per point and redemption rates for each of the various rewards programs, which are evaluated periodically. The liability is accrued as the cardholder earns the benefit and is reduced when the cardholder redeems points. This liability was \$5.5 billion and \$4.9 billion at June 30, 2018 and December 31, 2017, respectively, and is recorded in accounts payable and other liabilities on the Consolidated balance sheets.

Income taxes

For a description of the significant assumptions, judgments and interpretations associated with the accounting for income taxes, refer to Note 1, and Income taxes on page 140 of JPMorgan Chase's 2017 Annual Report.

Litigation reserves

For a description of the significant estimates and judgments associated with establishing litigation reserves, refer to Note 22 of this Form 10-Q, and Note 29 of JPMorgan Chase's 2017 Annual Report.

Financial Accounting Standards Board ("FASB") Standards Adopted since January 1, 2018

Standard	Summary of guidance	Effects on financial statements
Revenue recognition - revenue from contracts with customers Issued May 2014	 Requires that revenue from contracts with customers be recognized upon transfer of control of a good or service in the amount of consideration expected to be received. Changes the accounting for certain contract costs, including whether they may be offset against revenue in the Consolidated statements of income, and requires additional disclosures about revenue and contract costs. 	 Adopted January 1, 2018. For further information, refer to Note 1.
Recognition and measurement of financial assets and financial liabilities	Requires that certain equity instruments be measured at fair value, with changes in fair value recognized in earnings.	 Adopted January 1, 2018. For further information, refer to Note 1.
Issued January 2016	 Provides a measurement alternative for equity securities without readily determinable fair values to be measured at cost less impairment (if any), plus or minus observable price changes from an identical or similar investment of the same issuer. Any such price changes are reflected in earnings beginning in the period of adoption. 	
Classification of certain cash receipts and cash payments in the statement of cash flows Issued August 2016	 Provides targeted amendments to the classification of certain cash flows, including the treatment of settlement payments for zero coupon debt instruments and distributions received from equity method investments. 	 Adopted January 1, 2018. The adoption of the guidance had no material impact as the Firm was either in compliance with the amendments or the amounts to which it was applied were immaterial.
Treatment of restricted cash on the statement of cash flows Issued November 2016	 Requires restricted cash to be combined with unrestricted cash when reconciling the beginning and ending cash balances on the Consolidated statements of cash flows. Requires additional disclosures to supplement the Consolidated statements of cash flows. 	 Adopted January 1, 2018 For further information, refer to Note 1.

FASB Standards Adopted since January 1, 2018 (continued)

Standard	Summary of guidance	Effects on financial statements
Definition of a business Issued January 2017	 Narrows the definition of a business and clarifies that, to be considered a business, substantially all of the fair value of the gross assets acquired (or disposed of) may not be concentrated in a single identifiable asset or a group of similar assets. In addition, the definition now requires that a set of activities and assets must include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create outputs. 	 Adopted January 1, 2018. The adoption of the guidance had no impact because it is being applied prospectively. Subsequent to adoption, fewer transactions will be treated as acquisitions or dispositions of a business.
Presentation of net periodic pension cost and net periodic postretirement benefit cost Issued March 2017	Requires the service cost component of net periodic pension and postretirement benefit cost to be reported separately in the Consolidated statements of income from the other components (e.g., expected return on assets, interest costs, amortization of gains/losses and prior service costs).	 Adopted January 1, 2018. For further information, refer to Note 1.
Premium amortization on purchased callable debt securities Issued March 2017	 Requires amortization of premiums to the earliest call date on debt securities with call features that are explicit, noncontingent and callable at fixed prices and on preset dates. Does not impact debt securities held at a discount; the discount continues to be amortized to the contractual maturity date. 	 Adopted January 1, 2018. For further information, refer to Note 1.
Hedge accounting Issued August 2017	 Aligns the accounting with the economics of the risk management activities. Expands the ability for certain hedges of interest rate risk to qualify for hedge accounting. Allows recognition of ineffectiveness in cash flow hedges and net investment hedges in OCI. Permits an election at adoption to transfer certain investment securities classified as held-to-maturity to available-for-sale. Simplifies hedge documentation requirements. 	Adopted January 1, 2018. For further information, refer to Note 1.
Reclassification of certain tax effects from AOCI Issued February 2018	Permits reclassification of the income tax effects of the TCJA on items within AOCI to retained earnings so that the tax effects of items within AOCI reflect the appropriate tax rate.	 Adopted January 1, 2018. For further information, refer to Note 1.

Standard	Summary of guidance	Effects on financial statements
Leases Issued February 2016	 Requires lessees to recognize all leases longer than twelve months on the Consolidated balance sheets as a lease liability with a corresponding right-of-use asset. Requires lessees and lessors to classify most leases using principles similar to existing lease accounting, but eliminates the "bright line" classification tests. Permits the Firm to generally account for its existing leases consistent with current guidance, except for the incremental balance sheet recognition. Expands qualitative and quantitative leasing disclosures. May be adopted using a modified cumulative effect approach wherein the guidance is applied only to existing contracts as of the date of initial application, and to new contracts transacted after that date, or a cumulative-effect adjustment to retained earnings at the effective date. 	 Required effective date: January 1, 2019. (a) The Firm is in the process of its implementation which includes evaluating its leasing activities and certain contracts for embedded leases, implementing a new lease accounting software solution for its real estate leases, and updating processes and internal controls for its leasing activities. As a lessee, the Firm is developing its estimate of the right-of-use asset and lease liability, which is based on the present value of lease payments. The Firm expects to recognize a lease liability and a corresponding right-of-use asset (at their present value) related to predominantly all of the \$10 billion of future minimum payments required under operating leases as disclosed in Note 28 of JPMorgan Chase's 2017 Annual Report. However, the population of contracts subject to balance sheet recognition and their initial measurement remains under evaluation; final financial statement impacts will depend on the lease portfolio at the time of adoption. The Firm does not expect material changes to the recognition of operating lease expense in its Consolidated statements of income. The Firm plans to adopt the new lease guidance on January 1, 2019 and elect the available practical expedients, which will not require it to reassess whether an existing contract contains a lease or whether classification or unamortized initial lease costs would be different under the new lease guidance.
Financial instruments - credit losses Issued June 2016	 Replaces existing incurred loss impairment guidance and establishes a single allowance framework for financial assets carried at amortized cost, which will reflect management's estimate of credit losses over the full remaining expected life of the financial assets. Eliminates existing guidance for PCI loans, and requires recognition of an allowance for expected credit losses on financial assets purchased with more than insignificant credit deterioration since origination. Amends existing impairment guidance for AFS securities to incorporate an allowance, which will allow for reversals of credit impairments in the event that the credit of an issuer improves. Requires a cumulative-effect adjustment to retained earnings as of the beginning of the reporting period of adoption. 	 Required effective date: January 1, 2020. (a) The Firm has established a Firmwide, cross-discipline governance structure, which provides implementation oversight. The Firm continues to identify key interpretive issues, and is in the process of developing and implementing current expected credit loss models that satisfy the requirements of the new standard. The Firm expects that the new guidance will result in an increase in its allowance for credit losses due to several factors, including: The allowance related to the Firm's loans and commitments will increase to cover credit losses over the full remaining expected life of the portfolio, and will consider expected future changes in macroeconomic conditions The nonaccretable difference on PCI loans will be recognized as an allowance, which will be offset by an increase in the carrying value of the related loans An allowance will be established for estimated credit losses on non-agency HTM securities The extent of the increase in the allowance is under evaluation, but will depend upon the nature and characteristics of the Firm's portfolio at the adoption date, and the macroeconomic conditions and forecasts at that date. The Firm plans to adopt the new guidance on January 1, 2020.
Goodwill Issued January 2017	Requires an impairment loss to be recognized when the estimated fair value of a reporting unit falls below its carrying value.	 Required effective date: January 1, 2020. (a) Based on current impairment test results, the Firm does not expect a material effect on the Consolidated Financial Statements. However, the impact of the new accounting guidance will depend on the performance of the reporting units and the performance of the performan

(a) Early adoption is permitted.

carrying value.

• Eliminates the second condition in the

impairment loss to be recognized only if

the estimated implied fair value of the

goodwill is below its carrying value.

current guidance that requires an

accounting guidance will depend on the performance of the reporting units and the

• After adoption, the guidance may result in more frequent goodwill impairment losses

market conditions at the time of adoption.

due to the removal of the second condition.

• The Firm plans to adopt the new guidance on January 1, 2020.

FORWARD-LOOKING STATEMENTS

From time to time, the Firm has made and will make forward-looking statements. These statements can be identified by the fact that they do not relate strictly to historical or current facts. Forward-looking statements often use words such as "anticipate," "target," "expect," "estimate," "intend," "plan," "goal," "believe," or other words of similar meaning. Forward-looking statements provide JPMorgan Chase's current expectations or forecasts of future events, circumstances, results or aspirations. JPMorgan Chase's disclosures in this Form 10-Q contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. The Firm also may make forward-looking statements in its other documents filed or furnished with the SEC. In addition, the Firm's senior management may make forward-looking statements orally to investors, analysts, representatives of the media and others.

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

- Local, regional and global business, economic and political conditions and geopolitical events;
- Changes in laws and regulatory requirements, including capital and liquidity requirements affecting the Firm's businesses, and the ability of the Firm to address those requirements;
- Heightened regulatory and governmental oversight and scrutiny of JPMorgan Chase's business practices, including dealings with retail customers;
- · Changes in trade, monetary and fiscal policies and laws;
- · Changes in income tax laws and regulations;
- Securities and capital markets behavior, including changes in market liquidity and volatility;
- Changes in investor sentiment or consumer spending or savings behavior;
- Ability of the Firm to manage effectively its capital and liquidity, including approval of its capital plans by banking regulators;
- Changes in credit ratings assigned to the Firm or its subsidiaries;
- Damage to the Firm's reputation;
- Ability of the Firm to deal effectively with an economic slowdown or other economic or market disruption;
- Technology changes instituted by the Firm, its counterparties or competitors;

- The success of the Firm's business simplification initiatives and the effectiveness of its control agenda;
- Ability of the Firm to develop new products and services, and the extent to which products or services previously sold by the Firm (including but not limited to mortgages and asset-backed securities) require the Firm to incur liabilities or absorb losses not contemplated at their initiation or origination;
- Acceptance of the Firm's new and existing products and services by the marketplace and the ability of the Firm to innovate and to increase market share;
- Ability of the Firm to attract and retain qualified employees;
- Ability of the Firm to control expenses;
- Competitive pressures;
- Changes in the credit quality of the Firm's customers and counterparties;
- Adequacy of the Firm's risk management framework, disclosure controls and procedures and internal control over financial reporting;
- Adverse judicial or regulatory proceedings;
- Changes in applicable accounting policies, including the introduction of new accounting standards;
- Ability of the Firm to determine accurate values of certain assets and liabilities;
- Occurrence of natural or man-made disasters or calamities or conflicts and the Firm's ability to deal effectively with disruptions caused by the foregoing;
- Ability of the Firm to maintain the security of its financial, accounting, technology, data processing and other operational systems and facilities;
- Ability of the Firm to withstand disruptions that may be caused by any failure of its operational systems or those of third parties;
- Ability of the Firm to effectively defend itself against cyberattacks and other attempts by unauthorized parties to access information of the Firm or its customers or to disrupt the Firm's systems; and
- The other risks and uncertainties detailed in Part I, Item 1A: Risk Factors in JPMorgan Chase's 2017 Annual Report on Form 10-K for the year ended December 31, 2017.

Any forward-looking statements made by or on behalf of the Firm speak only as of the date they are made, and JPMorgan Chase does not undertake to update any forward-looking statements. The reader should, however, consult any further disclosures of a forward-looking nature the Firm may make in any subsequent Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, or Current Reports on Form 8-K.

JPMorgan Chase & Co. Consolidated statements of income (unaudited)

	Three months ended June 30,			Six months ended June 30,				
(in millions, except per share data)		2018		2017		2018		2017
Revenue								
Investment banking fees	\$	2,168	\$	1,846	\$	3,904	\$	3,726
Principal transactions		3,782		3,137		7,734		6,719
Lending- and deposit-related fees		1,495		1,482		2,972		2,930
Asset management, administration and commissions		4,304		4,047		8,613		7,924
Investment securities losses		(80)		(34)		(325)		(37)
Mortgage fees and related income		324		404		789		810
Card income		1,020		1,167		2,295		2,081
Other income		1,255		1,474		2,881		2,245
Noninterest revenue		14,268		13,523		28,863		26,398
Interest income		18,869		15,650		36,564		30,692
Interest expense		5,384		3,442		9,767		6,420
Net interest income		13,485		12,208		26,797		24,272
Total net revenue		27,753		25,731		55,660		50,670
Provision for credit losses		1,210		1,215		2,375		2,530
Noninterest expense								
Compensation expense		8,338		7,757		17,200		16,013
Occupancy expense		981		912		1,869		1,873
Technology, communications and equipment expense		2,168		1,871		4,222		3,705
Professional and outside services		2,126		1,899		4,247		3,691
Marketing		798		756		1,598		1,469
Other expense		1,560		1,572		2,915		3,299
Total noninterest expense		15,971		14,767		32,051		30,050
Income before income tax expense		10,572		9,749		21,234		18,090
Income tax expense		2,256		2,720		4,206		4,613
Net income	\$	8,316	\$	7,029	\$	17,028	\$	13,477
Net income applicable to common stockholders	\$	7,880	\$	6,555	\$	16,119	\$	12,531
Net income per common share data								
Basic earnings per share	\$	2.31	\$	1.83	\$	4.69	\$	3.49
Diluted earnings per share		2.29		1.82		4.66		3.47
Weighted-average basic shares		3,415.2		3,574.1		3,436.7		3,587.9
Weighted-average diluted shares		3,434.7		3,599.0		3,457.1		3,614.7
Cash dividends declared per common share	\$	0.56	\$	0.50	\$	1.12	\$	1.00

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

JPMorgan Chase & Co.
Consolidated statements of comprehensive income (unaudited)

	Three months ended June 30,			ded
(in millions)	2018	2017	2018	2017
Net income	\$ 8,316 \$	7,029	\$ 17,028 \$	13,477
Other comprehensive income/(loss), after-tax				
Unrealized gains/(losses) on investment securities	(227)	457	(1,461)	695
Translation adjustments, net of hedges	88	_	115	7
Fair value hedges	(68)	NA	(108)	NA
Cash flow hedges	(166)	53	(239)	144
Defined benefit pension and OPEB plans	38	19	59	4
DVA on fair value option elected liabilities	260	2	527	(67)
Total other comprehensive income/(loss), after-tax	 (75)	531	(1,107)	783
Comprehensive income	\$ 8,241 \$	7,560	\$ 15,921 \$	14,260

Effective January 1, 2018, the Firm adopted several new accounting standards. For additional information, refer to Note 1.

JPMorgan Chase & Co. Consolidated balance sheets (unaudited)

Loans, net of allowance for loan losses 935,164 917,093 Accrued interest and accounts receivable 75,669 67,729 Premises and equipinent 14,132 14,159 Goodwill, MSRs and other intangible assets 54,533 513,857 Total assets (included \$13,669 and \$1,128 at fair value and assets pledged of \$5,559 and \$7,800 118,805 2,533,600 Libilities 8,1452,122 \$1,443,082 51,843,082 Federal funds purchased and securities loaned or sold under repurchase agreements (included \$19,696 and \$21,321 at fair value) 63,918 15,802 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 15,802 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 123,603 Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$1,633 and \$9,208 at fair value) 26,332 26,068 Boneficial interests issued by consolidated VIES (included \$1 and \$45 at fair value) 27,311 28,008 Total liabilities 22,325,20 22,77,907 Total liabilities 25,006 25,006 25,008 Total liabilities (included \$1,000,0	(in millions, except share data)	Jı	ın 30, 2018	De	ec 31, 2017
Deposits with banks 381,500 405,406 Federal funds sold abscurities purchased under resale agreements (included \$12,793 and \$14,732 at fair value) 206,504 109,812 Greurifies borrowed (included \$4,052 and \$3,049 at fair value) 418,799 381,844 Investment securities (included \$202,009 and \$202,225 at fair value and assets pledged of \$13,307 and \$2,508 at fair value) 494,841 303,095 Loans, fincluded \$3,076 and \$2,508 at fair value) 935,164 913,609 Idownse for Ioan losses 75,669 67,729 Riccured interest and accounts receivable 75,669 67,729 Premises and equipment 118,05 113,507 Total assets included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,900 218,805 113,508 Total assets included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,900 218,805 21,432 Total assets included \$13,869 and \$16,128 at fair value and asset pledged of \$5,559 and \$7,900 218,805 13,432 Total assets included \$13,869 and \$16,128 at fair value and asset pledged of \$5,559 and \$7,900 218,805 14,415 Total billities 1,509,600 21,802 1,445,902 Total fair value <	Assets				
Federal funds sold and securities purchased under resale agreements (included \$12,793 and \$14,732 at fair value) 108,245 105,112 Securities borrowed (included \$4,052 and \$1,2049 at fair value) 108,246 105,112 Trading assets (included assets pledged of \$121,495 and \$109,887) 418,799 381,844 Loans (included \$3,076 and \$2,508 at fair value) 948,414 930,697 Allowance for loan losses 935,164 917,093 Accrued interest and accounts receivable 75,669 67,729 Premises and equipment 16,325 54,335 Goodwill, MSRs and other intangible assets 75,669 87,392 Total assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980 118,805 113,539 Total assets (included \$13,869 and \$1,321 at fair value and assets pledged of \$5,559 and \$7,980 \$18,805 113,539 Total assets (included \$13,696 and \$2,321 at fair value \$1,452,122 \$1,443,808 Tederal funds purchased and securities loaned or sold under repurchase agreements (included \$86 and \$67) 15,529 15,896 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 13,29 15,816 Short-term borrowings (included \$1,60,33 and \$9,208 at fair value)	Cash and due from banks	\$	23,680	\$	25,898
Securities borrowed (included \$4,052 and \$1,049 at fair value) 108,246 105,112 Trading assets (included assets pledged of \$1,21,495 and \$10,9887) 418,795 249,758 \$17,969) 233,01 249,058 Loans (included \$3,076 and \$2,508 at fair value) 91,460 101,250 101,800 Allowance for loan losses 93,161 91,709 107,003 Accrued interest and accounts receivable 75,669 67,729 Premises and equipment 14,132 11,132 Godwill, MSRs and other intangible assets 54,535 54,303 Other assets (included \$13,869 and \$1,6128 at fair value and assets pledged of \$5,559 and \$7,809 \$18,805 52,533,809 Total assets (included \$19,696 and \$21,321 at fair value) \$1,802 \$1,443,82 \$1,453,18 Total assets (included \$19,696 and \$21,321 at fair value) \$1,852,12 \$1,843,82 \$1,852,12 \$1,843,88 Tederal funds purchased and securities loaned or sold under repurchase agreements (included \$86,633) \$1,852,12 \$1,843,88 \$1,852,12 \$1,843,88 \$1,852,12 \$1,843,88 \$1,852,12 \$1,843,88 \$1,852,12 \$1,843,88 \$1,852,12	Deposits with banks		381,500		405,406
Trading assets (included assets pledged of \$121,495 and \$109,887) 418,799 331,015 249,958 Lones (included \$202,009 and \$202,225 at fair value and assets pledged of \$13,307 233,015 249,958 Loans (included \$3,076 and \$2,508 at fair value) 948,414 300,697 Allowance for Ioan losses 935,16 113,609 Accrued interest and accounts receivable 75,669 67,729 Premises and equipment 54,535 54,535 Goodwill, MSRs and other intangible assets 54,535 54,535 Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980) 118,805 113,805 Total assets ¹⁰ \$1,805 \$1,432 \$1,432 Italiant limits \$1,805 \$1,432 \$1,432 Ederal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$69) \$1,812 \$1,443,808 Fobersits (included \$8,730 and \$9,191 at fair value) 63,918 51,816 Fobersit final bilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 23,31,29 22,77,97 Tockholders'equity	Federal funds sold and securities purchased under resale agreements (included \$12,793 and \$14,732 at fair value)		226,505		198,422
Investment securities (included \$202,009 and \$202,225 at fair value and assets pledged of \$13,307 and \$17,969) 233,015 249,958 Loans (included \$3,076 and \$2,508 at fair value) 948,414 930,607 Allowance for loan losses 935,604 101,3260 101,3060 Couns, net of allowance for loan losses 935,604 97,706 67,729 Accrued interest and accounts receivable 75,669 67,729 Premises and equipment 14,132 14,132 14,159 Goodwill, MSRs and other intangible assets 54,250 52,500.50 25,303,00 Total assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980) 118,060 13,800 Understanding liabilities 2,500,000 \$1,800 \$1,800 Ederal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$60) 175,293 158,916 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 149,813 123,802 Including liabilities 149,813 123,803 Received with (included \$6,633 and \$9,208 at fair value) 216,948 189,813 Beneficial interests issued by consolidated VIEs (included \$1,134 at yalue) </td <td>Securities borrowed (included \$4,052 and \$3,049 at fair value)</td> <td></td> <td>108,246</td> <td></td> <td>105,112</td>	Securities borrowed (included \$4,052 and \$3,049 at fair value)		108,246		105,112
\$17,969 948,414 930,697 Allowance for loan losses 948,414 930,697 Allowance for loan losses 935,164 917,093 Accrued interest and accounts receivable 75,669 67,729 75,669 75,729 75,60	Trading assets (included assets pledged of \$121,495 and \$109,887)		418,799		381,844
Allowance for loan losses (13,250) (13,060) Loans, net of allowance for loan losses 935,164 917,093 Accrued interest and accounts receivable 75,669 67,729 Premises and equipment 14,132 14,132 Godwill, MSRs and other intangible assets 54,533 54,329 Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980) 118,065 52,33,000 Libilities 2 5,551,222 \$1,545,122 \$1,543,20 \$1,545,122 \$1,549,30 Ederal funds purchased and securities loaned or sold under repurchase agreements (included \$86 and \$9.7 \$1,52,92 \$1,589,10 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 61,93 \$1,589,10 Foreitial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 196,93 \$1,893,83 Recipical interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323,93 22,71,90 Total libilities (included \$1,000 and \$47,519 at fair value) 23,32,59 22,71,90 Commitments and contingencies (refer to Notes 20,21 and 22) 22,32,59 22,77,90 Total libilities (included \$1,000 and \$1,000 and \$1			233,015		249,958
Loans, net of allowance for loan losses 935,164 917,093 Accrued interest and accounts receivable 75,669 67,729 Premises and equipment 14,132 14,132 Goodwill, MSRs and other intangible assets 54,339 54,339 Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,900 118,805 13,587 Total assets ^(a) \$2,590,000 \$2,533,000 Bederal funds purchased and securities loaned or sold under repurchase agreements (included \$19,696 and \$21,321 at fair value) 61,52,122 \$1,643,082 Federal funds purchased and securities loaned or sold under repurchase agreements (included \$19,696 and \$21,321 at fair value) 61,95,212 \$1,589,162 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 19,092 123,203 123,603 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 19,093 123,603 123,603 Accounts payable and other liabilities (included \$1,633 and \$9,208 at fair value) 21,323 26,081 Indigitablities (included \$1,635 and \$1,519 at fair value) 23,315 25,77,108 Indigitablities (included \$1,636 and \$2,519 at fair value) 23,315 26,081 India	Loans (included \$3,076 and \$2,508 at fair value)		948,414		930,697
Accrued interest and accounts receivable 75,669 677,299 Premies and equipment 14,132 14,159 Goodwill, MSRs and other intangible assets 54,392 13,805 Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980) 118,805 \$2,333,000 Cibal interest 25,000 \$2,00	Allowance for loan losses		(13,250)		(13,604)
Premises and equipment 14,132 14,159 Goodwill, MSRs and other intangible assets 54,535 54,302 Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,599 and \$7,980) 118,805 113,887 Total assets ^(a) 2,590,000 \$2,533,000 Liabilities \$1,452,122 \$1,443,882 Ederal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$697) 175,293 \$1,890,80 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,890,80 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,800,80 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,800,80 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,800,80 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,800,80 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,800,80 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,800,80 Counts payable and other liabilities (included \$1,912,911 at fair value) 21,912 22,711,91	Loans, net of allowance for loan losses		935,164		917,093
Goodwill, MSRs and other intangible assets 54,535 54,392 Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980) 118,805 113,587 Total assets (included \$19,696 and \$1,321 at fair value) 2,590,000 \$1,452,122 \$1,443,982 Federal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$697) 175,293 \$15,801 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 \$1,802 Trading liabilities 149,338 123,668 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 169,684 189,383 Accounts payable and other liabilities (included \$1 and \$45 at fair value) 21,323 26,081 Ingesterm debt (included \$50,096 and \$47,519 at fair value) 27,311 284,080 Total liabilities 2,332,592 2,277,907 Torreferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Retained earnings 4,105 4,105 Accumulated other comprehensive loss 1,107	Accrued interest and accounts receivable		75,669		67,729
Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980) 118,805 113,587 Total assets (included \$19,696 and \$21,321 at fair value) \$2,590,050 \$2,533,600 Deposits (included \$19,696 and \$21,321 at fair value) \$1,452,122 \$1,443,982 Federal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$697 at fair value) 175,293 158,916 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 51,802 Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities(a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) 5 2	Premises and equipment		14,132		14,159
Total assets (a) \$ 2,590,050 \$ 2,533,000 Liabilities Deposits (included \$19,696 and \$21,321 at fair value) \$ 1,452,122 \$ 1,443,982 Federal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$697 at fair value) 175,293 158,916 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 51,802 Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities (a) 2332,592 2,277,907 Stockholders' equity 26,068 26,068 Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated othe	Goodwill, MSRs and other intangible assets		54,535		54,392
Liabilities \$ 1,452,122 \$ 1,443,982 Deposits (included \$19,696 and \$21,321 at fair value) 175,293 158,916 Federal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$697 at fair value) 175,293 158,916 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 51,802 Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) 5tockholders' equity 26,068 26,068 Common stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 <tr< td=""><td>Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980)</td><td></td><td>118,805</td><td></td><td>113,587</td></tr<>	Other assets (included \$13,869 and \$16,128 at fair value and assets pledged of \$5,559 and \$7,980)		118,805		113,587
Deposits (included \$19,696 and \$21,321 at fair value) \$ 1,452,122 \$ 1,443,982 Federal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$697 at fair value) 175,293 158,916 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 51,802 Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) 250,068 26,068 Common stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings (1,138) (119 Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) <td>Total assets^(a)</td> <td>\$</td> <td>2,590,050</td> <td>\$</td> <td>2,533,600</td>	Total assets ^(a)	\$	2,590,050	\$	2,533,600
Federal funds purchased and securities loaned or sold under repurchase agreements (included \$866 and \$697 at fair value) 175,293 158,916 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 51,802 Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities ^(a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) 5tockholders' equity 26,068 26,068 Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (50,829)	Liabilities				
at fair value) 175,293 158,916 Short-term borrowings (included \$8,730 and \$9,191 at fair value) 63,918 51,802 Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities(a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) 550ckholders' equity 550ckholders' equity Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595)	Deposits (included \$19,696 and \$21,321 at fair value)	\$	1,452,122	\$	1,443,982
Trading liabilities 149,838 123,663 Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities ^(a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) 5tockholders' equity 5tockholders' equity Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693			175,293		158,916
Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value) 196,984 189,383 Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities ^(a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) Stockholders' equity 26,068	Short-term borrowings (included \$8,730 and \$9,191 at fair value)		63,918		51,802
Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value) 21,323 26,081 Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities (a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) Stockholders' equity Stockholders' equity Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Trading liabilities		149,838		123,663
Long-term debt (included \$50,096 and \$47,519 at fair value) 273,114 284,080 Total liabilities ^(a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) Stockholders' equity 26,068 26,068 Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Accounts payable and other liabilities (included \$6,633 and \$9,208 at fair value)		196,984		189,383
Total liabilities (a) 2,332,592 2,277,907 Commitments and contingencies (refer to Notes 20, 21 and 22) Stockholders' equity Stockholders' equity Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Beneficial interests issued by consolidated VIEs (included \$1 and \$45 at fair value)		21,323		26,081
Commitments and contingencies (refer to Notes 20, 21 and 22) Stockholders' equity Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Long-term debt (included \$50,096 and \$47,519 at fair value)		273,114		284,080
Stockholders' equity Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares) 26,068 26,068 Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Total liabilities ^(a)		2,332,592		2,277,907
Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares) 4,105 4,105 Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693					
Additional paid-in capital 89,392 90,579 Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Preferred stock (\$1 par value; authorized 200,000,000 shares; issued 2,606,750 shares)		26,068		26,068
Retained earnings 189,881 177,676 Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares)		4,105		4,105
Accumulated other comprehensive loss (1,138) (119) Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Additional paid-in capital		89,392		90,579
Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares) (21) (21) Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Retained earnings		189,881		177,676
Treasury stock, at cost (744,049,788 and 679,635,064 shares) (50,829) (42,595) Total stockholders' equity 257,458 255,693	Accumulated other comprehensive loss		(1,138)		(119)
Total stockholders' equity 255,693	Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares)		(21)		(21)
Total stockholders' equity 255,693	Treasury stock, at cost (744,049,788 and 679,635,064 shares)		(50,829)		(42,595)
Total liabilities and stockholders' equity \$ 2,590,050 \$ 2,533,600			257,458		
	Total liabilities and stockholders' equity	\$	2,590,050	\$	2,533,600

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

(a) The following table presents information on assets and liabilities related to VIEs that are consolidated by the Firm at June 30, 2018, and December 31, 2017. The assets of the consolidated VIEs are used to settle the liabilities of those entities. The holders of the beneficial interests generally do not have recourse to the general credit of JPMorgan Chase. The assets and liabilities in the table below include third-party assets and liabilities of consolidated VIEs and exclude intercompany balances that eliminate in consolidation. For a further discussion, refer to Note 13.

(in millions)	Jun 30, 2018	De	c 31, 2017
Assets			
Trading assets	\$ 1,514	\$	1,449
Loans	58,404		68,995
All other assets	2,412		2,674
Total assets	\$ 62,330	\$	73,118
Liabilities			
Beneficial interests issued by consolidated VIEs	\$ 21,323	\$	26,081
All other liabilities	333		349
Total liabilities	\$ 21,656	\$	26,430

JPMorgan Chase & Co. Consolidated statements of changes in stockholders' equity (unaudited)

	Six months ended J			June 30,	
(in millions, except per share data)		2018		2017	
Preferred stock					
Balance at January 1 and June 30	\$	26,068	\$	26,068	
Common stock					
Balance at January 1 and June 30		4,105		4,105	
Additional paid-in capital					
Balance at January 1		90,579		91,627	
Shares issued and commitments to issue common stock for employee shared-based compensation awards, and related tax effects		(1,076)		(865)	
Other		(111)		(158)	
Balance at June 30		89,392		90,604	
Retained earnings					
Balance at January 1		177,676		162,440	
Cumulative effect of changes in accounting principles		(183)		-	
Net income		17,028		13,477	
Dividends declared:					
Preferred stock		(788)		(823)	
Common stock (\$1.12 and \$1.00 per share)		(3,852)		(3,606)	
Balance at June 30		189,881		171,488	
Accumulated other comprehensive income/(loss)					
Balance at January 1		(119)		(1,175)	
Cumulative effect of changes in accounting principles		88		_	
Other comprehensive income/(loss)		(1,107)		783	
Balance at June 30		(1,138)		(392)	
Shares held in RSU Trust, at cost					
Balance at January 1 and June 30		(21)		(21)	
Treasury stock, at cost					
Balance at January 1		(42,595)		(28,854)	
Repurchase		(9,639)		(5,839)	
Reissuance		1,405		1,324	
Balance at June 30		(50,829)		(33,369)	
Total stockholders' equity	\$	257,458	\$	258,483	

Effective January 1, 2018, the Firm adopted several new accounting standards. For additional information, refer to Note 1.

JPMorgan Chase & Co. Consolidated statements of cash flows (unaudited)

		Six months ende	ed June	30,
(in millions)		2018		2017
Operating activities		,		
Net income	\$	17,028	\$	13,477
Adjustments to reconcile net income to net cash used in operating activities:				
Provision for credit losses		2,375		2,530
Depreciation and amortization		3,724		2,968
Deferred tax (benefit)/expense		(216)		(161
Other		1,611		1,163
Originations and purchases of loans held-for-sale		(43,141)		(58,119
Proceeds from sales, securitizations and paydowns of loans held-for-sale		41,657		53,053
Net change in:		•		,
Trading assets		(42,859)		(22,914
Securities borrowed		(3,132)		5,845
Accrued interest and accounts receivable		(8,083)		(11,940
Other assets		(716)		11,212
Trading liabilities		21,997		(12,827
Accounts payable and other liabilities		12,574		(10,497
Other operating adjustments		(2,243)		7,724
Net cash provided by/(used in) operating activities		576		(18,486
Investing activities				(==,:==
Net change in:				
Federal funds sold and securities purchased under resale agreements		(28,109)		11,364
Held-to-maturity securities:		(20,10)		11,501
Proceeds from paydowns and maturities		1,458		2,289
Purchases		(7,426)		_,207
Available-for-sale securities:		(7,120)		
Proceeds from paydowns and maturities		19,718		29,481
Proceeds from sales		25,228		42,972
Purchases		(27,453)		(45,613
Proceeds from sales and securitizations of loans held-for-investment		12,963		7,762
Other changes in loans, net		(33,441)		(24,266
All other investing activities, net		(1,912)		550
Net cash provided by/(used in) investing activities		(38,974)		24,539
Financing activities		(00,000)		
Net change in:				
Deposits		10,100		53,122
Federal funds purchased and securities loaned or sold under repurchase agreements		16,396		(43
Short-term borrowings		12,151		18,222
Beneficial interests issued by consolidated VIEs		(165)		(1,067
Proceeds from long-term borrowings		41,166		35,530
Payments of long-term borrowings		(50,171)		(47,743
Treasury stock repurchased		(9,639)		(5,839
Dividends paid		(4,716)		(4,386
All other financing activities, net		(1,356)		115
Net cash provided by financing activities		13,766		47,911
Effect of exchange rate changes on cash and due from banks and deposits with banks		(1,492)		5,408
Net increase/(decrease) in cash and due from banks and deposits with banks	-	(26,124)		59,372
Cash and due from banks and deposits with banks at the beginning of the period		431,304		391,154
Cash and due from banks and deposits with banks at the end of the period	\$		<u> </u>	450,526
Cash interest paid	\$		<u> </u>	6,322
Cash interest paid.	Ψ	3,906	r	1,736

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (unaudited)

Note 1 - Basis of presentation

JPMorgan Chase & Co. ("JPMorgan Chase" or "the Firm"), a financial holding company incorporated under Delaware law in 1968, is a leading global financial services firm and one of the largest banking institutions in the U.S., with operations worldwide. The Firm is a leader in investment banking, financial services for consumers and small businesses, commercial banking, financial transaction processing and asset management. For a further discussion of the Firm's business segments, refer to Note 23.

The accounting and financial reporting policies of JPMorgan Chase and its subsidiaries conform to U.S. GAAP. Additionally, where applicable, the policies conform to the accounting and reporting guidelines prescribed by regulatory authorities.

The unaudited Consolidated Financial Statements prepared in conformity with U.S. GAAP require management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue and expense, and the disclosures of contingent assets and liabilities. Actual results could be different from these estimates. In the opinion of management, all normal, recurring adjustments have been included such that this interim financial information is fairly presented.

These unaudited Consolidated Financial Statements should be read in conjunction with the audited Consolidated Financial Statements, and related notes thereto, included in JPMorgan Chase's 2017 Annual Report.

Certain amounts reported in prior periods have been reclassified to conform with the current presentation.

Consolidation

The Consolidated Financial Statements include the accounts of JPMorgan Chase and other entities in which the Firm has a controlling financial interest. All material intercompany balances and transactions have been eliminated.

Assets held for clients in an agency or fiduciary capacity by the Firm are not assets of JPMorgan Chase and are not included on the Consolidated balance sheets.

The Firm determines whether it has a controlling financial interest in an entity by first evaluating whether the entity is a voting interest entity or a variable interest entity.

For a further description of JPMorgan Chase's accounting policies regarding consolidation, refer to Notes 1 and 14 of JPMorgan Chase's 2017 Annual Report.

Offsetting assets and liabilities

U.S. GAAP permits entities to present derivative receivables and derivative payables with the same counterparty and the related cash collateral receivables and payables on a net basis on the Consolidated balance sheets when a legally enforceable master netting agreement exists. U.S. GAAP also permits securities financing activities to be presented on a net basis when specified conditions are met, including the existence of a legally enforceable master netting agreement. The Firm has elected to net such balances when the specified conditions are met. For further information on offsetting assets and liabilities, refer to Note 1 of JPMorgan Chase's 2017 Annual Report.

Application of U.S. GAAP related to the Tax Cuts and Jobs Act ("TCJA") SEC Staff Accounting Bulletin No. 118

On December 22, 2017, the TCJA was signed into law and the Firm recorded the estimated impact of the deemed repatriation of the Firm's unremitted non-U.S. earnings and the remeasurement of deferred taxes under the TCJA. These provisional amounts represent estimates under SEC guidance, which provides a one-year measurement period in which to refine the estimates based on new information or the issuance of interpretative guidance. Based on legislative clarifications published during the second guarter of 2018. which were specific to the deemed repatriation tax on non-U.S. earnings, the Firm recorded a tax benefit of \$189 million. The Firm has made and continues to anticipate refinements to both calculations as a result of the issuance of additional legislative and accounting guidance as well as those in the normal course of business, including true-ups to the tax liability on the tax return as filed and the resolution of tax audits. The Firm considers any legislative or accounting guidance issued as of the balance sheet date when evaluating potential refinements to these estimates.

Accounting standards adopted January 1, 2018

The following table identifies the standards adopted, and the note where further information on the impact of the new guidance can be found:

Revenue recognition - revenue from contracts with customers	Note 5
Recognition and measurement of financial assets and financial liabilities	Notes 2 and 9
Treatment of restricted cash on the statement of cash flows	Note 18
Presentation of net periodic pension cost and net periodic postretirement benefit cost	Note 7
Premium amortization on purchased callable debt securities	Notes 9 and 17
Hedge accounting	Notes 4, 9 and 17
Reclassification of certain tax effects from AOCI	Note 17

Certain of the new accounting standards were applied retrospectively and prior period amounts were revised accordingly. The most significant of the new standards was revenue recognition, which requires gross presentation of certain costs that were previously offset against revenue. This change resulted in noninterest revenue and noninterest expense each increasing by \$261 million and \$525 million for the three and six months ended June 30, 2017, respectively, with no impact to net income.

Upon adoption of the restricted cash guidance, to align the Consolidated balance sheets with the Consolidated statements of cash flows, the Firm reclassified restricted cash into cash and due from banks or deposits with banks. In addition, for the Firm's Consolidated statements of cash flows, cash is defined as those amounts included in cash and due from banks and deposits with banks. This guidance was applied retrospectively and, accordingly, prior period amounts have been revised, resulting in cash and due from banks and deposits with banks increasing by \$71 million and \$1.1 billion, respectively, and other assets decreasing by \$1.2 billion at December 31, 2017.

Note 2 - Fair value measurement

For a discussion of the Firm's valuation methodologies for assets, liabilities and lending-related commitments measured at fair value and the fair value hierarchy, refer to Note 2 of JPMorgan Chase's 2017 Annual Report.

The following table presents the assets and liabilities reported at fair value as of June 30, 2018, and December 31, 2017, by major product category and fair value hierarchy.

Assets and liabilities measured at fair value on a recurring basis

		F	air value hierarch	1			
						Derivative netting	
June 30, 2018 (in millions)		Level 1	Level 2	Level 3		adjustments	Total fair value
Federal funds sold and securities purchased under resale agreements	\$	- \$	12,793	\$	-	\$ -	
Securities borrowed		_	4,052		-	-	4,05
Trading assets:							
Debt instruments:							
Mortgage-backed securities:			37.005		170		20.20
U.S. government agencies ^(a) Residential – nonagency		_	37,805 2,001	•	178 87	_	38,283 2,088
Commercial - nonagency		_	1,299		18	_	1,31
Total mortgage-backed securities			41,105		583	_	41,68
U.S. Treasury and government agencies ^(a)		38,363	9,192	•	_	_	47,55
Obligations of U.S. states and municipalities		_	8,465		736	_	9,20
Certificates of deposit, bankers' acceptances and commercial paper		_	2,095		_	_	2,09
Non-U.S. government debt securities		34,787	31,647	:	183	_	66,61
Corporate debt securities		, <u> </u>	24,571		274	_	24,84
Loans ^(b)		_	43,891	1,9	986	_	45,87
Asset-backed securities		_	3,002		87	_	3,08
Total debt instruments		73,150	163,968	3,8	349		240,96
Equity securities		98,142	485	;	288	_	98,91
Physical commodities ^(c)		5,136	1,542		_	_	6,67
Other		-	13,273		106	_	13,67
Total debt and equity instruments(d)		176,428	179,268	4,	543	-	360,23
Derivative receivables:							
Interest rate		528	278,652	1,8	331	(258,040)	22,97
Credit		_	19,917	1,0	017	(20,310)	62
Foreign exchange		1,497	194,169	:	306	(179,709)	16,76
Equity		_	41,798	3,:	167	(34,789)	10,17
Commodity			21,702		166	(13,892)	7,97
Total derivative receivables ^(e)		2,025	556,238	6,9	987	(506,740)	58,51
Total trading assets ^(f)		178,453	735,506	11,	530	(506,740)	418,74
Available-for-sale securities:							
Mortgage-backed securities:							
U.S. government agencies ^(a)		-	61,922		-	-	61,92
Residential - nonagency		-	9,679		1	-	9,68
Commercial - nonagency			7,827				7,82
Total mortgage-backed securities		_	79,428		1	-	79,42
U.S. Treasury and government agencies		25,344	_		-	-	25,34
Obligations of U.S. states and municipalities		-	39,330		-	-	39,33
Certificates of deposit		-	75		-	-	7
Non-U.S. government debt securities		17,359	8,327		-	-	25,68
Corporate debt securities		_	2,133		-	-	2,13
Asset-backed securities:							
Collateralized loan obligations		_	20,999	:	L47	-	21,14
Other			8,866				8,86
Total available-for-sale securities		42,703	159,158		148	 _	202,00
Loans		-	2,917		159	-	3,07
Mortgage servicing rights Other assets ^{(f)(g)}		-	-		241		6,24
Total assets measured at fair value on a recurring basis	\$	11,873 233,029 \$	914,483		225	\$ (506,740)	13,15 \$ 660,07
Deposits	∌ \$	- \$	15,391		305	\$ (506,740)	
Federal funds purchased and securities loaned or sold under repurchase agreements	₽	- p		p 4,.	503	<i>y</i> –	
		_	866		_	-	86
Short-term borrowings		_	6,521	2,	209	-	8,73
Trading liabilities:							
Debt and equity instruments ^(d)		82,507	24,777		43	-	107,32
Derivative payables:			252.000			(245.2(0)	0.44
Interest rate		561	252,080		342	(245,368)	8,61
Credit		1 530	19,737		041	(19,276)	1,50
Foreign exchange		1,539	184,977)51 745	(175,046)	12,52
Equity		-	42,639		745	(36,902)	11,48
Commodity Total derivative payables (P)		2 100	22,232		918	(14,759)	8,39
Total derivative payables (e)		2,100	521,665	10,0		(491,351)	42,51
Total trading liabilities Associate payable and other liabilities		84,607	546,442	10,:		(491,351)	149,83
Accounts payable and other liabilities		6,568	57		8		6,63
Beneficial interests issued by consolidated VIEs Long-term debt		-	21 924	10	1	_	50,09
Long-term debt Total liabilities measured at fair value on a recurring basis	\$	91,175 \$	31,834 601,111	\$ 34,		\$ (491,351)	
iotal navincies ilicasureu at fair value vii a retull'ilig Dasis	₽	71,1/3 Þ	001,111	\$ 34,	,23	φ (491,351)	\$ 235,86

<u> </u>	F	Derivative			
December 31, 2017 (in millions)	Level 1	Level 2	Level 3	netting adjustments	Total fair
	\$ - \$	14,732	\$ -	\$ -	\$ 14
Securities borrowed	φ	3,049	,	<i>p</i> –	φ 1- 3
Frading assets:		-,			
Debt instruments:					
Mortgage-backed securities:					
U.S. government agencies ^(a)	_	41,515	307	_	41
Residential - nonagency	_	1,835	60	_	1
Commercial - nonagency	-	1,645	11	_	1
Total mortgage-backed securities	-	44,995	378	-	45
U.S. Treasury and government agencies(a)	30,758	6,475	1	-	37
Obligations of U.S. states and municipalities	-	9,067	744	-	ç
Certificates of deposit, bankers' acceptances and commercial paper	-	226	-	-	
Non-U.S. government debt securities	28,887	28,831	78	-	57
Corporate debt securities	-	24,146	312	-	24
Loans ^(b)	-	35,242	2,719	-	37
Asset-backed securities		3,284	153	_	
Total debt instruments	59,645	152,266	4,385	-	216
Equity securities	87,346	197	295	-	87
Physical commodities ^(c)	4,924	1,322	-	-	6
Other		14,197	690		14
Total debt and equity instruments ^(d)	151,915	167,982	5,370	-	325
Derivative receivables:				4	
Interest rate	181	314,107	1,704	(291,319)	24
Credit	_	21,995	1,209	(22,335)	
Foreign exchange	841	158,834	557	(144,081)	16
Equity	-	37,722	2,318	(32,158)	7
Commodity	_	19,875	210	(13,137)	
Total derivative receivables(e)	1,022	552,533	5,998	(503,030)	56
Total trading assets ^(f)	152,937	720,515	11,368	(503,030)	381
Available-for-sale securities:					
Mortgage-backed securities:					
U.S. government agencies ^(a)	-	70,280	_	-	70
Residential - nonagency	_	11,366	1	-	11
Commercial - nonagency		5,025	-		
Total mortgage-backed securities	_	86,671	1	-	86
U.S. Treasury and government agencies	22,745		-	-	22
Obligations of U.S. states and municipalities	_	32,338	_	-	32
Certificates of deposit	-	59	-	_	-
Non-U.S. government debt securities	18,140	9,154	-	_	27
Corporate debt securities	_	2,757	-	_	Ź
Asset-backed securities:					-
Collateralized loan obligations	_	20,720	276	_	20
Other	-	8,817	-	_	3
Equity securities(g)	547				
Total available-for-sale securities	41,432	160,516	277		202
_oans	-	2,232	276	-	2
Mortgage servicing rights	-	_	6,030	-	(
Other assets ^{(f)(g)}	13,795	343	1,265	- (====================================	15
ŭ	\$ 208,164 \$	901,387	\$ 19,216	\$ (503,030)	\$ 625
·	\$ - \$	17,179	\$ 4,142	\$ -	\$ 21
Federal funds purchased and securities loaned or sold under repurchase agreements	-	697	-	_	
short-term borrowings	_	7,526	1,665	_	ç
rading liabilities:					
Debt and equity instruments ^(d)	64,664	21,183	39	-	85
Derivative payables:					
Interest rate	170	282,825	1,440	(277,306)	7
Credit	-	22,009	1,244	(21,954)	1
Foreign exchange	794	154,075	953	(143,349)	12
Equity	-	39,668	5,727	(36,203)	Ġ
Commodity		21,017	884	(14,217)	
Total derivative payables ^(e)	964	519,594	10,248	(493,029)	37
Total trading liabilities	65,628	540,777	10,287	(493,029)	123
Accounts payable and other liabilities	9,074	121	13	-	ģ
Beneficial interests issued by consolidated VIEs	-	6	39	-	
ong-term debt	_	31,394	16,125	_	47
Total liabilities measured at fair value on a recurring basis	\$ 74,702 \$	597,700	\$ 32,271	\$ (493,029)	\$ 211

⁽a) At June 30, 2018, and December 31, 2017, included total U.S. government-sponsored enterprise obligations of \$65.6 billion and \$78.0 billion, respectively, which were predominantly mortgage-related.

mortgage-related.
(b) At June 30, 2018, and December 31, 2017, included within trading loans were \$14.8 billion and \$11.4 billion, respectively, of residential first-lien mortgages, and \$5.6 billion and \$4.2 billion, respectively, of commercial first-lien mortgages. Residential mortgage loans include conforming mortgage loans originated with the intent to sell to U.S. government agencies of \$9.7 billion and \$5.7 billion, respectively, and reverse mortgages of zero and \$836 million respectively.
(c) Physical commodities inventories are generally accounted for at the lower of cost or net realizable value. "Net realizable value" is a term defined in U.S. GAAP as not exceeding fair value less

⁽c) Physical commodities inventories are generally accounted for at the lower of cost or net realizable value. "Net realizable value" is a term defined in U.S. GAAP as not exceeding fair value les costs to sell ("transaction costs"). Transaction costs for the Firm's physical commodities inventories are either not applicable or immaterial to the value of the inventory. Therefore, net realizable value approximates fair value for the Firm's physical commodities inventories. When fair value hedging has been applied (or when net realizable value is below cost), the carrying

- value of physical commodities approximates fair value, because under fair value hedge accounting, the cost basis is adjusted for changes in fair value. For a further discussion of the Firm's hedge accounting relationships, refer to Note 4. To provide consistent fair value disclosure information, all physical commodities inventories have been included in each period presented. Balances reflect the reduction of securities owned (long positions) by the amount of identical securities sold but not yet purchased (short positions).
- (e) As permitted under U.S. GAAP, the Firm has elected to net derivative receivables and derivative payables and the related cash collateral received and paid when a legally enforceable master netting agreement exists. For purposes of the tables above, the Firm does not reduce derivative receivables and derivative payables balances for this netting adjustment, either within or across the levels of the fair value hierarchy, as such netting is not relevant to a presentation based on the transparency of inputs to the valuation of an asset or liability. The level 3 balances would be reduced if netting were applied, including the netting benefit associated with cash collateral.
- (f) Certain investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient are not required to be classified in the fair value hierarchy. At June 30, 2018, and December 31, 2017, the fair values of these investments, which include certain hedge funds, private equity funds, real estate and other funds, were \$764 million and \$779 million, respectively. Included in these balances at June 30, 2018, and December 31, 2017, were trading assets of \$50 million and \$54 million, respectively, and other assets of \$714 million and \$725 million, respectively.
- (g) Effective January 1, 2018, the Firm adopted the recognition and measurement guidance. Equity securities that were previously reported as AFS securities were reclassified to other assets upon adoption.

Transfers between levels for instruments carried at fair value on a recurring basis

For the three and six months ended June 30, 2018 and 2017 there were no individually significant transfers.

All transfers are based on changes in the observability of the valuation inputs and are assumed to occur at the beginning of the quarterly reporting period in which they occur.

Level 3 valuations

For further information on the Firm's valuation process and a detailed discussion of the determination of fair value for individual financial instruments, refer to Note 2 of JPMorgan Chase's 2017 Annual Report.

The following table presents the Firm's primary level 3 financial instruments, the valuation techniques used to measure the fair value of those financial instruments, the significant unobservable inputs, the range of values for those inputs and, for certain instruments, the weighted averages of such inputs. While the determination to classify an instrument within level 3 is based on the significance of the unobservable inputs to the overall fair value measurement, level 3 financial instruments typically include observable components (that is, components that are actively quoted and can be validated to external sources) in addition to the unobservable components. The level 1 and/ or level 2 inputs are not included in the table. In addition, the Firm manages the risk of the observable components of level 3 financial instruments using securities and derivative positions that are classified within levels 1 or 2 of the fair value hierarchy.

The range of values presented in the table is representative of the highest and lowest level input used to value the significant groups of instruments within a product/instrument classification. Where provided, the weighted averages of the input values presented in the table are calculated based on the fair value of the instruments that the input is being used to value.

In the Firm's view, the input range and the weighted average value do not reflect the degree of input uncertainty or an assessment of the reasonableness of the Firm's estimates and assumptions. Rather, they reflect the characteristics of the various instruments held by the Firm and the relative distribution of instruments within the range of characteristics. For example, two option contracts may have similar levels of market risk exposure and valuation uncertainty, but may have significantly different implied volatility levels because the option contracts have different underlyings, tenors, or strike prices. The input range and weighted average values will therefore vary from period-toperiod and parameter-to-parameter based on the characteristics of the instruments held by the Firm at each balance sheet date.

For the Firm's derivatives and structured notes positions classified within level 3 at June 30, 2018, interest rate correlation inputs used in estimating fair value were concentrated towards the upper end of the range; equity correlation, equity-FX, and equity-IR correlation inputs were concentrated in the middle of the range; commodity correlation inputs were concentrated in the middle of the range; credit correlation inputs were concentrated towards the lower end of the range; and the interest rate-foreign exchange ("IR-FX") correlation inputs were distributed across the range. In addition, the interest rate spread volatility inputs used in estimating fair value were distributed across the range; equity volatilities and commodity volatilities were concentrated towards the lower end of the range; and forward commodity prices used in estimating the fair value of commodity derivatives were concentrated towards the lower end of the range. Prepayment speed inputs used in estimating fair value of interest rate derivatives were concentrated towards the lower end of the range. Recovery rate, yield and prepayment speed inputs used in estimating fair value of credit derivatives were distributed across the range; credit spreads and conditional default rates were concentrated towards the lower end of the range; loss severity and price inputs were concentrated towards the upper end of the range.

Level 3 inputs(a)

Product/Instrument	Fair value (in millions)	Principal valuation technique	Unobservable inputs ^(g)	Range	Range of input values			ghted averag
Residential mortgage-backed securities	\$ 798	Discounted cash flows	Yield	0%	-	23%		6%
and loans ^(b)			Prepayment speed	0%	-	50%		8%
			Conditional default rate	0%	-	20%		1%
			Loss severity	0%	-	100%		6%
Commercial mortgage-backed securities and loans ^(c)	445	Market comparables	Price	\$ 6	-	\$ 101	\$	91
Obligations of U.S. states and municipalities	736	Market comparables	Price	\$ 59		\$ 100	\$	97
Corporate debt securities	274	Market comparables	Price	\$ 2	-	\$ 107	\$	82
Loans ^(d)	1,486	Market comparables	Price	\$ 4	-	\$ 104	\$	87
Asset-backed securities	147	Discounted cash flows	Credit spread		216 b	ps		216 bps
			Prepayment speed		20%)		20%
			Conditional default rate		2%)		2%
			Loss severity		30%)		30%
	87	Market comparables	Price	\$ 4	-	\$ 100	\$	59
Net interest rate derivatives	293	Option pricing	Interest rate spread volatility	16 bp	s -	38 bps		
			Interest rate correlation	(50)%	-	97%		
			IR-FX correlation	55%	_	60%		
	196	Discounted cash flows	Prepayment speed	0%	_	30%		
Net credit derivatives	(27)	Discounted cash flows	Credit correlation	35%		65%		
ter ereait derivatives	(27)	Discounted cash nows	Credit spread	8 bp		1,497 bps		
			Recovery rate	20%	_	70%		
			Yield	1%	_	36%		
			Prepayment speed	0%	_	18%		
			Conditional default rate	0%	_	93%		
			Loss severity	0%	_	100%		
	3	Market comparables	Price	\$ 10	_			
Net foreign exchange derivatives	(62)	Option pricing	IR-FX correlation	(50)%		60%		
Net foreign exchange derivatives	(183)	Discounted cash flows	Prepayment speed	8%	_	9%		
Net equity derivatives	(2,578)	Option pricing	Equity volatility	10%		60%		
net equity derivatives	(2,376)	Option pricing	Equity correlation	10%	_	95%		
			Equity-FX correlation	(70)%		60%		
			Equity-IR correlation	20%		40%		
Net commodity derivatives	(752)	Option pricing	Forward commodity price	\$ 52	-	•	rel	
			Commodity volatility	5%	-	53%		
			Commodity correlation	(52)%		95%		
MSRs	6,241	Discounted cash flows	Refer to Note 14					
Other assets	289	Discounted cash flows	Credit spread		70 b	ps		70 bps
			Yield	8%	-	10%		8%
	1,342	Market comparables	Price	\$ 35	-	\$ 104	\$	46
			EBITDA multiple	3.0x	-	8.4x		8.0x
Long-term debt, short-term borrowings, and deposits ^(e)	24,776	Option pricing	Interest rate spread volatility	16 bp	s -	38 bps		
and deposits			Interest rate correlation	(50)%	-	97%		
			IR-FX correlation	(50)%	-	60%		
			Equity correlation	10%	-	95%		
			Equity-FX correlation	(70)%	-	60%		
			Equity-IR correlation	20%	_	40%		

⁽a) The categories presented in the table have been aggregated based upon the product type, which may differ from their classification on the Consolidated balance sheets. Furthermore, the inputs presented for each valuation technique in the table are, in some cases, not applicable to every instrument valued using the technique as the characteristics of the instruments can differ.

⁽b) Includes U.S. government agency securities of \$471 million, nonagency securities of \$88 million and trading loans of \$239 million.

⁽c) Includes U.S. government agency securities of \$7 million, nonagency securities of \$18 million, trading loans of \$261 million and non-trading loans of \$159 million.

⁽d) Comprises trading loans.

⁽e) Long-term debt, short-term borrowings and deposits include structured notes issued by the Firm that are predominantly financial instruments containing embedded derivatives. The estimation of the fair value of structured notes includes the derivative features embedded within the instrument. The significant unobservable inputs are broadly consistent with those presented for derivative receivables.

⁽f) Includes level 3 assets and liabilities that are insignificant both individually and in aggregate.

⁽g) Price is a significant unobservable input for certain instruments. When quoted market prices are not readily available, reliance is generally placed on price-based internal valuation techniques. The price input is expressed assuming a par value of \$100.

Changes in and ranges of unobservable inputs

For a discussion of the impact on fair value of changes in unobservable inputs and the relationships between unobservable inputs as well as a description of attributes of the underlying instruments and external market factors that affect the range of inputs used in the valuation of the Firm's positions refer to Note 2 of JPMorgan Chase's 2017 Annual Report.

Changes in level 3 recurring fair value measurements

The following tables include a rollforward of the Consolidated balance sheets amounts (including changes in fair value) for financial instruments classified by the Firm within level 3 of the fair value hierarchy for the three and six months ended June 30, 2018 and 2017. When a determination is made to classify a financial instrument within level 3, the determination is based on the significance of the unobservable parameters to the overall

fair value measurement. However, level 3 financial instruments typically include, in addition to the unobservable or level 3 components, observable components (that is, components that are actively quoted and can be validated to external sources); accordingly, the gains and losses in the table below include changes in fair value due in part to observable factors that are part of the valuation methodology. Also, the Firm risk-manages the observable components of level 3 financial instruments using securities and derivative positions that are classified within level 1 or 2 of the fair value hierarchy; as these level 1 and level 2 risk management instruments are not included below, the gains or losses in the following tables do not reflect the effect of the Firm's risk management activities related to such level 3 instruments.

		F	air value meas	urements	using signif	icant unobserval	ole inputs				
Three months ended June 30, 2018	Fair value at	Total realized/ unrealized gains/			uanig algilli		Transfers into	Transfers (out of)	Fair value at	unrealize (losses) to fina instrumen	related ancial nts held a
(in millions)	April 1, 2018	(losses)	Purchases ^(f)	Sales		Settlements ^(g)	level 3 ^(h)	level 3 ^(h)	June 30, 2018	June 30), 2018
Assets:											
Trading assets:											
Debt instruments:											
Mortgage-backed securities:											
U.S. government agencies	\$ 508	\$ -	\$ 5	\$ (11)		\$ (19)	\$ 5	\$ (10)	\$ 478	\$	-
Residential - nonagency	55	2	45	(11)		(1)	11	(14)	87		1
Commercial - nonagency	14	2	1	(1)		(12)	17	(3)	18		1
Total mortgage-backed						-					
securities	577	4	51	(23)		(32)	33	(27)	583		2
U.S. Treasury and government agencies	_	_	-	-		-	-	-	-		-
Obligations of U.S. states and municipalities	704	(9)	42	_		(1)	_	_	736		(9)
Non-U.S. government debt	107	(12)	127	(02)			_	(2()	102		(12)
securities	197	(12)	126	(92)		- (40)		(36)	183		(12)
Corporate debt securities	306	(3)	60	(40)		(10)		(75)			4
Loans	2,368	(21)	565	(806)		(192)			1,986		(30)
Asset-backed securities	63	4 (27)	45	(9)		(6)	2		87		4
Total debt instruments	4,215	(37)	889	(970)		(241)					(41)
Equity securities	300	(13)	65	(50)		(1)	_	(13)	288		(8)
Other	698	(254)	16	(34)		(18)	_	(2)	406	((259)
Total trading assets - debt and equity instruments	5,213	(304) (c)	970	(1,054)		(260)	322	(344)	4,543	((308) (c)
Net derivative receivables:(a)		,								-	
Interest rate	472	287	38	(51)		(179)	(54)	(24)	489		254
Credit	5	21	1	(5)		(29)	(4)	(13)	(24)		9
Foreign exchange	(288)	94	13	(3)		(8)	(74)) 21	(245)		95
Equity	(2,512)	143	606	(1,042)		(13)	38	202	(2,578)		(24)
Commodity	(519)	(35)	_	_		(186)	(9)	(3)	(752)		(65)
Total net derivative receivables	(2,842)	510 (c)	658	(1,101)		(415)	(103)) 183	(3,110)		269 (c)
Available-for-sale securities:											
Asset-backed securities	204	_	_	_		(57)	_	_	147		_
Other	1	-	_	_		_	_	_	1		-
Total available-for-sale securities	205	_ (d)	_	_		(57)	_	_	148		_ (d)
Loans	396	(9) (c)	_	_		(154)	_	(74)	159		(9) (c)
Mortgage servicing rights	6,202	94 ^(e)	236	(104)		(187)		_	6,241		94 ^(e)
Other assets	1,220	(13) ^(c)	24	(2)		(5)		_	1,225		(17) ^(c)
			air value meas	urements	using signit	icant unobserval	ole inputs			_	
Three months ended June 30, 2018 (in millions)	Fair value at April 1, 2018	Total realized/ unrealized (gains)/ losses	Purchases	Sales	Issuances	Settlements ^(g)	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at June 30, 2018	Chan unrealized losses r to fina instrumen June 30	d (gains) related ancial nts held a
Liabilities:(b)											
Deposits	\$ 4,017	\$ 49 (c)(i)	\$ -	\$ -	\$ 434	\$ (57)	\$ 1	\$ (139)	\$ 4,305	\$	50 (c)(i
Short-term borrowings	2,125	(197) (c)(i)	_	_	862	•		(10)		•	(27) (c)(i
Trading liabilities - debt and		(11) (c)	(25)	33	332	(014)		(4)			(4) (c)
equity instruments Accounts payable and other	50	(11) (c)	(25)	33	_	_	_	(4)	43		(4) ^(c)
liabilities Beneficial interests issued by	7	(1)	-	1	-	-	1	-	8		(1)
consolidated VIEs	1	-	-	-	-	-	-	-	1		-
	4 4 0 5 0	(2.44)				(2.5)		(00-1	40.045		

3,740

(2,083)

219

(220)

18,262

(427) (c)(i)

Long-term debt

16,950

(344) (c)(i)

			Fair value m	easurement	s using signifi	cant unobservabl	e inputs			
Three months ended June 30, 2017 (in millions)	Fair value at April 1, 2017	Total realized/ unrealized gains/(losses)	Purchases ^(f)	Sales	0 - 10	Settlements ^(g)	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at June 30, 2017	Change in unrealized gains/ (losses) related to financial instruments held at June 30, 2017
Assets:										
Trading assets:										
Debt instruments:										
Mortgage-backed securities:										
U.S. government agencies	\$ 353	\$ (11)	\$ 82	\$ (54)		\$ (19)	\$ 20	\$ (6)	\$ 365	\$ (14)
Residential - nonagency	35	(1)	31	(3)		(5)	46	(5)	98	(4)
Commercial - nonagency	45	(1)	10	(6)		(2)	30	(11)	65	(1)
Total mortgage-backed securities	433	(13)	123	(63)		(26)	96	(22)	528	(19)
Obligations of U.S. states and municipalities	668	4	9	-		_		-	681	3
Non-U.S. government debt securities	47	3	102	(95)		_	1	(21)	37	2
Corporate debt securities	738	2	74	(38)		(254)	27	(88)	461	1
Loans	4,588	68	729	(323)		(390)	122	(306)	4,488	83
Asset-backed securities	245	8	11	(30)		(25)	6	(132)	83	6
Total debt instruments	6,719	72	1,048	(549)	,	(695)	252	(569)	6,278	76
Equity securities	271	21	57	(41)		_	1	(25)	284	10
Other	763	43	3	(7)		(65)	2	(8)	731	31
Total trading assets - debt and equity instruments	7,753	136 (c)	1,108	(597)		(760)	255	(602)	7,293	117 (c)
Net derivative receivables:(a)					'					
Interest rate	1,009	37	21	(30)		(348)	30	(7)	712	(90)
Credit	17	(48)	1	(1)		(20)	6	-	(45)	(37)
Foreign exchange	(1,490)	95	3	(2)		656	12	40	(686)	101
Equity	(1,896)	(35)	149	(83)		(504)	(108)	33	(2,444)	(38)
Commodity	(56)	(22)	_			23	(2)	(1)	(58)	(32)
Total net derivative receivables	(2,416)	27 ^(c)	174	(116)		(193)	(62)	65	(2,521)	(96) (c)
Available-for-sale securities:										
Asset-backed securities	622	2	_	_		(77)	_	_	547	2
Other	1	_	_			_	_		1	
Total available-for-sale securities	623	2 ^(d)	_			(77)	_	_	548	2 ^(d)
Loans	404	18 ^(c)	-	_		(117)	_	-	305	13 ^(c)
Mortgage servicing rights	6,079	(200) (e)	154	(67)		(213)	_	_	5,753	(200) (e)
Other assets	2,077	193 (c)	28	(78)		(286)			1,934	120 (c)
			Fair value m	easurement	s using signifi	cant unobservabl	e inputs			_
Three months ended June 30, 2017 (in millions)	Fair value at April 1, 2017	Total realized/ unrealized (gains)/losses	Purchases	Sales	Issuances	Settlements ^(g)	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at June 30, 2017	Change in unrealized (gains)/ losses related to financial instruments held at June 30, 2017
Liabilities:(b)										
Deposits	\$ 2,133	\$ 30 (c)	\$ -	\$ -	\$ 292	\$ (31)	\$ -	\$ (293)	\$ 2,131	\$ 27 ^(c)
Short-term borrowings	1,261	46 ^(c)	-	-	683	(657)	23	(42)	1,314	53 ^(c)
Trading liabilities - debt and equity instruments	45	(1)	(7)	2	-	_	1	(4)	36	-
Accounts payable and other liabilities	11	-	(1)	-	_	-	-	-	10	
Beneficial interests issued by consolidated VIEs	51	_	(44)	_	_	(6)	_	_	1	_
consonated vies		70	()		2011	(2.27.4)		(4.50)	4.4.722	4.5

2,941 (i)

(2,274)

53

(152)

14,732 ()

15 (c)(j)

Long-term debt

14,094

70 (c)(j)

Six months ended June 30, 2018 (in millions)	Fair value at January 1, 2018	Total realized/ unrealized gains/(losses)	Purchases ^(f)	Sales	Settlements ^(g)	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at June 30, 2018	Change in unrealized gains/ (losses) related to financial instruments held at June 30, 2018
Assets:	'								
Trading assets:									
Debt instruments:									
Mortgage-backed securities:									
U.S. government agencies	\$ 307	\$ 3	\$ 334	\$ (98)	\$ (39)	\$ 9	\$ (38)	\$ 478	\$ 1
Residential - nonagency	60	-	45	(13)	(3)	40	(42)	87	1
Commercial - nonagency	11	3	7	(8)	(13)	21	(3)	18	(2)
Total mortgage-backed securities	378	6	386	(119)	(55)	70	(83)	583	_
U.S. Treasury and government agencies	1	_	_	_	_	_	(1)	_	-
Obligations of U.S. states and municipalities	744	(11)	81	_	(78)	_	_	736	(11)
Non-U.S. government debt securities	78	(10)	351	(184)	-	17	(69)	183	(9)
Corporate debt securities	312	(4)	141	(140)	(11)	167	(191)	274	3
Loans	2,719	41	1,035	(1,534)	(329)	374	(320)	1,986	(24)
Asset-backed securities	153	9	59	(22)	(40)	13	(85)	87	5
Total debt instruments	4,385	31	2,053	(1,999)	(513)	641	(749)	3,849	(36)
Equity securities	295	(21)	93	(60)	(1)	4	(22)	288	(8)
Other	690	(239)	34	(40)	(38)	1	(2)	406	(251)
Total trading assets - debt and equity instruments	5,370	(229) (c)	2,180	(2,099)	(552)	646	(773)	4,543	(295) (c)
Net derivative receivables:(a)									
Interest rate	264	340	55	(55)	(133)	(28)	46	489	314
Credit	(35)	38	2	(7)	(25)	(1)	4	(24)	11
Foreign exchange	(396)	240	13	(8)	3	(112)	15	(245)	190
Equity	(3,409) (674)	782 150	824	(1,284)	421	(73)	161	(2,578)	514 154
Commodity Total net derivative receivables	(4,250)	1,550 ©	894	(1,354)	(174)	(8)	180	(752)	1,183 (c)
Available-for-sale securities:									
Asset-backed securities	276	1	_	_	(130)	_	_	147	1
Other	1	_	_				_	1	_
otal available-for-sale securities	277	1 (d)	_	_	(130)	_	_	148	1 (d)
oans	276	(4) (c)	122		(161)	_	(74)	159	(5) (c)
Nortgage servicing rights	6,030	478 ^(e)	479	(399)	(347)	_	_	6,241	478 ^(e)
Other assets	1,265	(50) ^(c)	47	(16)	(21)	1	(1)	1,225	(52) ^(c)

			Fair value mea	surement	s using signific	ant unobservabl	e inputs			
Six months ended June 30, 2018 (in millions)	Fair value at January 1, 2018	Total realized/ unrealized (gains)/losses	Purchases	Sales	Issuances	Settlements ^(g)	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at June 30, 2018	Change in unrealized (gains)/ losses related to financial instruments held at June 30, 2018
Liabilities:(b)										
Deposits	\$ 4,142	\$ (41) (c)(i)	\$ -	\$ -	\$ 755	\$ (255)	\$ 1	\$ (297)	\$ 4,305	\$ (86) (c)(i)
Short-term borrowings	1,665	(182) (c)(i)	_	_	2,070	(1,360)	55	(39)	2,209	(31) (c)(i)
Trading liabilities - debt and equity instruments	39	(8) (c)	(62)	76	_	1	2	(5)	43	(1) (c)
Accounts payable and other liabilities	13	(1)	(6)	1	_	_	1	_	8	(1)
Beneficial interests issued by consolidated VIEs	39	_	_	_	_	(38)	_	_	1	_
Long-term debt	16,125	(590) (c)(i)	_	_	6,831	(4,346)	594	(352)	18,262	(706) (c)(i)

	Fair value measurements using significant unobservable inputs										
Six months ended June 30, 2017 (in millions)	Fair value at January 1, 2017	Total realized/ unrealized gains/(losses)	Purchases ^(f)	Sales	Settlements ^(g)	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at June 30, 2017	Change in unrealized gains/ (losses) related to financial instruments held at June 30, 2017		
Assets:											
Trading assets:											
Debt instruments:											
Mortgage-backed securities:											
U.S. government agencies	\$ 392	\$ (7)	\$ 161	\$ (151)	\$ (35)	\$ 27	\$ (22)	\$ 365	\$ (16)		
Residential - nonagency	83	8	36	(20)	(9)	61	(61)	98	1		
Commercial - nonagency	17	2	17	(14)	(5)	60	(12)	65	(1)		
Total mortgage-backed securities	492	3	214	(185)	(49)	148	(95)	528	(16)		
Obligations of U.S. states and municipalities	649	12	95	(70)	(5)		_	681	11		
Non-U.S. government debt securities	46	3	174	(178)	-	27	(35)	37	3		
Corporate debt securities	576	(7)	497	(146)	(376)	60	(143)	461	1		
Loans	4,837	178	1,491	(1,067)	(765)	318	(504)	4,488	98		
Asset-backed securities	302	22	109	(168)	(36)	14	(160)	83	7		
Total debt instruments	6,902	211	2,580	(1,814)	(1,231)	567	(937)	6,278	104		
Equity securities	231	34	113	(47)	-	2	(49)	284	20		
Other	761	65	22	(7)	(112)	10	(8)	731	49		
Total trading assets - debt and equity instruments	7,894	310 (c)	2,715	(1,868)	(1,343)	579	(994)	7,293	173 (c)		
Net derivative receivables:(a)											
Interest rate	1,263	81	37	(53)	(651)	34	1	712	(151)		
Credit	98	(94)	1	(3)	(62)	17	(2)	(45)	(50)		
Foreign exchange	(1,384)	70	4	(4)	565	23	40	(686)	60		
Equity	(2,252)	34	485	(128)	(528)	(181)		(2,444)	(37)		
Commodity	(85)	(4)			25	4	2	(58)	30		
Total net derivative receivables	(2,360)	87 (c)	527	(188)	(651)	(103)	167	(2,521)	(148) (c)		
Available-for-sale securities:											
Asset-backed securities	663	12	-	(50)	(78)	-	-	547	10		
Other	1		_					1			
Total available-for-sale securities	664	12 ^(d)	_	(50)	(78)	_	_	548	10 (d)		
Loans	570	24 (c)	-	-	(289)	_	-	305	16 (c)		
Mortgage servicing rights	6,096	(157) ^(e)	371	(138)	(419)	-	-	5,753	(157) ^(e)		
Other assets	2,223	230 ^(c)	32	(155)	(396)	_	_	1,934	132 ^(c)		

			Fair value mea	surements	using significar	nt unobservable ir	nputs			
Six months ended June 30, 2017 (in millions)	Fair value at January 1, 2017	Total realized/ unrealized (gains)/losses	Purchases	Sales I	ssuances		ransfers into evel 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at June 30, 2017	Change in unrealized (gains)/ losses related to financial instruments held at June 30, 2017
Liabilities:(b)										
Deposits	\$ 2,117	\$ 6 (c)(i)	\$ -	\$ - \$	601	\$ (111) \$	-	\$ (482)	\$ 2,131	\$ 45 (c)(i)
Short-term borrowings	1,134	47 (c)(i)	_		1,390	(1,242)	40	(55)	1,314	49 (c)(i)
Trading liabilities - debt and equity instruments	43	(1) (c)	(8)	4	_	1	3	(6)	36	_
Accounts payable and other liabilities	13	_	(1)	_	_	(2)	_	_	10	_
Beneficial interests issued by consolidated VIEs	48	3	(44)	_	_	(6)	_	_	1	_
Long-term debt	12,850	599 (c)(j)	-	_	6,733 (i)	(5,085)	88	(453)	14,732 ①	398 (c)(i)

⁽a) All level 3 derivatives are presented on a net basis, irrespective of the underlying counterparty.

⁽b) Level 3 liabilities as a percentage of total Firm liabilities accounted for at fair value (including liabilities measured at fair value on a nonrecurring basis) were 15% at both June 30, 2018 and December 31, 2017, respectively.

⁽c) Predominantly reported in principal transactions revenue, except for changes in fair value for CCB mortgage loans and lending-related commitments originated with the intent to sell, and mortgage loan purchase commitments, which are reported in mortgage fees and related income.

⁽d) Realized gains/(losses) on AFS securities, as well as other-than-temporary impairment ("OTTI") losses that are recorded in earnings, are reported in investment securities losses. Unrealized gains/(losses) are reported in OCI. There were no realized gains/(losses) or foreign exchange hedge accounting adjustments recorded in income on AFS

- securities for the three and six months ended June 30, 2018 and 2017, respectively. Unrealized gains/(losses) recorded on AFS securities in OCI were zero and \$2 million for the three months ended June 30, 2018 and 2017, respectively and \$1 million and \$12 million for the six months ended June 30, 2018 and 2017, respectively.
- (e) Changes in fair value for CCB MSRs are reported in mortgage fees and related income.
- (f) Loan originations are included in purchases.
- (g) Includes financial assets and liabilities that have matured, been partially or fully repaid, impacts of modifications, deconsolidation associated with beneficial interests in VIEs and other items.
- (h) All transfers into and/or out of level 3 are based on changes in the observability of the valuation inputs and are assumed to occur at the beginning of the quarterly reporting period in which they occur.
- (i) Realized (gains)/losses due to DVA for fair value option elected liabilities are reported in principal transactions revenue. Unrealized (gains)/losses are reported in OCI. Unrealized gains were \$71 million and \$123 million for the three and six months ended June 30, 2018, respectively. There were no realized gains for the three and six months ended June 30, 2018, respectively.
- (j) The prior period amounts have been revised to conform with the current period presentation.

Level 3 analysis

Consolidated balance sheets changes

Level 3 assets (including assets measured at fair value on a nonrecurring basis) were 0.8% of total Firm assets at June 30, 2018. The following describes significant changes to level 3 assets since December 31, 2017, for those items measured at fair value on a recurring basis. For further information on changes impacting items measured at fair value on a nonrecurring basis, refer to Assets and liabilities measured at fair value on a nonrecurring basis on page 102.

Three months ended June 30, 2018

Level 3 assets were \$19.3 billion at June 30, 2018, reflecting a decrease of \$180 million from March 31, 2018 with no movements that were individually significant.

Six months ended June 30, 2018

Level 3 assets at June 30, 2018 increased by \$87 million from December 31, 2017 with no movements that were individually significant.

Gains and losses

The following describes significant components of total realized/unrealized gains/(losses) for instruments measured at fair value on a recurring basis for the periods indicated. For further information on these instruments, refer to Changes in level 3 recurring fair value measurements rollforward tables on pages 96-101.

Three months ended June 30, 2018

 \$278 million of net gains on assets and \$504 million of net gains on liabilities, none of which were individually significant.

Three months ended June 30, 2017

 \$176 million of net gains on assets and \$145 million of net losses on liabilities, none of which were individually significant.

Six months ended June 30, 2018

- \$1.7 billion of net gains on assets predominantly driven by market movements in derivative receivables, in particular equity derivative receivables.
- \$822 million of net gains on liabilities, none of which were individually significant.

Six months ended June 30, 2017

• \$506 million of of net gains on assets and \$654 million of net losses on liabilities, none of which were individually significant.

Credit and funding adjustments - derivatives

The following table provides the impact of credit and funding adjustments on principal transactions revenue in the respective periods, excluding the effect of any associated hedging activities. The FVA presented below includes the impact of the Firm's own credit quality on the inception value of liabilities as well as the impact of changes in the Firm's own credit quality over time.

	Thr	ee mor June	ended	Six mont June	hs ei 30,		
(in millions)		2018		2017	2018		2017
Credit and funding adjustments:							
Derivatives CVA	\$	73	\$	249	\$ 157	\$	470
Derivatives FVA		97		(60)	14		(67)

For further information about both credit and funding adjustments, as well as information about valuation adjustments on fair value option elected liabilities, refer to Note 2 of JPMorgan Chase's 2017 Annual Report.

Assets and liabilities measured at fair value on a nonrecurring basis

The following tables present the assets still held as of June 30, 2018 and 2017, respectively, for which a nonrecurring fair value adjustment was recorded during the six months ended June 30, 2018 and 2017, respectively, by major product category and fair value hierarchy.

	 Fair					
June 30, 2018 (in millions)	Level 1	Level 2		Level 3	Tota	l fair value
Loans	\$ - \$	325	\$	210 (a)	\$	535
Other assets ^(b)	_	217		823		1,040
Total assets measured at fair value on a nonrecurring basis	\$ - \$	542	\$	1,033	\$	1,575

	Fair	value hierarchy	/			
June 30, 2017 (in millions)	Level 1	Level 2		Level 3	Total f	air value
Loans	\$ - \$	292	\$	430	\$	722
Other assets	_	10		245		255
Total assets measured at fair value on a nonrecurring basis	\$ - \$	302	\$	675	\$	977

- (a) Of the \$210 million in level 3 assets measured at fair value on a nonrecurring basis as of June 30, 2018, \$166 million related to residential real estate loans carried at the net realizable value of the underlying collateral (e.g., collateral-dependent loans and other loans charged off in accordance with regulatory guidance). These amounts are classified as level 3 as they are valued using a broker's price opinion and discounted based upon the Firm's experience with actual liquidation values. These discounts to the broker price opinions ranged from 13% to 40% with a weighted average of 22%.
- (b) Primarily includes equity securities without readily determinable fair values that were adjusted based on observable price changes in orderly transactions from an identical or similar investment of the same issuer (measurement alternative) as a result of the adoption of the recognition and measurement guidance. Of the \$823 million in level 3 assets measured at fair value on a nonrecurring basis as of June 30, 2018, \$641 million related to such equity securities. These equity securities are classified as level 3 due to the infrequency of the observable prices and/or the restrictions on the shares.

There were no material liabilities measured at fair value on a nonrecurring basis at June 30, 2018 and 2017.

Nonrecurring fair value changes

The following table presents the total change in value of assets and liabilities for which a fair value adjustment has been recognized for the three and six months ended June 30, 2018 and 2017, related to financial instruments held at those dates.

	Tŀ	ree month June 3	nded	Six month June			
		2018	2017	2018	2017		
Loans	\$	(18)	\$ (60)	\$ (22)	\$ (109)		
Other assets		37 (a)	(17)	528 (a)	(44)		
Accounts payable and other liabilities		_	(1)	_	(1)		
Total nonrecurring fair value gains/(losses)	\$	19	\$ (78)	\$ 506	\$ (154)		

(a) Included \$67 million and \$562 million for the three months and six months ended June 30, 2018, respectively, of fair value gains as a result of the measurement alternative. For further information about the measurement of impaired collateral-dependent loans, and other loans where the carrying value is based on the fair value of the underlying collateral (e.g., residential mortgage loans charged off in accordance with regulatory guidance), refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

Additional disclosures about the fair value of financial instruments that are not carried on the Consolidated balance sheets at fair value

The following table presents by fair value hierarchy classification the carrying values and estimated fair values at June 30, 2018, and December 31, 2017, of financial assets and liabilities, excluding financial instruments that are carried at fair value on a recurring basis, and their classification within the fair value hierarchy. For additional information regarding the financial instruments within the scope of this disclosure, and the methods and significant assumptions used to estimate their fair value, refer to Note 2 of JPMorgan Chase's 2017 Annual Report.

			J	une 30, 20	18			Dec	ember 31, 2	017	
		E	Estimate	d fair value	hierarchy			Estimate	d fair value l	nierarchy	
(in billions)	Carrying value	Le	evel 1	Level 2	Level 3	Total estimated fair value	Carrying value	Level 1	Level 2	Level 3	Total estimated fair value
Financial assets											
Cash and due from banks	\$ 23.7	\$	23.7	\$ -	\$ –	\$ 23.7	\$ 25.9	\$ 25.9	\$ -	\$ -	\$ 25.9
Deposits with banks	381.5		377.7	3.8	_	381.5	405.4	401.8	3.6	_	405.4
Accrued interest and accounts receivable	74.9		-	74.8	0.1	74.9	67.0	-	67.0	_	67.0
Federal funds sold and securities purchased under resale agreements	213.7		_	213.7	_	213.7	183.7	_	183.7	_	183.7
Securities borrowed	104.2		_	104.2	_	104.2	102.1	_	102.1	_	102.1
Securities, held-to-maturity	31.0		_	30.9	_	30.9	47.7	_	48.7	_	48.7
Loans, net of allowance for loan losses ^(a)	932.1		_	221.9	709.2	931.1	914.6	-	213.2	707.1	920.3
Other ^(b)	56.5		-	55.6	1.0	56.6	53.9	_	52.1	9.2	61.3
Financial liabilities						,					
Deposits	\$ 1,432.4	\$	-	\$ 1,432.4	• \$ —	\$ 1,432.4	\$ 1,422.7	\$ -	\$ 1,422.7	\$ -	\$ 1,422.7
Federal funds purchased and securities loaned or sold under repurchase agreements	174.4		_	174.4	. –	174.4	158.2	_	158.2	_	158.2
Short-term borrowings	55.1		-	54.9	0.2	55.1	42.6	_	42.4	0.2	42.6
Accounts payable and other liabilities	165.2		_	162.6	2.4	165.0	152.0	_	148.9	2.9	151.8
Beneficial interests issued by consolidated VIEs	21.3		_	21.3	_	21.3	26.0	-	26.0	-	26.0
Long-term debt and junior subordinated deferrable interest debentures	223.0		_	219.5	3.2	222.7	236.6	_	240.3	3.2	243.5

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised.

The majority of the Firm's lending-related commitments are not carried at fair value on a recurring basis on the Consolidated balance sheets. The carrying value of the wholesale allowance for lending-related commitments and the estimated fair value of these wholesale lending-related commitments were as follows for the periods indicated.

June 30, 2018								December 31, 2017													
	Estimated fair value hierarchy						Estimated fair value hierarchy						rarchy								
(in billions)	Car va	rying lue ^(a)		Level 1		ı	Level	2	Level 3		Total estimated fair value		Carrying value ^(a)		Level 1		Level 2		Level 3	Tota estima fair va	ated
Wholesale lending- related commitments	\$	1.1	\$		_	\$		_	\$ 1.7	, \$	1.7	\$	1.1	\$, –	\$	-	\$	1.6	\$	1.6

⁽a) Excludes the current carrying values of the guarantee liability and the offsetting asset, each of which is recognized at fair value at the inception of the guarantees.

⁽a) Fair value is typically estimated using a discounted cash flow model that incorporates the characteristics of the underlying loans (including principal, contractual interest rate and contractual fees) and other key inputs, including expected lifetime credit losses, interest rates, prepayment rates, and primary origination or secondary market spreads. For certain loans, the fair value is measured based on the value of the underlying collateral. The difference between the estimated fair value and carrying value of a financial asset or liability is the result of the different methodologies used to determine fair value as compared with carrying value. For example, credit losses are estimated for a financial asset's remaining life in a fair value calculation but are estimated for a loss emergence period in the allowance for loan loss calculation; future loan income (interest and fees) is incorporated in a fair value calculation but is generally not considered in the allowance for loan losses. For a further discussion of the Firm's methodologies for estimating the fair value of loans and lending-related commitments, refer to Valuation hierarchy on pages 156-159 of JPMorgan Chase's 2017 Annual Report.

⁽b) The prior period amounts have been revised to conform with the current period presentation.

The Firm does not estimate the fair value of consumer lending-related commitments. In many cases, the Firm can reduce or cancel these commitments by providing the borrower notice or, in some cases as permitted by law, without notice. For a further discussion of the valuation of lending-related commitments, refer to page 157 of JPMorgan Chase's 2017 Annual Report.

Equity securities without readily determinable fair values

As a result of the adoption of the recognition and measurement guidance and the election of the measurement alternative in the first quarter of 2018, the Firm measures equity securities without readily determinable fair values at cost less impairment (if any), plus or minus observable price changes from an identical or similar investment of the same issuer, with such changes recognized in earnings.

In its determination of the new carrying values upon observable price changes, the Firm may adjust the prices if deemed necessary to arrive at the Firm's estimated fair values. Such adjustments may include adjustments to reflect the different rights and obligations of similar securities, and other adjustments that are consistent with the Firm's valuation techniques for private equity direct investments.

The following table presents the carrying value of equity securities without readily determinable fair values still held as of June 30, 2018, that are measured under the measurement alternative and the related adjustments recorded during the periods presented for those securities with observable price changes. These securities are included in the nonrecurring fair value tables when applicable price changes are observable.

		As of or for the								
(in millions)	T	hree months ended June 30, 2018		Six months ended June 30, 2018						
Other assets	-									
Carrying value	\$	1,471	\$	1,471						
Upward carrying value changes		67		562						
Downward carrying value changes/impairment		(26)	(28)							

Included in other assets above is the Firm's interest in approximately 40 million Visa Class B shares, recorded at a nominal carrying value. These shares are subject to certain transfer restrictions currently and will be converted into Visa Class A shares upon final resolution of certain litigation matters involving Visa. The conversion rate of Visa Class B shares into Visa Class A shares is 1.6298 at June 30, 2018, and may be adjusted by Visa depending on developments related to the litigation matters.

Note 3 - Fair value option

For a discussion of the primary financial instruments for which the fair value option was elected, including the basis for those elections and the determination of instrument-specific credit risk, where relevant, refer to Note 3 of JPMorgan Chase's 2017 Annual Report.

Changes in fair value under the fair value option election

The following table presents the changes in fair value included in the Consolidated statements of income for the three months ended June 30, 2018 and 2017, for items for which the fair value option was elected. The profit and loss information presented below only includes the financial instruments that were elected to be measured at fair value; related risk management instruments, which are required to be measured at fair value, are not included in the table.

	Three months ended June 30,												
				2018	3			2017					
(in millions)		Principal ansactions		All other income		l changes in fair ue recorded ^(e)		ncipal sactions				changes in fair e recorded ^(e)	
Federal funds sold and securities purchased under resale agreements	\$	(33)	\$	_	\$	(33)	\$	(12)	\$	_	\$	(12)	
Securities borrowed		29		-		29		13		_		13	
Trading assets:													
Debt and equity instruments, excluding loans		(259)		1 (c)		(258)		334		2 (c)		336	
Loans reported as trading assets:													
Changes in instrument-specific credit risk		214		(1) (c)		213		69		9 (c)		78	
Other changes in fair value		29		65 (c)		94		43	22	9 (c)		272	
Loans:													
Changes in instrument-specific credit risk		(1)		-		(1)		_		_		_	
Other changes in fair value		(1)		-		(1)		1		3 (c)		4	
Other assets		-		(3) ^(d)		(3)		3	(1	6) ^(d)		(13)	
Deposits ^(a)		129		-		129		(86)		_		(86)	
Federal funds purchased and securities loaned or sold under repurchase agreements		9		_		9		(3)		_		(3)	
Short-term borrowings ^(a)		(162)		-		(162)		43		_		43	
Trading liabilities		6		-		6		_		_		_	
Beneficial interests issued by consolidated VIEs		-		-		_		_		_		_	
Long-term debt ^{(a)(b)}		196		_		196		(170)		_		(170)	

	Six months ended June 30,												
				2018	3					201	7		
(in millions)	Princi transac			l other icome		al changes in fair alue recorded ^(e)		rincipal nsactions		other ome		Total changes in fair value recorded ^(e)	
Federal funds sold and securities purchased under resale agreements	\$ ((26)	\$	_	\$	(26)	\$	(33)	\$	_	,	(33)	
Securities borrowed		2		-		2		90		-		90	
Trading assets:				_									
Debt and equity instruments, excluding loans	(4	45)		1 (c)		(444)		695		2 ()	697	
Loans reported as trading assets:				-									
Changes in instrument-specific credit risk	3	36		4 (c)		340		243	:	.5 ()	258	
Other changes in fair value		70	((25) (c)		45		77	3	2 ()	429	
Loans:				_									
Changes in instrument-specific credit risk		(1)		-		(1)		(1)		_		(1)	
Other changes in fair value		(2)		-		(2)		1		3 (0)	4	
Other assets		2	((10) ^(d)		(8)		7	((2) (d)	(15)	
Deposits ^(a)	3	39		-		339		(245)		_		(245)	
Federal funds purchased and securities loaned or sold under repurchase agreements		19		_		19		2		_		2	
Other borrowed funds ^(a)	1	.11		-		111		(431)		_		(431)	
Trading liabilities		(1)		-		(1)		(1)		_		(1)	
Beneficial interests issued by consolidated VIEs		-		-		_		_		_		_	
Other liabilities		-		-		_		_		_		_	
Long-term debt ^{(a)(b)}	1,2	27		-		1,227		(923)		_		(923)	

⁽a) Unrealized gains/(losses) due to instrument-specific credit risk (DVA) for liabilities for which the fair value option has been elected is recorded in OCI, while realized gains/(losses) are recorded in principal transactions revenue. Realized gains/(losses) due to instrument-specific credit risk recorded in principal transaction revenue were not material for the three and six months ended June 30, 2018 and 2017, respectively.

⁽b) Long-term debt measured at fair value predominantly relates to structured notes. Although the risk associated with the structured notes is actively managed, the gains/(losses) reported in this table do not include the income statement impact of the risk management instruments used to manage such risk.

⁽c) Reported in mortgage fees and related income.

⁽d) Reported in other income.

⁽e) Changes in fair value exclude contractual interest, which is included in interest income and interest expense for all instruments other than hybrid financial instruments. For further information regarding interest income and interest expense, refer to Note 6.

Difference between aggregate fair value and aggregate remaining contractual principal balance outstanding

The following table reflects the difference between the aggregate fair value and the aggregate remaining contractual principal balance outstanding as of June 30, 2018, and December 31, 2017, for loans, long-term debt and long-term beneficial interests for which the fair value option has been elected.

			June	30, 2018				ı	Decen	nber 31, 20	17	
(in millions)	p	ntractual rincipal tstanding	Fair value		Fair value over/(under) contractual principal outstanding		-	ontractual principal utstanding		Fair value	OV CC	Tair value er/(under) ontractual orincipal utstanding
Loans ^(a)												
Nonaccrual loans												
Loans reported as trading assets	\$	4,078	\$	1,159	\$	(2,919)	\$	4,219	9	1,371	\$	(2,848)
Loans		_		_		_		39		_		(39)
Subtotal		4,078		1,159		(2,919)		4,258		1,371		(2,887)
All other performing loans												
Loans reported as trading assets		46,105		44,718		(1,387)		38,157		36,590		(1,567)
Loans		3,167		3,076		(91)		2,539		2,508		(31)
Total loans	\$	53,350	\$	48,953	\$	(4,397)	\$	44,954		40,469	\$	(4,485)
Long-term debt												
Principal-protected debt	\$	29,380	(c) \$	25,563	\$	(3,817)	\$	26,297	(c)	23,848	\$	(2,449)
Nonprincipal-protected debt ^(b)		NA		24,533		NA		NA		23,671		NA
Total long-term debt		NA	\$	50,096		NA		NA	:	47,519		NA
Long-term beneficial interests												
Nonprincipal-protected debt		NA	\$	1		NA		NA	!	45		NA
Total long-term beneficial interests		NA	\$	1		NA		NA		45		NA

- (a) There were no performing loans that were ninety days or more past due as of June 30, 2018, and December 31, 2017, respectively.
- (b) Remaining contractual principal is not applicable to nonprincipal-protected notes. Unlike principal-protected structured notes, for which the Firm is obligated to return a stated amount of principal at the maturity of the note, nonprincipal-protected structured notes do not obligate the Firm to return a stated amount of principal at maturity, but to return an amount based on the performance of an underlying variable or derivative feature embedded in the note. However, investors are exposed to the credit risk of the Firm as issuer for both nonprincipal-protected and principal protected notes.
- (c) Where the Firm issues principal-protected zero-coupon or discount notes, the balance reflects the contractual principal payment at maturity or, if applicable, the contractual principal payment at the Firm's next call date.

At June 30, 2018, and December 31, 2017, the contractual amount of lending-related commitments for which the fair value option was elected was \$10.9 billion and \$7.4 billion, respectively, with a corresponding fair value of \$(225) million and \$(76) million, respectively. For further information regarding off-balance sheet lending-related financial instruments, refer to Note 27 of JPMorgan Chase's 2017 Annual Report, and Note 20 of this Form 10-Q.

Structured note products by balance sheet classification and risk component

The following table presents the fair value of the structured notes issued by the Firm, by balance sheet classification and the primary risk type.

		June 30	, 2018		December 31, 2017							
(in millions)	Long-term debt	Short-term borrowings	Deposits	Total	Long-term debt	Short-term borrowings	Deposits	Total				
Risk exposure												
Interest rate	\$ 22,895	\$ 120	\$ 8,352	\$ 31,367	\$ 22,056	\$ 69	\$ 8,058	\$ 30,183				
Credit	3,976	1,134	-	5,110	4,329	1,312	_	5,641				
Foreign exchange	2,801	91	39	2,931	2,841	147	38	3,026				
Equity	19,688	6,969	6,891	33,548	17,581	7,106	6,548	31,235				
Commodity	259	13	2,256	2,528	230	15	4,468	4,713				
Total structured notes	\$ 49,619	\$ 8,327	\$ 17,538	\$ 75,484	\$ 47,037	\$ 8,649	\$ 19,112	\$ 74,798				

Note 4 - Derivative instruments

JPMorgan Chase makes markets in derivatives for clients and also uses derivatives to hedge or manage its own risk exposures. For a further discussion of the Firm's use of and accounting policies regarding derivative instruments, refer to Note 5 of JPMorgan Chase's 2017 Annual Report.

The Firm's disclosures are based on the accounting treatment and purpose of these derivatives. A limited number of the Firm's derivatives are designated in hedge accounting relationships and are disclosed according to the type of hedge (fair value hedge, cash flow hedge, or net investment hedge). Derivatives not designated in hedge accounting relationships include certain derivatives that are used to manage certain risks associated with specified assets or liabilities ("specified risk management" positions) as well as derivatives used in the Firm's market-making businesses or for other purposes.

Derivatives designated as hedges

The adoption of the new hedge accounting guidance in the first quarter of 2018 better aligns hedge accounting with the economics of the Firm's risk management activities. For additional information, refer to Note 17.

To qualify for hedge accounting, a derivative must be highly effective at reducing the risk associated with the exposure being hedged. In addition, for a derivative to be designated as a hedge, the risk management objective and strategy must be documented. Hedge documentation must identify the derivative hedging instrument, the asset or liability or forecasted transaction and type of risk to be hedged, and how the effectiveness of the derivative is assessed prospectively and retrospectively. To assess effectiveness, the Firm uses statistical methods such as regression analysis, nonstatistical methods such as dollar-value comparisons of the change in the fair value of the derivative to the change in the fair value or cash flows of the hedged item, and qualitative comparisons of critical terms and the evaluation of any changes in those terms. The extent to which a derivative has been, and is expected to continue to be, highly effective at offsetting changes in the fair value or

cash flows of the hedged item must be assessed and documented at least quarterly. If it is determined that a derivative is not highly effective at hedging the designated exposure, hedge accounting is discontinued.

For qualifying fair value hedges, changes in the fair value of the derivative, and in the value of the hedged item for the risk being hedged, are recognized in earnings. Certain amounts excluded from the assessment of effectiveness are recorded in OCI and recognized in earnings through an amortization approach over the life of the derivative. If the hedge relationship is terminated, then the adjustment to the hedged item continues to be reported as part of the basis of the hedged item, and for benchmark interest rate hedges, is amortized to earnings as a yield adjustment. Derivative amounts affecting earnings are recognized consistent with the classification of the hedged item - primarily net interest income and principal transactions revenue.

For qualifying cash flow hedges, changes in the fair value of the derivative are recorded in OCI and recognized in earnings as the hedged item affects earnings. Derivative amounts affecting earnings are recognized consistent with the classification of the hedged item - primarily interest income, interest expense, noninterest revenue and compensation expense. If the hedge relationship is terminated, then the change in value of the derivative recorded in AOCI is recognized in earnings when the cash flows that were hedged affect earnings. For hedge relationships that are discontinued because a forecasted transaction is not expected to occur according to the original hedge forecast, any related derivative values recorded in AOCI are immediately recognized in earnings.

For qualifying net investment hedges, changes in the fair value of the derivatives due to changes in spot foreign exchange rates are recorded in OCI as translation adjustments. Amounts excluded from the assessment of effectiveness are recorded directly in earnings.

The following table outlines the Firm's primary uses of derivatives and the related hedge accounting designation or disclosure category.

Type of Derivative	Use of Derivative	Designation and disclosure	Affected segment or unit	10-Q page reference
Manage specifically identif	ied risk exposures in qualifying hedge accounting relationships:			
Interest rate	Hedge fixed rate assets and liabilities	Fair value hedge	Corporate	115-116
Interest rate	Hedge floating-rate assets and liabilities	Cash flow hedge	Corporate	117
Foreign exchange	Hedge foreign currency-denominated assets and liabilities	Fair value hedge	Corporate	115-116
Foreign exchange	Hedge foreign currency-denominated forecasted revenue and expense	Cash flow hedge	Corporate	117
Foreign exchange	Hedge the value of the Firm's investments in non-U.S. dollar functional currency entities	Net investment hedge	Corporate	118
 Commodity 	Hedge commodity inventory	Fair value hedge	CIB	115-116
Manage specifically identif relationships:	ied risk exposures not designated in qualifying hedge accounting			
Interest rate	Manage the risk of the mortgage pipeline, warehouse loans and MSRs	Specified risk management	ССВ	118
Credit	Manage the credit risk of wholesale lending exposures	Specified risk management	CIB	118
Interest rate and foreign exchange	Manage the risk of certain other specified assets and liabilities	Specified risk management	Corporate	118
Market-making derivatives	and other activities:			
 Various 	Market-making and related risk management	Market-making and other	CIB	118
 Various 	Other derivatives	Market-making and other	CIB, Corporate	118

Notional amount of derivative contracts
The following table summarizes the notional amount of derivative contracts outstanding as of June 30, 2018, and December 31, 2017.

	Notional amounts(b)								
(in billions)		June 30, 2018	December 31, 2017						
Interest rate contracts									
Swaps	\$	25,329	\$ 21,043						
Futures and forwards		6,335	4,904						
Written options		4,402	3,576						
Purchased options		4,691	3,987						
Total interest rate contracts		40,757	33,510						
Credit derivatives ^(a)		1,528	1,522						
Foreign exchange contracts									
Cross-currency swaps		3,920	3,953						
Spot, futures and forwards		7,143	5,923						
Written options		910	786						
Purchased options		898	776						
Total foreign exchange contracts		12,871	11,438						
Equity contracts									
Swaps		377	367						
Futures and forwards		87	90						
Written options		579	531						
Purchased options		529	453						
Total equity contracts		1,572	1,441						
Commodity contracts									
Swaps		144	116						
Spot, futures and forwards		177	168						
Written options		142	98						
Purchased options		128	93						
Total commodity contracts		591	475						
Total derivative notional amounts	\$	57,319	\$ 48,386						

- (a) For more information on volumes and types of credit derivative contracts, refer to the Credit derivatives discussion on page 119.
- (b) Represents the sum of gross long and gross short third-party notional derivative contracts.

While the notional amounts disclosed above give an indication of the volume of the Firm's derivatives activity, the notional amounts significantly exceed, in the Firm's view, the possible losses that could arise from such transactions. For most derivative transactions, the notional amount is not exchanged; it is used simply as a reference to calculate payments.

Impact of derivatives on the Consolidated balance sheets

The following table summarizes information on derivative receivables and payables (before and after netting adjustments) that are reflected on the Firm's Consolidated balance sheets as of June 30, 2018, and December 31, 2017, by accounting designation (e.g., whether the derivatives were designated in qualifying hedge accounting relationships or not) and contract type.

Free-standing derivative receivables and payables(a)

	Gross	s deriva	ative receiv	ables			bles			
June 30, 2018 (in millions)	Not designated as hedges		Total Designated derivati as hedges receivab		Net derivative receivables ^(b)		Not designated as hedges	signated hedges	Total derivative payables	Net erivative yables ^(b)
Trading assets and liabilities										
Interest rate	\$ 280,176	\$	835	\$ 281,011	\$	22,971	\$ 253,982	\$ 1	\$ 253,983	\$ 8,615
Credit	20,934		_	20,934		624	20,778	-	20,778	1,502
Foreign exchange	195,436		1,036	196,472		16,763	186,487	1,080	187,567	12,521
Equity	44,965		_	44,965		10,176	48,384	-	48,384	11,482
Commodity	21,637		231	21,868		7,976	23,049	101	23,150	8,391
Total fair value of trading assets and liabilities	\$ 563,148	\$	2,102	\$ 565,250	\$	58,510	\$ 532,680	\$ 1,182	\$ 533,862	\$ 42,511

	Gros	s derivative	eceiva	ables	Gross derivative payables						
December 31, 2017 (in millions)	Not designated as hedges	Designa as hedg		Total derivative receivables		Net lerivative ceivables ^(b)	Not designated as hedges		Designated as hedges	Total derivative payables	Net derivative payables ^(b)
Trading assets and liabilities		,								,	
Interest rate	\$ 314,962	(c) \$ 1,0	30 (c	\$ 315,992	\$	24,673	\$ 284,433	(c)	\$ 3 (\$ 284,436	\$ 7,129
Credit	23,205		-	23,205		869	23,252		_	23,252	1,299
Foreign exchange	159,740	4	91	160,231		16,151	154,601		1,221	155,822	12,473
Equity	40,040		_	40,040		7,882	45,395		_	45,395	9,192
Commodity	20,066		19	20,085		6,948	21,498		403	21,901	7,684
Total fair value of trading assets and liabilities	\$ 558,013	(c) \$ 1,5	40 (c	\$ 559,553	\$	56,523	\$ 529,179	(c)	\$ 1,627	s) \$ 530,806	\$ 37,777

⁽a) Balances exclude structured notes for which the fair value option has been elected. Refer to Note 3 for further information.

⁽b) As permitted under U.S. GAAP, the Firm has elected to net derivative receivables and derivative payables and the related cash collateral receivables and payables when a legally enforceable master netting agreement exists.

⁽c) The prior period amounts have been revised to conform with the current period presentation.

Derivatives netting

The following tables present, as of June 30, 2018, and December 31, 2017, gross and net derivative receivables and payables by contract and settlement type. Derivative receivables and payables, as well as the related cash collateral from the same counterparty have been netted on the Consolidated balance sheets where the Firm has obtained an appropriate legal opinion with respect to the master netting agreement. Where such a legal opinion has not been either sought or obtained, amounts are not eligible for netting on the Consolidated balance sheets, and those derivative receivables and payables are shown separately in the tables below.

In addition to the cash collateral received and transferred that is presented on a net basis with derivative receivables and payables, the Firm receives and transfers additional collateral (financial instruments and cash). These amounts mitigate counterparty credit risk associated with the Firm's derivative instruments, but are not eligible for net presentation:

- collateral that consists of non-cash financial instruments (generally U.S. government and agency securities and other G7 government securities) and cash collateral held at third party custodians, which are shown separately as "Collateral not nettable on the Consolidated balance sheets" in the tables below, up to the fair value exposure amount.
- the amount of collateral held or transferred that exceeds the fair value exposure at the individual counterparty level, as of the date presented, which is excluded from the tables below; and
- collateral held or transferred that relates to derivative receivables or payables where an appropriate legal opinion has not been either sought or obtained with respect to the master netting agreement, which is excluded from the tables below.

		June 30, 2018			December 31, 2017	
(in millions)	Gross derivative receivables	Amounts netted on the Consolidated balance sheets	Net derivative receivables	Gross derivative receivables	Amounts netted on the Consolidated balance sheets	Net derivative receivables
U.S. GAAP nettable derivative receivables						
Interest rate contracts:						
Over-the-counter ("OTC")	\$ 269,291	\$ (249,903)	\$ 19,388	\$ 305,569	\$ (284,917)	\$ 20,652
OTC-cleared	7,958	(7,936)	22	6,531	(6,318)	213
Exchange-traded ^(a)	310	(201)	109	185	(84)	101
Total interest rate contracts	277,559	(258,040)	19,519	312,285	(291,319)	20,966
Credit contracts:						
ОТС	12,588	(12,244)	344	15,390	(15,165)	225
OTC-cleared	8,137	(8,066)	71	7,225	(7,170)	55
Total credit contracts	20,725	(20,310)	415	22,615	(22,335)	280
Foreign exchange contracts:						
ОТС	192,088	(179,280)	12,808	155,289	(142,420)	12,869
OTC-cleared	417	(408)	9	1,696	(1,654)	42
Exchange-traded ^(a)	39	(21)	18	141	(7)	134
Total foreign exchange contracts	192,544	(179,709)	12,835	157,126	(144,081)	13,045
Equity contracts:		'				
OTC	24,300	(21,376)	2,924	22,024	(19,917)	2,107
Exchange-traded ^(a)	15,836	(13,413)	2,423	14,188	(12,241)	1,947
Total equity contracts	40,136	(34,789)	5,347	36,212	(32,158)	4,054
Commodity contracts:						
OTC	11,443	(4,553)	6,890	10,903	(4,436)	6,467
Exchange-traded ^(a)	9,806	(9,339)	467	8,854	(8,701)	153
Total commodity contracts	21,249	(13,892)	7,357	19,757	(13,137)	6,620
Derivative receivables with appropriate legal opinion	552,213	(506,740) ^(b)	45,473	547,995	(503,030) ^(b)	44,965
Derivative receivables where an appropriate legal opinion has not been either sought or obtained	13,037		13,037	11,558		11,558
Total derivative receivables recognized on the Consolidated balance sheets	\$ 565,250		\$ 58,510	\$ 559,553		\$ 56,523
Collateral not nettable on the Consolidated balance sheets $^{\text{(c)(d)}}$			(13,572))		(13,363
Net amounts			\$ 44,938			\$ 43,160

			June 30, 2018		December 31, 2017						
(in millions)	deriv	oss ⁄ative ables	Amounts netted on the Consolidated balance sheets	Net erivative ayables		Gross erivative ayables	Amounts netted on the Consolidated balance sheets			Net erivative ayables	
U.S. GAAP nettable derivative payables											
Interest rate contracts:											
отс	\$ 24	44,282	\$ (237,947)	\$ 6,335	\$	276,960	\$ ((271,294)	\$	5,666	
OTC-cleared		7,301	(7,220)	81		6,004		(5,928)		76	
Exchange-traded ^(a)		210	(201)	9		127		(84)		43	
Total interest rate contracts	25	51,793	(245,368)	6,425		283,091	((277,306)		5,785	
Credit contracts:											
ОТС	1	13,255	(11,898)	1,357		16,194		(15,170)		1,024	
OTC-cleared		7,420	(7,378)	42		6,801		(6,784)		17	
Total credit contracts		20,675	(19,276)	1,399		22,995		(21,954)		1,041	
Foreign exchange contracts:											
ОТС	18	83,951	(174,600)	9,351		150,966	((141,789)		9,177	
OTC-cleared		450	(439)	11		1,555		(1,553)		2	
Exchange-traded ^(a)		23	(7)	16		98		(7)		91	
Total foreign exchange contracts	18	84,424	(175,046)	9,378		152,619	((143,349)		9,270	
Equity contracts:											
ОТС	2	28,247	(23,402)	4,845		28,193		(23,969)		4,224	
Exchange-traded ^(a)	1	14,243	(13,500)	743		12,720		(12,234)		486	
Total equity contracts		42,490	(36,902)	5,588		40,913		(36,203)		4,710	
Commodity contracts:											
ОТС	1	13,215	(5,492)	7,723		12,645		(5,508)		7,137	
Exchange-traded ^(a)		9,402	(9,267)	135		8,870		(8,709)		161	
Total commodity contracts	7	22,617	(14,759)	7,858		21,515		(14,217)		7,298	
Derivative payables with appropriate legal opinion	52	21,999	(491,351) ^(b)	30,648		521,133	((493,029) ^(b)		28,104	
Derivative payables where an appropriate legal opinion has not been either sought or obtained	1	11,863		11,863		9,673				9,673	
Total derivative payables recognized on the Consolidated balance sheets	\$ 53	33,862		\$ 42,511	\$	530,806			\$	37,777	
Collateral not nettable on the Consolidated balance sheets ^{(c)(d)}				(4,363)						(4,180)	
Net amounts				\$ 38,148					\$	33,597	

⁽a) Exchange-traded derivative balances that relate to futures contracts are settled daily.

⁽b) Net derivatives receivable included cash collateral netted of \$57.3 billion and \$55.5 billion at June 30, 2018, and December 31, 2017, respectively. Net derivatives payable included cash collateral netted of \$41.9 billion and \$45.5 billion related to OTC and OTC-cleared derivatives at June 30, 2018, and December 31, 2017, respectively.

⁽c) Represents liquid security collateral as well as cash collateral held at third party custodians related to derivative instruments where an appropriate legal opinion has been obtained. For some counterparties, the collateral amounts of financial instruments may exceed the derivative receivables and derivative payables balances. Where this is the case, the total amount reported is limited to the net derivative receivables and net derivative payables balances with that counterparty.

⁽d) Derivative collateral relates only to OTC and OTC-cleared derivative instruments.

Liquidity risk and credit-related contingent features

For a more detailed discussion of liquidity risk and creditrelated contingent features related to the Firm's derivative contracts, refer to Note 5 of JPMorgan Chase's 2017 Annual Report.

The following table shows the aggregate fair value of net derivative payables related to OTC and OTC-cleared derivatives that contain contingent collateral or termination features that may be triggered upon a ratings downgrade, and the associated collateral the Firm has posted in the normal course of business, at June 30, 2018, and December 31, 2017.

OTC and OTC-cleared derivative payables containing downgrade triggers

(in millions)	June 30, 2018	December 31, 2017
Aggregate fair value of net derivative payables	\$ 10,796	\$ 11,916
Collateral posted	9,066	9,973

The following table shows the impact of a single-notch and two-notch downgrade of the long-term issuer ratings of JPMorgan Chase & Co. and its subsidiaries, predominantly JPMorgan Chase Bank, National Association ("JPMorgan Chase Bank, N.A."), at June 30, 2018, and December 31, 2017, related to OTC and OTC-cleared derivative contracts with contingent collateral or termination features that may be triggered upon a ratings downgrade. Derivatives contracts generally require additional collateral to be posted or terminations to be triggered when the predefined threshold rating is breached. A downgrade by a single rating agency that does not result in a rating lower than a preexisting corresponding rating provided by another major rating agency will generally not result in additional collateral, (except in certain instances in which additional initial margin may be required upon a ratings downgrade), nor in termination payments requirements. The liquidity impact in the table is calculated based upon a downgrade below the lowest current rating of the rating agencies referred to in the derivative contract.

Liquidity impact of downgrade triggers on OTC and OTC-cleared derivatives

	June 30	, 2018	December	31, 2017		
(in millions)	le-notch ⁄ngrade	Two-notch downgrade	ngle-notch owngrade		-notch ngrade	
Amount of additional collateral to be posted upon downgrade ^(a)	\$ 118	\$ 2,027	\$ 79	\$	1,989	
Amount required to settle contracts with termination triggers upon downgrade $^{(b)}$	242	860	320		650	

- (a) Includes the additional collateral to be posted for initial margin.
- (b) Amounts represent fair values of derivative payables, and do not reflect collateral posted.

Derivatives executed in contemplation of a sale of the underlying financial asset

In certain instances the Firm enters into transactions in which it transfers financial assets but maintains the economic exposure to the transferred assets by entering into a derivative with the same counterparty in contemplation of the initial transfer. The Firm generally accounts for such transfers as collateralized financing transactions as described in Note 10, but in limited circumstances they may qualify to be accounted for as a sale and a derivative under U.S. GAAP. The amount of such transfers accounted for as a sale where the associated derivative was outstanding at June 30, 2018 was not material, and there were no such transfers at December 31, 2017.

Impact of derivatives on the Consolidated statements of income

The following tables provide information related to gains and losses recorded on derivatives based on their hedge accounting designation or purpose.

Fair value hedge gains and losses

The following tables present derivative instruments, by contract type, used in fair value hedge accounting relationships, as well as pre-tax gains/(losses) recorded on such derivatives and the related hedged items for the three and six months ended June 30, 2018 and 2017, respectively. The Firm includes gains/(losses) on the hedging derivative in the same line item in the Consolidated statements of income as the related hedged item.

		Gains/(I	osses)	recorded i	n in	come		Income stater excluded co		OCI impact		
Three months ended June 30, 2018 (in millions)	Dei	Derivatives Hedged items				Income statement impact	,	Amortization approach	Changes in fair value			Derivatives - ains/(losses) corded in OCI ^(g)
Contract type												
Interest rate ^{(a)(b)}	\$	(400)	\$	553	\$	153	\$	_	\$	152	\$	_
Foreign exchange ^(c)		376		(254)		122		(145)		122		(89)
Commodity ^(d)		11		(18)		(7)		-		16		_
Total	\$	(13)	\$	281	\$	268	\$	(145)	\$	290	\$	(89)

		Gains/(I	osse	es) recorded i	- II	Income statement impact due to:				
Three months ended June 30, 2017 (in millions)	D	erivatives	Не	edged items	Income statement impact	ine	Hedge effectiveness ^(e)	Excluded components ^(f)		
Contract type										
Interest rate ^{(a)(b)}	\$	128	\$	46	\$ 174	\$	(13) \$	187		
Foreign exchange ^(c)		(1,497)		1,493	(4)		_	(4)		
Commodity ^(d)		97		(64)	33		3	30		
Total	\$	(1,272)	\$	1,475	\$ 203	\$	(10) \$	213		

		Gains/(I	osses)) recorded ii	n in	come	Income stater excluded co			OCI impact		
Six months ended June 30, 2018 (in millions)	De	Derivatives Hedged items				Income statement impact	 Amortization approach	Ch	anges in fair value	G	Derivatives - ains/(losses) corded in OCI ^(g)	
Contract type												
Interest rate ^{(a)(b)}	\$	(1,877)	\$	2,182	\$	305	\$ _	\$	299	\$	_	
Foreign exchange ^(c)		520		(287)		233	(267)		233		(141)	
Commodity ^(d)		195		(165)		30	-		34			
Total	\$	(1,162)	\$	1,730	\$	568	\$ (267)	\$	566	\$	(141)	

	Gains/(lo	osse	es) recorded ii	lr	Income statement impact due to:				
Six months ended June 30, 2017 (in millions)	Derivatives	Н	edged items	Income statement impact	ine	Hedge effectiveness ^(e)	Excluded components ^(f)		
Contract type									
Interest rate ^{(a)(b)}	\$ (153)	\$	577	\$ 424	\$	(14) \$	438		
Foreign exchange ^(c)	(2,272)		2,233	(39)		_	(39)		
Commodity ^(d)	(366)		400	34		19	15		
Total	\$ (2,791)	\$	3,210	\$ 419	\$	5 \$	414		

⁽a) Primarily consists of hedges of the benchmark (e.g., London Interbank Offered Rate ("LIBOR")) interest rate risk of fixed-rate long-term debt and AFS securities. Gains and losses were recorded in net interest income.

⁽b) Excludes the amortization expense associated with the inception hedge accounting adjustment applied to the hedged item. This expense is recorded in net interest income and substantially offsets the income statement impact of the excluded components. Also excludes the accrual of interest on interest rate swaps and the related hedged items.

⁽c) Primarily consists of hedges of the foreign currency risk of long-term debt and AFS securities for changes in spot foreign currency rates. Gains and losses related to the derivatives and the hedged items due to changes in foreign currency rates and the income statement impact of excluded components were recorded primarily in principal transactions revenue and net interest income.

⁽d) Consists of overall fair value hedges of physical commodities inventories that are generally carried at the lower of cost or net realizable value (net realizable value approximates fair value). Gains and losses were recorded in principal transactions revenue.

⁽e) Hedge ineffectiveness is the amount by which the gain or loss on the designated derivative instrument does not exactly offset the gain or loss on the hedged item attributable to the hedged risk.

⁽f) The assessment of hedge effectiveness excludes certain components of the changes in fair values of the derivatives and hedged items such as forward points on foreign exchange forward contracts, time values and cross-currency basis spreads. Under the new hedge accounting guidance, the initial amount of the excluded components may be amortized into income over the life of the derivative, or changes in fair value may be recognized in current period earnings.

⁽g) Represents the change in value of amounts excluded from the assessment of effectiveness under the amortization approach, predominantly cross-currency basis spreads. The amount excluded at inception of the hedge is recognized in earnings over the life of the derivative.

As of June 30, 2018, the following amounts were recorded on the Consolidated balance sheets related to certain cumulative fair value hedge basis adjustments that are expected to impact the income statement in future periods (e.g., as adjustments to yield or to securities gains/losses).

				Cumulative amount of fair value hedging adjustments included in the carrying amount of hedged items:							
June 30, 2018 (in millions)	of t	ying amount the hedged tems ^{(a)(b)}		Active hedging relationships	Discontinued hedging relationships ^(d)	Total					
Assets											
Investment securities - AFS	\$	47,402	(c) \$	(1,861)	\$ 488	\$ (1,373)					
Liabilities	'										
Long-term debt	\$	131,705	\$	(1,413)	\$ (11)	\$ (1,424)					
Beneficial interests issued by consolidated VIEs		7,665		-	(51)	(51)					

- (a) Excludes physical commodities with a carrying value of \$6.2 billion to which the Firm applies fair value hedge accounting. As a result of the application of hedge accounting, these inventories are carried at fair value, thus recognizing unrealized gains and losses in current periods. Given the Firm exits these positions at fair value, there is no incremental impact to net income in future periods.
- (b) Excludes hedged items where only foreign currency risk is the designated hedged risk, as basis adjustments related to foreign currency hedges generally will not impact the income statement in future periods. The carrying amount excluded for available-for-sale securities is \$15.4 billion and for long-term debt is \$7.2 billion.
- (c) Carrying amount represents the amortized cost.
- (d) Represents hedged items no longer designated in qualifying fair value hedging relationships for which an associated basis adjustment exists at the balance sheet date.

Cash flow hedge gains and losses

The following tables present derivative instruments, by contract type, used in cash flow hedge accounting relationships, and the pre-tax gains/(losses) recorded on such derivatives, for the three and six months ended June 30, 2018 and 2017, respectively. The Firm includes the gain/(loss) on the hedging derivative in the same line item in the Consolidated statements of income as the change in cash flows on the related hedged item.

		Derivatives gains/(losses) recorded in income and other comprehensive income/(loss)							
Three months ended June 30, 2018 (in millions)	•	Amounts reclassified from AOCI to income	Total change in OCI for period						
Contract type									
Interest rate ^(a)		\$ 13	\$ (33) \$	(46)					
Foreign exchange ^(b)		6	(166)	(172)					
Total		\$ 19 \$ (199) \$							

	Deriv		losses) recorded in i rehensive income/(I		ier
Three months ended June 30, 2017 (in millions)	reclass	nounts sified from to income	Amounts recorded in OCI ^(c)	Total chan in OCI for perio	_
Contract type					
Interest rate ^(a)	\$	(6) \$	5 1	\$	7
Foreign exchange ^(b)		(59)	22		81
Total	\$	(65) \$	23	\$	88

	Derivatives gains/(losses) recorded in income and o comprehensive income/(loss)								
Six months ended June 30, 2018 (in millions)		Amounts reclassified from AOCI to income	Total change in OCI for period						
Contract type									
Interest rate ^(a)	9	26	\$ (111) \$ (137)					
Foreign exchange ^(b)		45	(132	(177)					
Total	9	71	\$ (243) \$ (314)					

		Derivatives gains/(losses) recorded in income comprehensive income/(loss)						
Six months ended June 30, 2017 (in millions)	·	Amounts reclassified from Amounts recorded AOCI to income in OCI ^(c)				tal change in OCI or period		
Contract type								
Interest rate ^(a)		\$	(17) \$	12	\$	29		
Foreign exchange ^(b)			(133)	70		203		
Total		\$	(150) \$	82	\$	232		

- (a) Primarily consists of benchmark interest rate hedges of LIBOR-indexed floating-rate assets and floating-rate liabilities. Gains and losses were recorded in net interest income.
- (b) Primarily consists of hedges of the foreign currency risk of non-u.S. dollar-denominated revenue and expense. The income statement classification of gains and losses follows the hedged item primarily noninterest revenue and compensation expense.
- (c) Represents the effective portion of changes in value of the related hedging derivative. Hedge ineffectiveness is the amount by which the cumulative gain or loss on the designated derivative instrument exceeds the present value of the cumulative expected change in cash flows on the hedged item attributable to the hedged risk. The Firm did not recognize any ineffectiveness on cash flow hedges during the three and six months ended June 30, 2017.

The Firm did not experience any forecasted transactions that failed to occur for the three and six months ended June 30, 2018 and 2017.

Over the next 12 months, the Firm expects that approximately \$(54) million (after-tax) of net losses recorded in AOCI at June 30, 2018, related to cash flow hedges will be recognized in income. For terminated cash flow hedges, the maximum length of time over which

forecasted transactions are remaining is approximately five years.

For open cash flow hedges, the maximum length of time over which forecasted transactions are hedged is approximately seven years. The Firm's longer-dated forecasted transactions relate to core lending and borrowing activities.

Net investment hedge gains and losses

The following table presents hedging instruments, by contract type, that were used in net investment hedge accounting relationships, and the pre-tax gains/(losses) recorded on such instruments for the three and six months ended June 30, 2018 and 2017.

	2018				
Three months ended June 30, (in millions)	recorded in me ^{(a)(c)}	mounts ded in OCI		s recorded in ome ^{(a)(c)}	nounts ed in OCI ^(b)
Foreign exchange derivatives	\$ 4	\$ 1,204	\$	(50)	\$ (319)

	 2018		2017				
Six months ended June 30, (in millions)	recorded in me ^{(a)(c)}	nounts ded in OCI		s recorded in come ^{(a)(c)}		nounts ed in OCI ^(b)	
Foreign exchange derivatives	\$ (7)	\$ 815	\$	(112)	\$	(828)	

- (a) Certain components of hedging derivatives are permitted to be excluded from the assessment of hedge effectiveness, such as forward points on foreign exchange forward contracts. The Firm elects to record changes in fair value of these amounts directly in other income.
- (b) Represents the effective portion of changes in value of the related hedging derivative. The Firm did not recognize any ineffectiveness on net investment hedges directly in income during the three and six months ended June 30, 2017.
- (c) Excludes amounts reclassified from AOCI to income on the sale or liquidation of hedged entities. For additional information, refer to Note 17.

Gains and losses on derivatives used for specified risk management purposes

The following table presents pre-tax gains/(losses) recorded on a limited number of derivatives, not designated in hedge accounting relationships, that are used to manage risks associated with certain specified assets and liabilities, including certain risks arising from the mortgage pipeline, warehouse loans, MSRs, wholesale lending exposures, and foreign currency-denominated assets and liabilities.

		Derivatives gains/(losses) recorded in income									
	Thr	ree month June 3		S	ix months June 3						
(in millions)	2	018	2017		2018	2017					
Contract type											
Interest rate ^(a)	\$	(25) \$	238	\$	(235) \$	221					
Credit ^(b)		(3)	(7)		(10)	(52)					
Foreign exchange ^(c)		130 (14) 100 (3-									
Total	\$	102 \$	217	\$	(145) \$	135					

- (a) Primarily represents interest rate derivatives used to hedge the interest rate risk inherent in the mortgage pipeline, warehouse loans and MSRs, as well as written commitments to originate warehouse loans. Gains and losses were recorded predominantly in mortgage fees and related income.
- (b) Relates to credit derivatives used to mitigate credit risk associated with lending exposures in the Firm's wholesale businesses. These derivatives do not include credit derivatives used to mitigate counterparty credit risk arising from derivative receivables, which is included in gains and losses on derivatives related to market-making activities and other derivatives. Gains and losses were recorded in principal transactions revenue.
- (c) Primarily relates to derivatives used to mitigate foreign exchange risk of specified foreign currency-denominated assets and liabilities. Gains and losses were recorded in principal transactions revenue.

Gains and losses on derivatives related to market-making activities and other derivatives

The Firm makes markets in derivatives in order to meet the needs of customers and uses derivatives to manage certain risks associated with net open risk positions from its market-making activities, including the counterparty credit risk arising from derivative receivables. All derivatives not included in the hedge accounting or specified risk management categories above are included in this category. Gains and losses on these derivatives are primarily recorded in principal transactions revenue. Refer to Note 5 for information on principal transactions revenue.

Credit derivatives

For a more detailed discussion of credit derivatives, refer to Note 5 of JPMorgan Chase's 2017 Annual Report. The Firm does not use notional amounts of credit derivatives as the primary measure of risk management for such derivatives, because the notional amount does not take into account the probability of the occurrence of a credit event, the recovery value of the reference obligation, or related cash instruments and economic hedges, each of which reduces, in the Firm's view, the risks associated with such derivatives.

Total credit derivatives and credit-related notes

	Maximum payout/Notional amount									
June 30, 2018 (in millions)	Protection so	Protection purchased with Net protection Protection sold identical underlyings ^(b) (sold)/purchased ^(c)								
Credit derivatives										
Credit default swaps	\$ (699,0	32) \$	709,891	\$	10,809	\$	5,492			
Other credit derivatives ^(a)	(50,99	95)	52,285		1,290		10,956			
Total credit derivatives	(750,0	77)	762,176		12,099		16,448			
Credit-related notes	(.8)	_		(18)		7,516			
Total	\$ (750,0	95) \$	762,176	\$	12,081	\$	23,964			

		Maximum payout/Notional amount								
December 31, 2017 (in millions)	Pr	otection sold	Protection purchased with identical underlyings ^(b)		Net protection (sold)/purchased ^(c)		рі	Other otection rchased ^(d)		
Credit derivatives										
Credit default swaps	\$	(690,224)	\$	702,098	\$	11,874	\$	5,045		
Other credit derivatives ^(a)		(54,157)		59,158		5,001		11,747		
Total credit derivatives		(744,381)		761,256		16,875		16,792		
Credit-related notes		(18)		-		(18)		7,915		
Total	\$	(744,399)	\$	761,256	\$	16,857	\$	24,707		

- (a) Other credit derivatives largely consists of credit swap options.
- (b) Represents the total notional amount of protection purchased where the underlying reference instrument is identical to the reference instrument on protection sold; the notional amount of protection purchased for each individual identical underlying reference instrument may be greater or lower than the notional amount of protection sold.
- (c) Does not take into account the fair value of the reference obligation at the time of settlement, which would generally reduce the amount the seller of protection pays to the buyer of protection in determining settlement value.
- (d) Represents protection purchased by the Firm on referenced instruments (single-name, portfolio or index) where the Firm has not sold any protection on the identical reference instrument.

The following tables summarize the notional amounts by the ratings, maturity profile, and total fair value, of credit derivatives and credit-related notes as of June 30, 2018, and December 31, 2017, where JPMorgan Chase is the seller of protection. The maturity profile is based on the remaining contractual maturity of the credit derivative contracts. The ratings profile is based on the rating of the reference entity on which the credit derivative contract is based. The ratings and maturity profile of credit derivatives and credit-related notes where JPMorgan Chase is the purchaser of protection are comparable to the profile reflected below.

Protection sold – credit derivatives and credit-related notes ratings∞/maturity profile

June 30, 2018 (in millions)	<1 year	1	5 years	;	>5 years	Total notional amount		Fair value of receivables ^(b)		Fair value of payables ^(b)		let fair value
Risk rating of reference entity												
Investment-grade	\$ (124,866)	\$	(359,780)	\$	(43,198)	\$	(527,844)	\$	6,831	\$	(1,926)	\$ 4,905
Noninvestment-grade	(59,660)		(145,949)		(16,642)		(222,251)		6,925		(4,435)	2,490
Total	\$ (184,526)	\$	(505,729)	\$	(59,840)	\$	(750,095)	\$	13,756	\$	(6,361)	\$ 7,395

December 31, 2017 (in millions)	<1 year	1-5 years	>5 years	Total notional amount		Fair value of receivables ^(b)		Fair value of payables ^(b)		Net fair value
Risk rating of reference entity										
Investment-grade	\$ (159,286)	\$ (319,726)	\$ (39,429)	\$	(518,441)	\$	8,516	\$	(1,134)	\$ 7,382
Noninvestment-grade	(73,394)	(134,125)	(18,439)		(225,958)		7,407		(5,313)	2,094
Total	\$ (232,680)	\$ (453,851)	\$ (57,868)	\$	(744,399)	\$	15,923	\$	(6,447)	\$ 9,476

- (a) The ratings scale is primarily based on external credit ratings defined by S&P and Moody's.
- (b) Amounts are shown on a gross basis, before the benefit of legally enforceable master netting agreements and cash collateral received by the Firm.

Note 5 - Noninterest revenue and noninterest expense

Noninterest revenue

For a discussion of the components of and accounting policies for the Firm's noninterest revenue, refer to Note 6 of JPMorgan Chase's 2017 Annual Report.

The adoption of the revenue recognition guidance in the first quarter of 2018, requires gross presentation of certain costs previously offset against revenue, predominantly associated with certain distribution costs (previously offset against asset management, administration and commissions), with the remainder associated with certain underwriting costs (previously offset against investment banking fees). Adoption of the guidance did not result in any material changes in the timing of revenue recognition. This guidance was adopted retrospectively and, accordingly, prior period amounts were revised, which resulted in an increase in both noninterest revenue and noninterest expense. For additional information, refer to Note 1.

Investment banking fees

The following table presents the components of investment banking fees.

	TI	nree mor June		Six months ended June 30,				
(in millions)		2018 2				2018	2017	
Underwriting								
Equity	\$	573	\$	379	\$	925	\$	803
Debt		964		968		1,760		1,928
Total underwriting		1,537		1,347		2,685		2,731
Advisory		631		499		1,219		995
Total investment banking fees	\$	2,168	\$	1,846	\$	3,904	\$:	3,726

Principal transactions

The following table presents all realized and unrealized gains and losses recorded in principal transactions revenue. This table excludes interest income and interest expense on trading assets and liabilities, which are an integral part of the overall performance of the Firm's client-driven market-making activities. Refer to Note 6 for further information on interest income and interest expense. Trading revenue is presented primarily by instrument type. The Firm's client-driven market-making businesses generally utilize a variety of instrument types in connection with their market-making and related risk-management activities; accordingly, the trading revenue presented in the table below is not representative of the total revenue of any individual line of business.

	Thre	e mor June		ended	Six months ended June 30,				
(in millions)	2	2018 2017				2018	2017		
Trading revenue by instrument type									
Interest rate	\$	672	\$	588	\$	1,446	\$ 1,383		
Credit		648		278		1,028	958		
Foreign exchange		745		901		1,769	1,682		
Equity	1,	386		1,118		3,013	2,238		
Commodity		246		120		523	305		
Total trading revenue	3,	697		3,005		7,779	6,566		
Private equity gains/ (losses)		85		132		(45)	153		
Principal transactions	\$ 3,	782	\$	3,137	\$	7,734	\$ 6,719		

Lending- and deposit-related fees

The following table presents the components of lending- and deposit-related fees.

	Three months ended June 30,					Six months ended June 30,				
(in millions)		2018		2017		2018	2017			
Lending-related fees	\$	280	\$	269	\$	554	\$ 544			
Deposit-related fees		1,215		1,213		2,418	2,386			
Total lending- and deposit-related fees	\$	1,495	\$	1,482	\$	2,972	\$ 2,930			

Asset management, administration and commissions

The following table presents the components of Firmwide asset management, administration and commissions.

		nths ended 2 30,		hs ended 30,
(in millions)	2018	2017	2018	2017
Asset management fees				
Investment management fees ^(a)	\$ 2,671	\$ 2,551	\$ 5,365	\$ 4,967
All other asset management fees ^(b)	66	84	132	163
Total asset management fees	2,737	2,635	5,497	5,130
Total administration fees(c)	557	504	1,118	986
Commission and other fees				
Brokerage commissions	631	567	1,283	1,145
All other commissions and fees	379	341	715	663
Total commissions and fees	1,010	908	1,998	1,808
Total asset management, administration and commissions	\$ 4,304	\$ 4,047	\$ 8,613	\$ 7,924

- (a) Represents fees earned from managing assets on behalf of the Firm's clients, including investors in Firm-sponsored funds and owners of separately managed investment accounts.
- (b) Represents fees for services that are ancillary to investment management services, such as commissions earned on the sales or distribution of mutual funds to clients.
- (c) Predominantly includes fees for custody, securities lending, funds services and securities clearance.

Card income

The following table presents the components of card income:

	Three mon June		Six months ended June 30,					
(in millions)	2018	2017	2018	2017				
Interchange and merchant processing income	\$ 4,723	\$ 4,309	\$ 9,082	\$ 8,215				
Rewards costs and partner payments ^(a)	(3,527)	(2,689)	(6,411)	(5,214)				
Other card income(b)	(176)	(453)	(376)	(920)				
Total card income	\$ 1,020	\$ 1,167	\$ 2,295	\$ 2,081				

- (a) Includes an adjustment to the credit card rewards liability of approximately \$330 million.
- (b) Predominantly represents annual fees and new account origination costs, which are deferred and recognized on a straight-line basis over a 12-month period.

Other income

Other income on the Firm's Consolidated statements of income included the following:

	Three mor		Six months ended June 30,					
(in millions)	2018		2017		2018		2017	
Operating lease income	\$ 1,112	\$	873	\$	2,159	\$	1,697	

Noninterest expense

Other expense

Other expense on the Firm's Consolidated statements of income included the following:

	Th	nree mor June		Six months ended June 30,					
(in millions)		2018	2017		2018		2017		
Legal expense	\$	-	\$ 61	\$	70	\$	279		
FDIC-related expense		368	376		751		757		

Note 6 - Interest income and Interest expense

For a description of JPMorgan Chase's accounting policies regarding interest income and interest expense, refer to Note 7 of JPMorgan Chase's 2017 Annual Report.

The following table presents the components of interest income and interest expense.

		nths ended e 30,		hs ended e 30,
(in millions)	2018	2017	2018	2017
Interest income		·		
Loans ^(a)	\$11,634	\$ 9,995	\$22,708	\$19,746
Taxable securities	1,383	1,410	2,696	2,840
Non-taxable securities ^(b)	395	479	805	937
Total investment securities ^(a)	1,778	1,889	3,501	3,777
Trading assets	2,111	1,806	4,214	3,664
Federal funds sold and securities purchased under resale agreements	807	528	1,538	1,054
Securities borrowed(c)	148	(21)	210	(65)
Deposits with banks	1,543	1,018	2,864	1,743
All other interest- earning assets ^(d)	848	435	1,529	773
Total interest income	18,869	15,650	36,564	30,692
Interest expense		-	_	
Interest-bearing deposits	1,340	629	2,400	1,112
Federal funds purchased and securities loaned or sold under repurchase agreements	759	387	1,337	680
Short-term borrowings ^(e)	260	96	469	169
Trading liabilities – debt and all other interest- bearing liabilities ^(f)	901	515	1,561	920
Long-term debt	2,003	1,687	3,756	3,276
Beneficial interest issued by consolidated VIEs	121	128	244	263
Total interest expense	5,384	3,442	9,767	6,420
Net interest income	13,485	12,208	26,797	24,272
Provision for credit losses	1,210	1,215	2,375	2,530
Net interest income after provision for credit losses	\$ 12,275	\$10,993	\$ 24,422	\$21,742

- (a) Includes the amortization/accretion of unearned income (e.g., purchase premiums/discounts, net deferred fees/costs, etc.).
- (b) Represents securities which are tax-exempt for U.S. federal income tax purposes.
- (c) Negative interest income is related to client-driven demand for certain securities combined with the impact of low interest rates. This is matched book activity and the negative interest expense on the corresponding securities loaned is recognized in interest expense.
- (d) Includes held-for-investment margin loans, which are classified in accrued interest and accounts receivable, and all other interestearning assets included in other assets on the Consolidated balance sheets.
- (e) Includes commercial paper.
- (f) Other interest-bearing liabilities include brokerage customer payables.

Note 7 - Pension and other postretirement employee benefit plans

For a discussion of JPMorgan Chase's pension and OPEB plans, refer to Note 8 of JPMorgan Chase's 2017 Annual Report.

The following table presents the components of net periodic benefit costs reported in the Consolidated statements of income for the Firm's U.S. and non-U.S. defined benefit pension, defined contribution and OPEB plans.

	Thr	ee months	ended	June 30),		9	Six m	onths er	nded June 30,			
	 2018	2017	2	2018	20)17	2018	2	017	2	018	2017	
(in millions)	Defined be pension			OPEB	plans		Defined pension				ОРЕВ р	lans	
Components of net periodic benefit cost													
Benefits earned during the period	\$ 89	\$ 82	\$	-	\$	_	\$ 179	\$	164	\$	- \$	· –	
Interest cost on benefit obligations	139	150		6		7	278		299		12	14	
Expected return on plan assets	(247)	(242)		(26)		(24)	(495)		(483)		(52)	(48)	
Amortization:													
Net (gain)/loss	26	62		_		_	52		124		_	_	
Prior service cost/(credit)	(6)	(9)		_		_	(12)		(18)		_	_	
Settlement	_	_		_		_	-		(3)		_	_	
Net periodic defined benefit cost ^(a)	1	43		(20)		(17)	2		83		(40)	(34)	
Other defined benefit pension plans(b)	9	6		NA		NA	15		10		NA	NA	
Total defined benefit plans	10	49		(20)		(17)	17		93		(40)	(34)	
Total defined contribution plans	222	210		NA		NA	432		396		NA	NA	
Total pension and OPEB cost included in noninterest expense	\$ 232	\$ 259	\$	(20)	\$	(17)	\$ 449	\$	489	\$	(40) \$	(34)	

⁽a) Effective January 1, 2018, benefits earned during the period are reported in compensation expense; all other components of net periodic defined benefit costs are reported within other expense in the Consolidated statements of income.

The following table presents the fair values of plan assets for the U.S. defined benefit pension and OPEB plans and for the material non-U.S. defined benefit pension plans.

(in billions)	June 30, 2018	Decen	nber 31, 2017
Fair value of plan assets			
Defined benefit pension plans	\$ 19.2	\$	19.6
OPEB plans	2.7		2.8

There are no expected contributions to the U.S. defined benefit pension plan for 2018.

⁽b) Includes various defined benefit pension plans which are individually immaterial.

Note 8 - Employee share-based incentives

For a discussion of the accounting policies and other information relating to employee share-based incentives, refer to Note 9 of JPMorgan Chase's 2017 Annual Report.

The Firm recognized the following noncash compensation expense related to its various employee share-based incentive plans in its Consolidated statements of income.

	Thi	ree mor June		Six months ended June 30,				
(in millions)		2018		2017		2018		2017
Cost of prior grants of RSUs, stock appreciation rights ("SARs") and performance share units ("PSUs") that are amortized over their applicable vesting periods	\$	276	\$	290	\$	674	\$	600
Accrual of estimated costs of share-based awards to be granted in future periods including those to full- career eligible employees		304		235		612		526
Total noncash compensation expense related to employee share- based incentive plans	\$	580	\$	525	\$1	.,286	\$1	.,126

In the first quarter of 2018, in connection with its annual incentive grant for the 2017 performance year, the Firm granted 17 million RSUs and 516 thousand PSUs with weighted-average grant date fair values of \$111.17 per RSU and \$110.46 per PSU.

Note 9 - Investment securities

Investment securities consist of debt securities that are classified as AFS or HTM. Debt securities classified as trading assets are discussed in Note 2. Predominantly all of the Firm's AFS and HTM securities are held by Treasury and CIO in connection with its asset-liability management activities. At June 30, 2018, the investment securities portfolio consisted of debt securities with an average credit rating of AA+ (based upon external ratings where available, and where not available, based primarily upon internal ratings which correspond to ratings as defined by S&P and Moody's). For additional information regarding the investment securities portfolio, refer to Note 10 of JPMorgan Chase's 2017 Annual Report.

As a result of the adoption of the premium amortization accounting guidance in the first quarter of 2018, premiums

on purchased callable debt securities must be amortized to the earliest call date for debt securities with call features that are explicit, noncontingent and callable at fixed prices and on preset dates. The guidance primarily impacts obligations of U.S. states and municipalities held in the Firm's investment securities portfolio. For additional information, refer to Note 17.

As permitted by the new hedge accounting guidance, the Firm also elected to transfer U.S. government agency MBS, commercial MBS, and obligations of U.S. states and municipalities with a carrying value of \$22.4 billion from HTM to AFS in the first quarter of 2018. This transfer was a non-cash transaction. For additional information, refer to Note 17.

The amortized costs and estimated fair values of the investment securities portfolio were as follows for the dates indicated.

		June 3	0, 2018			Decembe	r 31, 2017	
(in millions)	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value
Available-for-sale securities								
Mortgage-backed securities:								
U.S. government agencies ^(a)	\$ 62,595	\$ 521	\$ 1,194	\$ 61,922	\$ 69,879	\$ 736	\$ 335	\$ 70,280
Residential:								
u.s.	6,996	152	30	7,118	8,193	185	14	8,364
Non-U.S.	2,457	107	2	2,562	2,882	122	1	3,003
Commercial	7,961	75	209	7,827	4,932	98	5	5,025
Total mortgage-backed securities	80,009	855	1,435	79,429	85,886	1,141	355	86,672
U.S. Treasury and government agencies	24,962	524	142	25,344	22,510	266	31	22,745
Obligations of U.S. states and municipalities	37,459	1,926	55	39,330	30,490	1,881	33	32,338
Certificates of deposit	75	_	_	75	59	_	_	59
Non-U.S. government debt securities	25,307	413	34	25,686	26,900	426	32	27,294
Corporate debt securities	2,078	58	3	2,133	2,657	101	1	2,757
Asset-backed securities:								
Collateralized loan obligations	21,145	22	21	21,146	20,928	69	1	20,996
Other	8,819	74	27	8,866	8,764	77	24	8,817
Total available-for-sale debt securities	199,854	3,872	1,717	202,009	198,194	3,961	477	201,678
Available-for-sale equity securities(b)	-	-	_	_	547	-	_	547
Total available-for-sale securities	199,854	3,872	1,717	202,009	198,741	3,961	477	202,225
Held-to-maturity securities								
Mortgage-backed securities:								
U.S. government agencies(c)	26,168	60	269	25,959	27,577	558	40	28,095
Commercial	_	-	_	_	5,783	1	74	5,710
Total mortgage-backed securities	26,168	60	269	25,959	33,360	559	114	33,805
Obligations of U.S. states and municipalities	4,838	96	20	4,914	14,373	554	80	14,847
Total held-to-maturity securities	31,006	156	289	30,873	47,733	1,113	194	48,652
Total investment securities	\$ 230,860	\$ 4,028	\$ 2,006	\$ 232,882	\$ 246,474	\$ 5,074	\$ 671	\$ 250,877

⁽a) Includes total U.S. government-sponsored enterprise obligations with fair values of \$39.1 billion and \$45.8 billion at June 30, 2018, and December 31, 2017, respectively.

⁽b) Effective January 1, 2018, the Firm adopted the recognition and measurement guidance. Equity securities that were previously reported as AFS securities were reclassified to other assets upon adoption.

⁽c) Included total U.S. government-sponsored enterprise obligations with amortized cost of \$20.1 billion and \$22.0 billion at June 30, 2018, and December 31, 2017, respectively.

Investment securities impairment

The following tables present the fair value and gross unrealized losses for investment securities by aging category at June 30, 2018, and December 31, 2017.

		Investn	nent securities w	ith gross unrealized	losses		
	Less tha	n 12 months	12 mor	nths or more			
June 30, 2018 (in millions)	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Total fair value	Total gross unrealized losses	
Available-for-sale securities							
Mortgage-backed securities:							
U.S. government agencies	\$ 36,060	\$ 868	\$ 6,309	\$ 326	\$ 42,369	\$ 1,194	
Residential:							
u.s.	1,345	23	455	7	1,800	30	
Non-u.s.	513	1	157	1	670	2	
Commercial	3,248	124	1,463	85	4,711	209	
Total mortgage-backed securities	41,166	1,016	8,384	419	49,550	1,435	
U.S. Treasury and government agencies	3,761	118	294	24	4,055	142	
Obligations of U.S. states and municipalities	2,217	21	1,220	34	3,437	55	
Certificates of deposit	-	_	_	-	_	-	
Non-U.S. government debt securities	3,786	13	1,308	21	5,094	34	
Corporate debt securities	191	3	_	_	191	3	
Asset-backed securities:							
Collateralized loan obligations	7,379	21	_	_	7,379	21	
Other	4,650	24	482	3	5,132	27	
Total available-for-sale securities	63,150	1,216	11,688	501	74,838	1,717	
Held-to-maturity securities	,						
Mortgage-backed securities							
U.S. government agencies	15,887	201	1,607	68	17,494	269	
Commercial	_	_	_	_	_	_	
Total mortgage-backed securities	15,887	201	1,607	68	17,494	269	
Obligations of U.S. states and municipalities	546	4	683	16	1,229	20	
Total held-to-maturity securities	16,433	205	2,290	84	18,723	289	
Total investment securities with gross unrealized losses	\$ 79,583	\$ 1,421	\$ 13,978	\$ 585	\$ 93,561	\$ 2,006	

				Investm	nent se	ecurities w	ith gross unre	alized	losse	<u>!</u> S		
	Le	ess tha	n 12 month	S		12 mor	nths or more					
December 31, 2017 (in millions)	Fair value			Gross unrealized losses		ir value	Gross unrealized losses		- Total fair value		Total gross unrealized losses	
Available-for-sale securities												
Mortgage-backed securities:												
U.S. government agencies	\$ 3	6,037	\$	139	\$	7,711	\$	196	\$	43,748	\$	335
Residential:												
u.s.		1,112		5		596		9	\$	1,708		14
Non-u.s.		_		_		266		1		266		1
Commercial		528		4		335		1		863		5
Total mortgage-backed securities	3	7,677		148		8,908		207		46,585		355
U.S. Treasury and government agencies		1,834		11		373		20		2,207		31
Obligations of U.S. states and municipalities		949		7		1,652		26		2,601		33
Certificates of deposit		_		_		_		_		_		_
Non-U.S. government debt securities		6,500		15		811		17		7,311		32
Corporate debt securities		_		_		52		1		52		1
Asset-backed securities:												
Collateralized loan obligations		_		_		276		1		276		1
Other		3,521		20		720		4		4,241		24
Total available-for-sale securities	5	0,481		201		12,792	•	276		63,273		477
Held-to-maturity securities												
Mortgage-backed securities												
U.S. government agencies		4,070		38		205		2		4,275		40
Commercial		3,706		41		1,882		33		5,588		74
Total mortgage-backed securities		7,776		79		2,087	•	35		9,863		114
Obligations of U.S. states and municipalities		584		9		2,131		71		2,715		80
Total held-to-maturity securities		8,360		88		4,218		106		12,578		194
Total investment securities with gross unrealized losses	\$ 5	8,841	\$	289	\$	17,010	\$	382	\$	75,851	\$	671

Gross unrealized losses

The Firm has recognized unrealized losses on investment securities that it intends to sell as OTTI. The Firm does not intend to sell any of the remaining investment securities with an unrealized loss in AOCI as of June 30, 2018, and it is not likely that the Firm will be required to sell these securities before recovery of their amortized cost basis. Except for the securities for which credit losses have been recognized in income, the Firm believes that the investment securities with an unrealized loss in AOCI as of June 30, 2018, are not other-than-temporarily impaired. For additional information on other-than-temporary impairment, refer to Note 10 of the JPMorgan Chase's 2017 Annual Report.

Investment securities gains and losses

The following table presents realized gains and losses and OTTI from AFS securities that were recognized in income.

	Th	ree mont June 3	 	Six months ended June 30,					
(in millions)		2018	2017		2018	2017			
Realized gains	\$	9	\$ 393	\$	79 \$	542			
Realized losses		(88)	(427)		(403)	(572)			
OTTI losses		(1)	_		(1)	(7)			
Net investment securities gains/ (losses)	\$	(80)	\$ (34)	\$	(325) \$	(37)			
OTTI losses									
Credit-related losses recognized in income	\$	- 9	\$ _	\$	- \$	_			
Investment securities the Firm intends to sell ^(a)		(1)	_		(1)	(7)			
Total OTTI losses recognized in income	\$	(1)	\$ _	\$	(1) \$	(7)			

⁽a) Excludes realized losses on securities sold of \$20 million and \$5 million for the six months ended June 30, 2018 and 2017 that had been previously reported as an OTTI loss due to the intention to sell the securities.

Changes in the credit loss component of credit-impaired debt securities

The cumulative credit loss component, including any changes therein, of OTTI losses that have been recognized in income related to AFS securities that the Firm does not intend to sell was not material as of and during the six month periods ended June 30, 2018 and 2017.

Contractual maturities and yields

The following table presents the amortized cost and estimated fair value at June 30, 2018, of JPMorgan Chase's investment securities portfolio by contractual maturity.

By remaining maturity June 30, 2018 (in millions)		ie in one ar or less		ue after one ar through five years		ue after five irs through 10 years		Due after 10 years ^(c)		Total
Available-for-sale securities										
Mortgage-backed securities ^(a)										
Amortized cost	\$	261	\$	429	\$	5,664	\$	73,655	\$	80,009
Fair value		264		433		5,742		72,990		79,429
Average yield ^(b)		1.81%	ò	2.49%		3.49%		3.48%		3.47%
U.S. Treasury and government agencies										
Amortized cost	\$	79	\$	_	\$	19,446	\$	5,437	\$	24,962
Fair value		79		_		19,516		5,749		25,344
Average yield ^(b)		1.99%	ò	-%		3.53%		2.91%		3.39%
Obligations of U.S. states and municipalities										
Amortized cost	\$	148	\$	701	\$	2,501	\$	34,109	\$	37,459
Fair value		149		716		2,597		35,868		39,330
Average yield ^(b)		1.94%	ò	3.39%		4.98%		4.91%		4.87%
Certificates of deposit										
Amortized cost	\$	75	\$	_	\$	_	\$	_	\$	75
Fair value		75		_		_		_		75
Average yield ^(b)		0.49%	ò	-%		-%		-%		0.49%
Non-U.S. government debt securities										
Amortized cost	\$	4,745	\$	14,565	\$	5,997	\$	_	\$	25,307
Fair value		4,745		14,782		6,159		_		25,686
Average yield(b)		3.27%	ò	1.61%		1.37%		-%		1.86%
Corporate debt securities										
Amortized cost	\$	70	\$	968	\$	901	\$	139	\$	2,078
Fair value		70		989		929		145		2,133
Average yield ^(b)		3.98%	D	4.34%		4.52%		3.45%		4.34%
Asset-backed securities										
Amortized cost	\$	_	\$	4,295	\$	7,785	\$	17,884	\$	29,964
Fair value		_		4,271		7,790		17,951		30,012
Average yield(b)		-%	ò	2.61%		3.25%		2.98%		3.00%
Total available-for-sale securities										
Amortized cost	\$	5,378	\$	20,958	\$	42,294	\$	131,224	\$	199,854
Fair value		5,382		21,191		42,733		132,703		202,009
Average yield(b)		3.11%)	2.02%		3.28%		3.76%		3.46%
Held-to-maturity securities										
Mortgage-backed securities(a)										
Amortized cost	\$	_	\$	_	\$	2,083	\$	24,085	\$	26,168
Fair value		_		_		2,068		23,891		25,959
Average yield ^(b)		-%	D	-%		3.52%		3.33%		3.34%
Obligations of U.S. states and municipalities										
Amortized cost	\$	_	\$	_	\$	_	\$	4,838	\$	4,838
Fair value	•	_		_		_		4,914		4,914
Average yield ^(b)		-%	D	-%		-%		4.12%		4.12%
Total held-to-maturity securities										
Amortized cost	\$	_	\$	_	\$	2,083	\$	28,923	\$	31,006
Fair value	•	_	•	_	•	2,068	•	28,805	•	30,873
Average yield ^(b)		-%		-%		3.52%		3.46%		3.46%

⁽a) As of June 30, 2018, mortgage-backed securities issued by Fannie Mae exceeded 10% of JPMorgan Chase's total stockholders' equity; the amortized cost and fair value of such securities was \$51.3 billion and \$51.1 billion, respectively.

⁽b) Average yield is computed using the effective yield of each security owned at the end of the period, weighted based on the amortized cost of each security. The effective yield considers the contractual coupon, amortization of premiums and accretion of discounts, and the effect of related hedging derivatives. Taxable-equivalent amounts are used where applicable. The effective yield excludes unscheduled principal prepayments; and accordingly, actual maturities of securities may differ from their contractual or expected maturities as certain securities may be prepaid.

⁽c) Includes investment securities with no stated maturity. Substantially all of the Firm's U.S. residential MBS and collateralized mortgage obligations are due in 10 years or more, based on contractual maturity. The estimated weighted-average life, which reflects anticipated future prepayments, is approximately 7 years for agency residential MBS, 3 years for agency residential collateralized mortgage obligations and 3 years for nonagency residential collateralized mortgage obligations.

Note 10 - Securities financing activities

For a discussion of accounting policies relating to securities financing activities, refer to Note 11 of JPMorgan Chase's 2017 Annual Report. For further information regarding securities borrowed and securities lending agreements for which the fair value option has been elected, refer to Note 3. For further information regarding assets pledged and collateral received in securities financing agreements, refer to Note 21.

The table below summarizes the gross and net amounts of the Firm's securities financing agreements as of June 30, 2018 and December 31, 2017. When the Firm has obtained an appropriate legal opinion with respect to the master netting agreement with a counterparty and where other relevant netting criteria under U.S. GAAP are met, the Firm nets, on the Consolidated balance sheets, the balances

outstanding under its securities financing agreements with the same counterparty. In addition, the Firm exchanges securities and/or cash collateral with its counterparties; this collateral also reduces the economic exposure with the counterparty. Such collateral, along with securities financing balances that do not meet all these relevant netting criteria under U.S. GAAP, is presented as "Amounts not nettable on the Consolidated balance sheets," and reduces the "Net amounts" presented below, if the Firm has an appropriate legal opinion with respect to the master netting agreement with the counterparty. Where a legal opinion has not been either sought or obtained, the securities financing balances are presented gross in the "Net amounts" below, and related collateral does not reduce the amounts presented.

						June 30, 2018		
(in millions)	(Gross amounts	tl	nounts netted on he Consolidated balance sheets	on	mounts presented the Consolidated balance sheets ^(b)	amounts not nettable on the Consolidated balance sheets ^(c)	Net ounts ^(d)
Assets								
Securities purchased under resale agreements	\$	541,760	\$	(315,405)	\$	226,355	\$ (217,139)	\$ 9,216
Securities borrowed		127,331		(19,085)		108,246	(75,197)	33,049
Liabilities								
Securities sold under repurchase agreements	\$	480,097	\$	(315,405)	\$	164,692	\$ (149,808)	\$ 14,884
Securities loaned and other(a)		35,520		(19,085)		16,435	(16,015)	420

						December 31, 2017	7		
(in millions)	C	Gross amounts	tł	nounts netted on ne Consolidated balance sheets	on	mounts presented the Consolidated palance sheets ^(b)		Amounts not nettable on the Consolidated balance sheets ^(c)	Net ounts ^(d)
Assets									
Securities purchased under resale agreements	\$	448,608	\$	(250,505)	\$	198,103	\$	(188,502)	\$ 9,601
Securities borrowed		113,926		(8,814)		105,112		(76,805)	28,307
Liabilities									
Securities sold under repurchase agreements	\$	398,218	\$	(250,505)	\$	147,713	\$	(129,178)	\$ 18,535
Securities loaned and other(a)		27,228		(8,814)		18,414		(18,151)	263

- (a) Includes securities-for-securities lending transactions of \$6.6 billion and \$9.2 billion at June 30, 2018 and December 31, 2017, respectively, accounted for at fair value, where the Firm is acting as lender. These amounts are presented within other liabilities in the Consolidated balance sheets.
- (b) Includes securities financing agreements accounted for at fair value. At June 30, 2018 and December 31, 2017, included securities purchased under resale agreements of \$12.8 billion and \$14.7 billion, respectively and securities sold under agreements to repurchase of \$866 million and \$697 million, respectively. There were \$4.1 billion and \$3.0 billion of securities borrowed at June 30, 2018 and December 31, 2017, respectively. There were no securities loaned accounted for at fair value in either period.
- (c) In some cases, collateral exchanged with a counterparty exceeds the net asset or liability balance with that counterparty. In such cases, the amounts reported in this column are limited to the related asset or liability with that counterparty.
- (d) Includes securities financing agreements that provide collateral rights, but where an appropriate legal opinion with respect to the master netting agreement has not been either sought or obtained. At June 30, 2018 and December 31, 2017, included \$5.2 billion and \$7.5 billion, respectively, of securities purchased under resale agreements; \$30.0 billion and \$25.5 billion, respectively, of securities borrowed; \$13.4 billion and \$16.5 billion, respectively, of securities sold under agreements to repurchase; and \$50 million and \$29 million, respectively, of securities loaned and other.

The tables below present as of June 30, 2018, and December 31, 2017 the types of financial assets pledged in securities financing agreements and the remaining contractual maturity of the securities financing agreements.

		Gross liabi	lity balance	
	June 3	0, 2018	December	31, 2017
(in millions)	Securities sold under repurchase agreements	Securities loaned and other ^(a)	Securities sold under repurchase agreements	Securities loaned and other ^(a)
Mortgage-backed securities				
U.S. government agencies	19,277	_	13,100	_
Residential - nonagency	2,337	_	2,972	_
Commercial - nonagency	1,415	_	1,594	_
U.S. Treasury and government agencies	226,381	250	177,581	14
Obligations of U.S. states and municipalities	405	_	1,557	_
Non-U.S. government debt	197,813	1,481	170,196	2,485
Corporate debt securities	14,390	194	14,231	287
Asset-backed securities	3,320	-	3,508	_
Equity securities	14,759	33,595	13,479	24,442
Total	\$ 480,097	\$ 35,520	\$ 398,218	\$ 27,228

	Remaining contractual maturity of the agreements										
June 30, 2018 (in millions)	vernight and continuous	ι	Jp to 30 days		30 - 90 days		Greater than 90 days	Total			
Total securities sold under repurchase agreements	\$ 190,179	\$	176,526	\$	53,653	\$	59,739	480,097			
Total securities loaned and other ^(a)	28,747		869		3,324		2,580	35,520			

	Remaining contractual maturity of the agreements										
December 31, 2017 (in millions)	ernight and ontinuous	Up to 30 days		30 - 90 days	Greater than 90 days	Total					
Total securities sold under repurchase agreements	\$ 166,425	\$ 156,434	\$	41,611	\$ 33,748	\$ 398,218					
Total securities loaned and other(a)	22,876	375	5	2,328	1,649	27,228					

⁽a) Includes securities-for-securities lending transactions of \$6.6 billion and \$9.2 billion at June 30, 2018 and December 31, 2017, respectively, accounted for at fair value, where the Firm is acting as lender. These amounts are presented within other liabilities on the Consolidated balance sheets.

Transfers not qualifying for sale accounting

At June 30, 2018, and December 31, 2017, the Firm held \$1.4 billion and \$1.5 billion respectively, of financial assets for which the rights have been transferred to third parties; however, the transfers did not qualify as a sale in accordance with U.S. GAAP. These transfers have been recognized as collateralized financing transactions. The transferred assets are recorded in trading assets and loans, and the corresponding liabilities are recorded predominantly in short-term borrowings on the Consolidated balance sheets.

Note 11 - Loans

Loan accounting framework

The accounting for a loan depends on management's strategy for the loan, and on whether the loan was creditimpaired at the date of acquisition. The Firm accounts for loans based on the following categories:

- Originated or purchased loans held-for-investment (i.e., "retained"), other than PCI loans
- · Loans held-for-sale
- · Loans at fair value
- · PCI loans held-for-investment

For a detailed discussion of loans, including accounting policies, refer to Note 12 of JPMorgan Chase's 2017 Annual Report. Refer to Note 3 of this Form 10-Q for further information on the Firm's elections of fair value accounting under the fair value option. Refer to Note 2 of this Form 10-Q for information on loans carried at fair value and classified as trading assets.

Loan portfolio

The Firm's loan portfolio is divided into three portfolio segments, which are the same segments used by the Firm to determine the allowance for loan losses: Consumer, excluding credit card; Credit card; and Wholesale. Within each portfolio segment the Firm monitors and assesses the credit risk in the following classes of loans, based on the risk characteristics of each loan class.

Consumer, excluding credit card ^(a)
Residential real estate - excluding PCI Residential mortgage ^(b) Home equity ^(c)
Other consumer loans ^(d) • Auto • Consumer & Business Banking ^(e) Residential real estate - PCI • Home equity • Prime mortgage • Subprime mortgage • Option ARMs
(a) Includes loans held in CCB, prime mortgage

Credit card
• Credit card loans

Wholesale ^(f)
Commercial and industrial Real estate Financial institutions Government agencies Other ^(g)

- (a) Includes loans held in CCB, prime mortgage and home equity loans held in AWM and prime mortgage loans held in Corporate.
- (b) Predominantly includes prime (including option ARMs) and subprime loans.
- (c) Includes senior and junior lien home equity loans.
- (d) Includes certain business banking and auto dealer risk-rated loans that apply the wholesale methodology for determining the allowance for loan losses; these loans are managed by CCB, and therefore, for consistency in presentation, are included with the other consumer loan classes.
- (e) Predominantly includes Business Banking loans.
- (f) Includes loans held in CIB, CB, AWM and Corporate. Excludes prime mortgage and home equity loans held in AWM and prime mortgage loans held in Corporate. Classes are internally defined and may not align with regulatory definitions.
- (g) Includes loans to: individuals (predominantly Wealth Management clients within AWM), SPEs, and private education and civic organizations. For more information on SPEs, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

The following tables summarize the Firm's loan balances by portfolio segment.

June 30, 2018	Consui	mer, excluding					
(in millions)		edit card	Cre	edit card ^(a)	V	/holesale	Total
Retained	\$	374,587	\$	145,221	\$	420,632	\$ 940,440 ^(b)
Held-for-sale		110		34		4,754	4,898
At fair value		_		_		3,076	3,076
Total	\$	374,697	\$	145,255	\$	428,462	\$ 948,414

December 31, 2017	(onsumer, excluding					
(in millions)		credit card	Cr	edit card ^(a)	١	Wholesale	Total
Retained	\$	372,553	\$	149,387	\$	402,898	\$ 924,838 ^(b)
Held-for-sale		128		124		3,099	3,351
At fair value		_		_		2,508	2,508
Total	\$	372,681	\$	149,511	\$	408,505	\$ 930,697

- (a) Includes accrued interest and fees net of an allowance for the uncollectible portion of accrued interest and fee income.
- (b) Loans (other than PCI loans and loans for which the fair value option has been elected) are presented net of unamortized discounts and premiums, and net deferred loan fees or costs. These amounts were not material as of June 30, 2018, and December 31, 2017.

The following tables provide information about the carrying value of retained loans purchased, sold and reclassified to held-for-sale during the periods indicated. Reclassifications of loans to held-for sale are non-cash transactions. The Firm manages its exposure to credit risk on an ongoing basis. Selling loans is one way that the Firm reduces its credit exposures. Loans that were reclassified to held-for-sale and sold in a subsequent period are excluded from the sales line of this table.

				2018						2017		
Three months ended June 30, (in millions)	Consume excludin credit car	g	Cre ca		Wh	nolesale	Total	Consumer, excluding credit card	Credi	t card	Wholesale	Total
Purchases	\$ 532	(a)(b)	\$	_	\$	532	\$ 1,064	\$ 626 ^{(a)(b)}	\$	_	\$ 594	\$ 1,220
Sales	2,391			_		4,943	7,334	763		_	2,377	3,140
Retained loans reclassified to held-for-sale	_			_		392	392	31		_	307	338

			2	018						2017			
Six months ended June 30, (in millions)	Consume excludin credit ca	g	Cred card		Wholes	ale	Total	Consumer, excluding credit card	Cre	dit card	Whole	sale	Total
Purchases	\$ 1,603	(a)(b)	\$	_	\$ 1,0	30	\$ 3,233	\$ 1,566 (a)(b)	\$	_	\$	878	\$ 2,444
Sales	2,872			_	8,0	32	11,504	1,353		-	4,	824	6,177
Retained loans reclassified to held-for-sale	36			_	1,	:60	1,296	6,340 (c)		_		768	7,108

⁽a) Purchases predominantly represent the Firm's voluntary repurchase of certain delinquent loans from loan pools as permitted by Government National Mortgage Association ("Ginnie Mae") guidelines. The Firm typically elects to repurchase these delinquent loans as it continues to service them and/or manage the foreclosure process in accordance with applicable requirements of Ginnie Mae, FHA, RHS, and/or VA.

Gains and losses on sales of loans

Gains and losses on sales of loans (including adjustments to record loans held-for-sale at the lower of cost or fair value) recognized in other income were not material to the Firm for the three and six months ended June 30, 2018 and 2017. In addition, the sale of loans may result in write downs, recoveries or changes in the allowance recognized in the provision for credit losses.

Consumer, excluding credit card loan portfolio

Consumer loans, excluding credit card loans, consist primarily of residential mortgages, home equity loans and lines of credit, auto loans and consumer and business banking loans, with a focus on serving the prime consumer credit market. The portfolio also includes home equity loans secured by junior liens, prime mortgage loans with an interest-only payment period, and certain payment-option loans that may result in negative amortization.

The following table provides information about retained consumer loans, excluding credit card, by class. In 2017, the Firm sold its student loan portfolio.

(in millions)		June 30,	Dec	cember 31,
(III IIIIIIIIIII)		2018		2017
Residential real estate - excluding PO	CI			
Residential mortgage	\$	225,864	\$	216,496
Home equity		30,460		33,450
Other consumer loans				
Auto		65,014		66,242
Consumer & Business Banking		26,272		25,789
Residential real estate - PCI				
Home equity		9,849		10,799
Prime mortgage		5,437		6,479
Subprime mortgage		2,249		2,609
Option ARMs		9,442		10,689
Total retained loans	\$	374,587	\$	372,553

For further information on consumer credit quality indicators, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

⁽b) Excludes purchases of retained loans sourced through the correspondent origination channel and underwritten in accordance with the Firm's standards. Such purchases were \$5.3 billion and \$5.9 billion for the three months ended June 30, 2018 and 2017, respectively, and \$8.9 billion and \$11.3 billion for the six months ended June 30, 2018 and 2017, respectively.

⁽c) Includes the Firm's student loan portfolio which was sold in 2017.

Residential real estate - excluding PCI loans

The following table provides information by class for residential real estate - excluding retained PCI loans.

Residential real estate - excluding PCI loans

	Reside	ntial	l mo	rtgage	Home	e eqi	uity			dential real ccluding PCI
(in millions, except ratios)	Jun 30 201		[Dec 31, 2017	Jun 30, 2018		Dec 31, 2017		Jun 30, 2018	Dec 31, 2017
Loan delinquency ^(a)										
Current	\$ 219,73	35	\$2	08,713	\$ 29,664	\$	32,391	\$ 2	249,399	\$241,104
30-149 days past due	2,94	18		4,234	457		671		3,405	4,905
150 or more days past due	3,18	31		3,549	339		388		3,520	3,937
Total retained loans	\$ 225,86	54	\$2	16,496	\$ 30,460	\$	33,450	\$ 2	256,324	\$ 249,946
% of 30+ days past due to total retained loans(b)	0.5	54%		0.77%	2.619	6	3.17%		0.79%	1.099
90 or more days past due and government guaranteed(c)	\$ 3,17	79	\$	4,172	\$ _	\$	_	\$	3,179	\$ 4,172
Nonaccrual loans	2,10)1		2,175	1,481		1,610		3,582	3,785
Current estimated LTV ratios(d)(e)										
Greater than 125% and refreshed FICO scores:										
Equal to or greater than 660	\$ 2	26	\$	37	\$ 7	\$	10	\$	33	\$ 47
Less than 660	1	l6		19	2		3		18	22
101% to 125% and refreshed FICO scores:										
Equal to or greater than 660	2	24		36	165		296		189	332
Less than 660	6	51		88	51		95		112	183
80% to 100% and refreshed FICO scores:										
Equal to or greater than 660	3,32	23		4,369	1,180		1,676		4,503	6,045
Less than 660	31	l6		483	392		569		708	1,052
Less than 80% and refreshed FICO scores:										
Equal to or greater than 660	206,15	59	1	94,758	23,607		25,262	2	229,766	220,020
Less than 660	6,60)5		6,952	3,604		3,850		10,209	10,802
No FICO/LTV available	1,25	55		1,259	1,452		1,689		2,707	2,948
U.S. government-guaranteed	8,07	79		8,495	-		_		8,079	8,495
Total retained loans	\$ 225,86	54	\$2	16,496	\$ 30,460	\$	33,450	\$ 2	256,324	\$ 249,946
Geographic region										
California	\$ 72,20)7	\$	68,855	\$ 6,028	\$	6,582	\$	78,235	\$ 75,437
New York	28,52	23		27,473	6,257		6,866		34,780	34,339
Illinois	14,97	77		14,501	2,290		2,521		17,267	17,022
Texas	13,43	30		12,508	1,895		2,021		15,325	14,529
Florida	10,19	96		9,598	1,669		1,847		11,865	11,445
New Jersey	7,30)5		7,142	1,768		1,957		9,073	9,099
Washington	7,63	35		6,962	938		1,026		8,573	7,988
Colorado	7,83	34		7,335	552		632		8,386	7,967
Massachusetts	6,36	50		6,323	263		295		6,623	6,618
Arizona	4,39	7		4,109	1,273		1,439		5,670	5,548
All other ^(f)	53,00	00		51,690	7,527		8,264		60,527	59,954
Total retained loans	\$ 225,86	54	\$2	16,496	\$ 30,460	\$	33,450	\$ 2	256,324	\$ 249,946

⁽a) Individual delinquency classifications include mortgage loans insured by U.S. government agencies as follows: current included \$3.2 billion and \$2.4 billion; 30-149 days past due included \$2.3 billion and \$3.2 billion; and 150 or more days past due included \$2.6 billion and \$2.9 billion at June 30, 2018, and December 31, 2017, respectively.

⁽b) At June 30, 2018, and December 31, 2017, residential mortgage loans excluded mortgage loans insured by U.S. government agencies of \$4.9 billion and \$6.1 billion, respectively, that are 30 or more days past due. These amounts have been excluded based upon the government guarantee.

⁽c) These balances, which are 90 days or more past due, were excluded from nonaccrual loans as the loans are guaranteed by U.S government agencies. Typically the principal balance of the loans is insured and interest is guaranteed at a specified reimbursement rate subject to meeting agreed-upon servicing guidelines. At June 30, 2018, and December 31, 2017, these balances included \$1.3 billion and \$1.5 billion, respectively, of loans that are no longer accruing interest based on the agreed-upon servicing guidelines. For the remaining balance, interest is being accrued at the guaranteed reimbursement rate. There were no loans that were not guaranteed by U.S. government agencies that are 90 or more days past due and still accruing interest at June 30, 2018, and December 31, 2017.

⁽d) Represents the aggregate unpaid principal balance of loans divided by the estimated current property value. Current property values are estimated, at a minimum, quarterly, based on home valuation models using nationally recognized home price index valuation estimates incorporating actual data to the extent available and forecasted data where actual data is not available. These property values do not represent actual appraised loan level collateral values; as such, the resulting ratios are necessarily imprecise and should be viewed as estimates. Current estimated combined LTV for junior lien home equity loans considers all available lien positions, as well as unused lines, related to the property.

⁽e) Refreshed FICO scores represent each borrower's most recent credit score, which is obtained by the Firm on at least a quarterly basis.

⁽f) At June 30, 2018, and December 31, 2017, included mortgage loans insured by U.S. government agencies of \$8.1 billion and \$8.5 billion, respectively.

Approximately 37% of the home equity portfolio are senior lien loans; the remaining balance are junior lien HELOANs or HELOCs. The following table represents the Firm's delinquency statistics for junior lien home equity loans and lines of credit as of June 30, 2018, and December 31, 2017.

	Total	loa	เทร	Total 30 delinquen	
(in millions, except ratios)	Jun 30, 2018		Dec 31, 2017	Jun 30, 2018	Dec 31, 2017
HELOCs:(a)					
Within the revolving period ^(b)	\$ 5,455	\$	6,363	0.26%	0.50%
Beyond the revolving period	12,631		13,532	2.72	3.56
HELOANS	1,190		1,371	2.77	3.50
Total	\$ 19,276	\$	21,266	2.03%	2.64%

- (a) These HELOCs are predominantly revolving loans for a 10-year period, after which time the HELOC converts to a loan with a 20-year amortization period, but also include HELOCs that allow interest-only payments beyond the revolving period.
- (b) The Firm manages the risk of HELOCs during their revolving period by closing or reducing the undrawn line to the extent permitted by law when borrowers are experiencing financial difficulty.

HELOCs beyond the revolving period and HELOANs have higher delinquency rates than HELOCs within the revolving period. That is primarily because the fully-amortizing payment that is generally required for those products is higher than the minimum payment options available for HELOCs within the revolving period. The higher delinquency rates associated with amortizing HELOCs and HELOANs are factored into the Firm's allowance for loan losses.

Impaired loans

The table below sets forth information about the Firm's residential real estate impaired loans, excluding PCI loans. These loans are considered to be impaired as they have been modified in a TDR. All impaired loans are evaluated for an asset-specific allowance as described in Note 13 of JPMorgan Chase's 2017 Annual Report.

	Residential	mort	tgage	Home equi	ity	To	tal residenti - excludi	
(in millions)	Jun 30, 2018		Dec 31, 2017	Jun 30, 2018	Dec 31, 2017		Jun 30, 2018	Dec 31, 2017
Impaired loans				"				
With an allowance	\$ 3,816	\$	4,407	\$ 1,211 \$	1,236	\$	5,027	\$ 5,643
Without an allowance ^(a)	1,208		1,213	881	882		2,089	2,095
Total impaired loans ^{(b)(c)}	\$ 5,024	\$	5,620	\$ 2,092 \$	2,118	\$	7,116	\$ 7,738
Allowance for loan losses related to impaired loans	\$ 94	\$	62	\$ 62 \$	111	\$	156	\$ 173
Unpaid principal balance of impaired loans(d)	6,870		7,741	3,604	3,701		10,474	11,442
Impaired loans on nonaccrual status ^(e)	1,730		1,743	1,041	1,032		2,771	2,775

- (a) Represents collateral-dependent residential real estate loans that are charged off to the fair value of the underlying collateral less cost to sell. The Firm reports, in accordance with regulatory guidance, residential real estate loans that have been discharged under Chapter 7 bankruptcy and not reaffirmed by the borrower ("Chapter 7 loans") as collateral-dependent nonaccrual TDRs, regardless of their delinquency status. At June 30, 2018, Chapter 7 residential real estate loans included approximately 13% of residential mortgages and 9% of home equity that were 30 days or more past due.
- (b) At June 30, 2018, and December 31, 2017, \$4.3 billion and \$3.8 billion, respectively, of loans modified subsequent to repurchase from Ginnie Mae in accordance with the standards of the appropriate government agency (i.e., FHA, VA, RHS) are not included in the table above. When such loans perform subsequent to modification in accordance with Ginnie Mae guidelines, they are generally sold back into Ginnie Mae loan pools. Modified loans that do not re-perform become subject to foreclosure.
- (c) Predominantly all residential real estate impaired loans, excluding PCI loans, are in the U.S.
- (d) Represents the contractual amount of principal owed at June 30, 2018, and December 31, 2017. The unpaid principal balance differs from the impaired loan balances due to various factors including charge-offs, net deferred loan fees or costs, and unamortized discounts or premiums on purchased loans.
- (e) At both June 30, 2018 and December 31, 2017, nonaccrual loans included \$2.2 billion of TDRs for which the borrowers were less than 90 days past due. For additional information about loans modified in a TDR that are on nonaccrual status refer to the Loan accounting framework in Note 12 of JPMorgan Chase's 2017 Annual Report.

The following tables present average impaired loans and the related interest income reported by the Firm.

Three months ended June 30,	Average impaire	ed loans	Interest ii impaired		Interest income on impaired loans on a cash basis ^(a)				
(in millions)	2018	2017	2018	2017	2018		2017		
Residential mortgage	\$ 5,254 \$	5,865	\$ 66	\$ 68	\$ 20	\$	14		
Home equity	2,087	2,241	33	30	21		18		
Total residential real estate - excluding PCI	\$ 7,341 \$	8,106	\$ 99	\$ 98	\$ 41	\$	32		

Six months ended June 30.	Average impaired loans				Interest i		Interest income on impaired loans on a cash basis ^(a)				
(in millions)	2018		2017		2018	2017		2018	2017		
Residential mortgage	\$ 5,431	\$	5,921	\$	136	\$ 141	\$	39 \$	33		
Home equity	2,105		2,245		65	61		42	38		
Total residential real estate - excluding PCI	\$ 7,536	\$	8,166	\$	201	\$ 202	\$	81 \$	71		

⁽a) Generally, interest income on loans modified in TDRs is recognized on a cash basis until the borrower has made a minimum of six payments under the new terms, unless the loan is deemed to be collateral-dependent.

Loan modifications

Modifications of residential real estate loans, excluding PCI loans, are generally accounted for and reported as TDRs. There were no additional commitments to lend to borrowers whose residential real estate loans, excluding PCI loans, have been modified in TDRs.

The following table presents new TDRs reported by the Firm.

	Three i nded J		е	Six m nded J	
(in millions)	2018	2017		2018	2017
Residential mortgage	\$ 100	\$ 96	\$	247	\$ 168
Home equity	83	69		186	150
Total residential real estate - excluding PCI	\$ 183	\$ 165	\$	433	\$ 318

Nature and extent of modifications

The U.S. Treasury's Making Home Affordable programs, as well as the Firm's proprietary modification programs, generally provide various concessions to financially troubled borrowers including, but not limited to, interest rate reductions, term or payment extensions and deferral of principal and/or interest payments that would otherwise have been required under the terms of the original agreement.

The following tables provide information about how residential real estate loans, excluding PCI loans, were modified under the Firm's loss mitigation programs described above during the periods presented. These tables exclude Chapter 7 loans where the sole concession granted is the discharge of debt.

	Residential mo	iity	Total reside real estat excluding	e -		
Three months ended June 30,	2018	2017	2018	2017	2018	2017
Number of loans approved for a trial modification	977	390	849	565	1,826	955
Number of loans permanently modified	686	659	1,268	1,583	1,954	2,242
Concession granted:(a)						
Interest rate reduction	37%	69%	53%	59%	48%	62%
Term or payment extension	46	82	59	78	55	79
Principal and/or interest deferred	50	20	27	9	35	13
Principal forgiveness	8	18	10	9	9	12
Other ^(b)	32	23	57	15	48	18

	Residential m	ortgage	Home equ	ıity	Total reside real estat excluding	e -		
Six months ended June 30,	2018 2017		2018 2017		2018	2017	2018	2017
Number of loans approved for a trial modification	1,276	846	1,309	1,308	2,585	2,154		
Number of loans permanently modified	1,655	1,442	3,066	2,800	4,721	4,242		
Concession granted:(a)								
Interest rate reduction	27%	76%	51%	71%	42%	72%		
Term or payment extension	35	86	54	84	48	84		
Principal and/or interest deferred	54	14	26	13	36	14		
Principal forgiveness	7	19	7	9	7	12		
Other ^(b)	42	27	58	13	53	18		

⁽a) Represents concessions granted in permanent modifications as a percentage of the number of loans permanently modified. The sum of the percentages exceeds 100% because predominantly all of the modifications include more than one type of concession. Concessions offered on trial modifications are generally consistent with those granted on permanent modifications.

⁽b) Includes variable interest rate to fixed interest rate modifications for the three and six months ended June 30, 2018 and 2017. Also includes forbearances that meet the definition of a TDR for the three and six months ended June 30, 2018. Forbearances suspend or reduce monthly payments for a specific period of time to address a temporary hardship.

Financial effects of modifications and redefaults

The following tables provide information about the financial effects of the various concessions granted in modifications of residential real estate loans, excluding PCI loans, under the loss mitigation programs described above and about redefaults of certain loans modified in TDRs for the periods presented. The following tables present only the financial effects of permanent modifications and does not include temporary concessions offered through trial modifications. These tables also exclude Chapter 7 loans where the sole concession granted is the discharge of debt.

Three months ended June 30,		tesidential mo	ortgage	Home equity	/	Total residential real estate - excluding PCI		
(in millions, except weighted-average data)		2018	2017	2018	2017		2018	2017
Weighted-average interest rate of loans with interest rate reductions - before TDR		4.97%	5.13%	5.21%	5.04%		5.10%	5.09%
Weighted-average interest rate of loans with interest rate reductions - after TDR		3.15	3.12	3.31	2.39		3.24	2.79
Weighted-average remaining contractual term (in years) of loans with term or payment extensions - before TDR		25	23	18	26		23	25
Weighted-average remaining contractual term (in years) of loans with term or payment extensions - after TDR		37	37	37	38		38	38
Charge-offs recognized upon permanent modification	\$	- \$	-	\$ - \$	_	\$	- \$	_
Principal deferred		4	4	3	2		7	6
Principal forgiven		3	6	2	3		5	9
Balance of loans that redefaulted within one year of permanent modification ^(a)	\$	25 \$	30	\$ 19 \$	12	\$	44 \$	42

Six months ended June 30.	ĺ	Residentia	l mor	tgage	Home	equit	ty	Total residential real estate - excluding PCI			
(in millions, except weighted-average)		2018		2017	2018		2017		2018		2017
Weighted-average interest rate of loans with interest rate reductions - before TDR		5.03%)	5.25%	5.16%	D	4.82%		5.11%		5.06%
Weighted-average interest rate of loans with interest rate reductions – after TDR		3.28		3.00	3.16		2.42		3.21		2.74
Weighted-average remaining contractual term (in years) of loans with term or payment extensions - before TDR		25		24	19		23		22		24
Weighted-average remaining contractual term (in years) of loans with term or payment extensions - after TDR		37		38	39		39		38		38
Charge-offs recognized upon permanent modification	\$	_	\$	1	\$ 1	\$	1	\$	1	\$	2
Principal deferred		10		7	5		7		15		14
Principal forgiven		6		11	4		5		10		16
Balance of loans that redefaulted within one year of permanent modification ^(a)	\$	45	\$	58	\$ 33	\$	21	\$	78	\$	79

⁽a) Represents loans permanently modified in TDRs that experienced a payment default in the periods presented, and for which the payment default occurred within one year of the modification. The dollar amounts presented represent the balance of such loans at the end of the reporting period in which such loans defaulted. For residential real estate loans modified in TDRs, payment default is deemed to occur when the loan becomes two contractual payments past due. In the event that a modified loan redefaults, it is probable that the loan will ultimately be liquidated through foreclosure or another similar type of liquidation transaction. Redefaults of loans modified within the last 12 months may not be representative of ultimate redefault levels.

At June 30, 2018, the weighted-average estimated remaining lives of residential real estate loans, excluding PCI loans, permanently modified in TDRs were 9 years for residential mortgage and 8 years for home equity. The estimated remaining lives of these loans reflect estimated prepayments, both voluntary and involuntary (i.e., foreclosures and other forced liquidations).

Active and suspended foreclosure

At June 30, 2018, and December 31, 2017, the Firm had non-PCI residential real estate loans, excluding those insured by U.S. government agencies, with a carrying value of \$763 million and \$787 million, respectively, that were not included in REO, but were in the process of active or suspended foreclosure.

Other consumer loans

The table below provides information for other consumer retained loan classes, including auto and business banking loans.

		Auto		Consu Business			Total other consu			nsumer
(in millions, except ratios)		30, 018	Dec 31, 2017	Jun 30, 2018		Dec 31, 2017		Jun 30, 2018		Dec 31, 2017
Loan delinquency		010	2017	2010		2017		2010		2017
Current	\$ 64,5	16 \$	65,651	\$ 25,964	\$	25,454	\$	90,480	\$	91,105
30-119 days past due	4	87	584	197		213		684		797
120 or more days past due		11	7	111		122		122		129
Total retained loans	\$ 65,0	14 \$	66,242	\$ 26,272	\$	25,789	\$	91,286	\$	92,031
% of 30+ days past due to total retained loans	0	77%	0.89%	1.17%	,	1.30%		0.88%		1.01%
Nonaccrual loans ^(a)	1	24	141	273		283		397		424
Geographic region										
California	\$ 8,5	12 \$	8,445	\$ 5,299	\$	5,032	\$	13,811	\$	13,477
Texas	6,6	75	7,013	3,014		2,916		9,689		9,929
New York	3,9	01	4,023	4,222		4,195		8,123		8,218
Illinois	3,7	93	3,916	2,066		2,017		5,859		5,933
Florida	3,3	89	3,350	1,428		1,424		4,817		4,774
Arizona	2,1	03	2,221	1,422		1,383		3,525		3,604
Ohio	2,0	44	2,105	1,356		1,380		3,400		3,485
Michigan	1,4	17	1,418	1,304		1,357		2,721		2,775
New Jersey	1,9	78	2,044	738		721		2,716		2,765
Louisiana	1,6	02	1,656	885		849		2,487		2,505
All other	29,6	00	30,051	4,538		4,515		34,138		34,566
Total retained loans	\$ 65,0	14 \$	66,242	\$ 26,272	\$	25,789	\$	91,286	\$	92,031
Loans by risk ratings ^(b)										
Noncriticized	\$ 15,1	50 \$	15,604	\$ 18,387	\$	17,938	\$	33,537	\$	33,542
Criticized performing	2	61	93	759		791		1,020		884
Criticized nonaccrual		7	9	204		213		211		222

⁽a) There were no loans that were 90 or more days past due and still accruing interest at June 30, 2018, and December 31, 2017.

⁽b) For risk-rated business banking and auto loans, the primary credit quality indicator is the risk rating of the loan, including whether the loans are considered to be criticized and/or nonaccrual.

Other consumer impaired loans and loan modifications

The table below sets forth information about the Firm's other consumer impaired loans, including risk-rated business banking and auto loans that have been placed on nonaccrual status, and loans that have been modified in TDRs.

(in millions)	June 30, 2018	De	ecember 31, 2017
Impaired loans			
With an allowance	\$ 245	\$	272
Without an allowance(a)	26		26
Total impaired loans(b)(c)	\$ 271	\$	298
Allowance for loan losses related to impaired loans	\$ 70	\$	73
Unpaid principal balance of impaired loans ^(d)	373		402
Impaired loans on nonaccrual status	246		268

- (a) When discounted cash flows, collateral value or market price equals or exceeds the recorded investment in the loan, the loan does not require an allowance. This typically occurs when the impaired loans have been partially charged off and/or there have been interest payments received and applied to the loan balance.
- (b) Predominantly all other consumer impaired loans are in the U.S.
- (c) Other consumer average impaired loans were \$277 million and \$381 million for the three months ended June 30, 2018 and 2017, respectively, and \$287 million and \$501 million for the six months ended June 30, 2018 and 2017, respectively. The related interest income on impaired loans, including those on a cash basis, was not material for the three and six months ended June 30, 2018 and 2017.
- (d) Represents the contractual amount of principal owed at June 30, 2018, and December 31, 2017. The unpaid principal balance differs from the impaired loan balances due to various factors, including charge-offs, interest payments received and applied to the principal balance, net deferred loan fees or costs, and unamortized discounts or premiums on purchased loans.

Loan modifications

Certain other consumer loan modifications are considered to be TDRs as they provide various concessions to borrowers who are experiencing financial difficulty. All of these TDRs are reported as impaired loans. Refer to Note 12 of JPMorgan Chase's 2017 Annual Report for further information on other consumer loans modified in TDRs.

At June 30, 2018 and December 31, 2017 other consumer loans modified in TDRs were \$91 million and \$102 million, respectively. New TDRs, as well as the impact of these modifications were not material to the Firm for the three and six months ended June 30, 2018 and 2017. Additional commitments to lend to borrowers whose loans have been modified in TDRs as of June 30, 2018 and December 31, 2017 were not material. TDRs on nonaccrual status were \$66 million and \$72 million at June 30, 2018 and December 31, 2017, respectively.

Purchased credit-impaired loans

For a detailed discussion of PCI loans, including the related accounting policies, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

Residential real estate - PCI loans

The table below sets forth information about the Firm's consumer, excluding credit card, PCI loans.

	Home	equity	Prime n	nortgage	Subprime	e mortgage	Optio	n ARMs	Tota	al PCI
(in millions, except ratios)	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018		Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017
Carrying value ^(a)	\$ 9,849	\$10,799	\$ 5,437	\$ 6,479	\$ 2,249	\$ 2,609	\$ 9,442	\$10,689	\$26,977	\$30,576
Loan delinquency (based on unpaid principa	l balance)									
Current	\$ 9,465	\$10,272	\$ 4,893	\$ 5,839	\$ 2,326	\$ 2,640	\$ 8,509	\$ 9,662	\$25,193	\$28,413
30-149 days past due	248	356	271	336	295	381	446	547	1,260	1,620
150 or more days past due	310	392	296	327	163	176	585	689	1,354	1,584
Total loans	\$10,023	\$11,020	\$ 5,460	\$ 6,502	\$ 2,784	\$ 3,197	\$ 9,540	\$10,898	\$27,807	\$31,617
% of 30+ days past due to total loans	5.57%	6.79%	10.38%	10.20%	16.45%	6 17.42%	10.81%	6 11.34%	9.40%	10.13%
Current estimated LTV ratios (based on unpa	id principal	balance)(b)(c)								
Greater than 125% and refreshed FICO scores:										
Equal to or greater than 660	\$ 22	\$ 33	\$ 2	\$ 4	\$ 1	\$ 2	\$ 4	\$ 6	\$ 29	\$ 45
Less than 660	14	21	12	16	13	20	8	9	47	66
101% to 125% and refreshed FICO scores:										
Equal to or greater than 660	176	274	10	16	10	20	29	43	225	353
Less than 660	86	132	26	42	42	75	55	71	209	320
80% to 100% and refreshed FICO scores:										
Equal to or greater than 660	928	1,195	119	221	80	119	168	316	1,295	1,851
Less than 660	419	559	154	230	213	309	241	371	1,027	1,469
Lower than 80% and refreshed FICO scores:										
Equal to or greater than 660	5,844	6,134	3,022	3,551	824	895	5,613	6,113	15,303	16,693
Less than 660	2,011	2,095	1,827	2,103	1,467	1,608	3,006	3,499	8,311	9,305
No FICO/LTV available	523	577	288	319	134	149	416	470	1,361	1,515
Total unpaid principal balance	\$10,023	\$11,020	\$ 5,460	\$ 6,502	\$ 2,784	\$ 3,197	\$ 9,540	\$10,898	\$27,807	\$31,617
Geographic region (based on unpaid principa	al balance)									
California	\$ 5,954	\$ 6,555	\$ 3,048	\$ 3,716	\$ 679	\$ 797	\$ 5,415	\$ 6,225	\$15,096	\$17,293
Florida	1,053	1,137	374	428	264	296	794	878	2,485	2,739
New York	563	607	396	457	292	330	561	628	1,812	2,022
Washington	471	532	112	135	51	61	201	238	835	966
Illinois	252	273	176	200	142	161	221	249	791	883
New Jersey	225	242	157	178	97	110	293	336	772	866
Massachusetts	71	79	133	149	84	98	278	307	566	633
Maryland	53	57	109	129	113	132	199	232	474	550
Arizona	184	203	87	106	52	60	137	156	460	525
Virginia	59	66	100	123	43	51	245	280	447	520
All other	1,138	1,269	768	881	967	1,101	1,196	1,369	4,069	4,620
Total unpaid principal balance	\$10,023	\$11,020	\$ 5,460	\$ 6,502	\$ 2,784	\$ 3,197	\$ 9,540	\$10,898	\$27,807	\$31,617

⁽a) Carrying value includes the effect of fair value adjustments that were applied to the consumer PCI portfolio at the date of acquisition.

⁽b) Represents the aggregate unpaid principal balance of loans divided by the estimated current property value. Current property values are estimated, at a minimum, quarterly, based on home valuation models using nationally recognized home price index valuation estimates incorporating actual data to the extent available and forecasted data where actual data is not available. These property values do not represent actual appraised loan level collateral values; as such, the resulting ratios are necessarily imprecise and should be viewed as estimates. Current estimated combined LTV for junior lien home equity loans considers all available lien positions, as well as unused lines, related to the property.

⁽c) Refreshed FICO scores represent each borrower's most recent credit score, which is obtained by the Firm on at least a quarterly basis.

Approximately 25% of the PCI home equity portfolio are senior lien loans; the remaining balance are junior lien HELOANs or HELOCs. The following table represents the Firm's delinquency statistics for PCI junior lien home equity loans and lines of credit based on the unpaid principal balance as of June 30, 2018, and December 31, 2017.

	Total	loa	ns	Total 30 delinquen	
(in millions, except ratios)	Jun 30, 2018		Dec 31, 2017	Jun 30, 2018	Dec 31, 2017
HELOCs:(a)					
Within the revolving period ^(b)	\$ 7	\$	51	-%	1.96%
Beyond the revolving period ^(c)	7,175		7,875	3.74	4.63
HELOANS	315		360	3.81	5.28
Total	\$ 7,497	\$	8,286	3.73%	4.65%

- (a) In general, these HELOCs are revolving loans for a 10-year period, after which time the HELOC converts to an interest-only loan with a balloon payment at the end of the loan's term.
- (b) Substantially all undrawn HELOCs within the revolving period have been closed.
- (c) Includes loans modified into fixed rate amortizing loans.

The table below sets forth the accretable yield activity for the Firm's PCI consumer loans for the three and six months ended June 30, 2018 and 2017, and represents the Firm's estimate of gross interest income expected to be earned over the remaining life of the PCI loan portfolios. The table excludes the cost to fund the PCI portfolios, and therefore the accretable yield does not represent net interest income expected to be earned on these portfolios.

		Tota	l PCI	
		nths ended 2 30,	Six mont June	
(in millions, except ratios)	2018 2017		2018	2017
Beginning balance	\$10,250	\$13,122	\$11,159	\$11,768
Accretion into interest income	(327)	(357)	(655)	(716)
Changes in interest rates on variable-rate loans	(548)	51	(268)	167
Other changes in expected cash flows ^(a)	(653)	(177)	(1,514)	1,420
Balance at June 30	\$ 8,722	\$12,639	\$ 8,722	\$12,639
Accretable yield percentage	4.93%	4.55%	4.86%	4.45%

⁽a) Other changes in expected cash flows may vary from period to period as the Firm continues to refine its cash flow model, for example cash flows expected to be collected due to the impact of modifications and changes in prepayment assumptions.

Active and suspended foreclosure

At June 30, 2018, and December 31, 2017, the Firm had PCI residential real estate loans with an unpaid principal balance of \$1.2 billion and 1.3 billion, respectively, that were not included in REO, but were in the process of active or suspended foreclosure.

Credit card loan portfolio

For further information on the credit card loan portfolio, including credit quality indicators, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

The table below sets forth information about the Firm's credit card loans.

(in millions, except ratios)	June 30, 2018		December 31, 2017
Loan delinquency			
Current and less than 30 days past due and still accruing	\$ 142,822	\$	146,704
30-89 days past due and still accruing	1,171		1,305
90 or more days past due and still accruing	1,228		1,378
Total retained credit card loans	\$ 145,221	\$	149,387
Loan delinquency ratios			
% of 30+ days past due to total retained loans	1.65%	,	1.80%
% of 90+ days past due to total retained loans	0.85		0.92
Credit card loans by geographic region			
California	\$ 21,716	\$	22,245
Texas	13,962		14,200
New York	12,664		13,021
Florida	8,855		9,138
Illinois	8,358		8,585
New Jersey	6,255		6,506
Ohio	4,795		4,997
Pennsylvania	4,661		4,883
Colorado	4,012		4,006
Michigan	3,664		3,826
All other	56,279		57,980
Total retained credit card loans	\$ 145,221	\$	149,387
Percentage of portfolio based on carrying value with estimated refreshed FICO scores			
Equal to or greater than 660	84.0%)	84.0%
Less than 660	14.6		14.6
No FICO available	1.4		1.4

Credit card impaired loans and loan modifications

For a detailed discussion of impaired credit card loans, including credit card loan modifications, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

The table below sets forth information about the Firm's impaired credit card loans. All of these loans are considered to be impaired as they have been modified in TDRs.

(in millions)	June 30, 2018	D	ecember 31, 2017
Impaired credit card loans with an allowance ^{(a)(b)}			
Credit card loans with modified payment terms ^(c)	\$ 1,191	\$	1,135
Modified credit card loans that have reverted to pre-modification			
payment terms ^(d)	61		80
Total impaired credit card loans(e)	\$ 1,252	\$	1,215
Allowance for loan losses related to impaired credit card loans	\$ 402	\$	383

- (a) The carrying value and the unpaid principal balance are the same for credit card impaired loans.
- (b) There were no impaired loans without an allowance.
- (c) Represents credit card loans outstanding to borrowers enrolled in a credit card modification program as of the date presented.
- (d) Represents credit card loans that were modified in TDRs but that have subsequently reverted back to the loans' pre-modification payment terms. At June 30, 2018, and December 31, 2017, \$29 million and \$43 million, respectively, of loans have reverted back to the pre-modification payment terms of the loans due to noncompliance with the terms of the modified loans. The remaining \$32 million and \$37 million at June 30, 2018, and December 31, 2017, respectively, of these loans are to borrowers who have successfully completed a short-term modification program. The Firm continues to report these loans as TDRs since the borrowers' credit lines remain closed.
- (e) Predominantly all impaired credit card loans are in the U.S.

The following table presents average balances of impaired credit card loans and interest income recognized on those loans.

	Three months ended June 30,					ended O,	
(in millions)	2018 2017				20:	18	2017
Average impaired credit card loans	\$	1,244	\$	1,212	\$ 1,2	34 \$	1,220
Interest income on impaired credit card loans		16		15	:	31	29

Loan modifications

The Firm may offer one of a number of loan modification programs to credit card borrowers who are experiencing financial difficulty. Most of these loans have been modified under long-term programs for borrowers who are experiencing financial difficulties. Modifications under long-term programs involve placing the customer on a fixed payment plan, generally for 60 months. Substantially all modifications are considered to be TDRs. New enrollments in these loan modification programs were \$202 million and \$176 million for the three months ended June 30, 2018 and 2017, respectively, and \$425 million and \$361 million for the six months ended June 30, 2018 and 2017, respectively. For additional information about credit card loan modifications, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

Financial effects of modifications and redefaults

The following table provides information about the financial effects of the concessions granted on credit card loans modified in TDRs and redefaults for the periods presented.

(in millions, except	Three months ended June 30,					Six months ende June 30,				
weighted-average data)		2018 2017				2018		2017		
Weighted-average interest rate of loans - before TDR	1	8.00%		16.55%	1	17.61%)	16.35%		
Weighted-average interest rate of loans - after TDR	!	5.06		4.80		5.13		4.78		
Loans that redefaulted within one year of modification ^(a)	\$	25	\$	24	\$	51	\$	45		

(a) Represents loans modified in TDRs that experienced a payment default in the periods presented, and for which the payment default occurred within one year of the modification. The amounts presented represent the balance of such loans as of the end of the quarter in which they defaulted.

For credit card loans modified in TDRs, payment default is deemed to have occurred when the borrower misses two consecutive contractual payments. A substantial portion of these loans are expected to be charged-off in accordance with the Firm's standard charge-off policy. Based on historical experience, the estimated weighted-average default rate for modified credit card loans was expected to be 32.10% and 31.54% as of June 30, 2018, and December 31, 2017, respectively.

Wholesale loan portfolio

Wholesale loans include loans made to a variety of clients, ranging from large corporate and institutional clients to high-net-worth individuals. The primary credit quality indicator for wholesale loans is the risk rating assigned to

each loan. For further information on these risk ratings, refer to Note 12 and Note 13 of JPMorgan Chase's 2017 Annual Report.

The table below provides information by class of receivable for the retained loans in the Wholesale portfolio segment.

		mercial Idustrial	Real	estate		ncial utions	Governme	ent agencies	Oth	ner ^(d)		otal ed Ioans
(in millions, except ratios)	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017	Jun 30, 2018	Dec 31, 2017
Loans by risk ratings												
Investment-grade	\$ 70,285	\$ 68,071	\$ 98,684	\$ 98,467	\$ 29,585	\$26,791	\$15,332	\$15,140	\$108,219	\$103,212	\$322,105	\$311,681
Noninvestment- grade:												
Noncriticized	50,197	46,558	13,952	14,335	14,907	13,071	166	369	14,087	9,988	93,309	84,321
Criticized performing	3,131	3,983	566	710	134	210	_	-	231	259	4,062	5,162
Criticized nonaccrual	813	1,357	138	136	2	2	_	_	203	239	1,156	1,734
Total noninvestment- grade	54,141	51,898	14,656	15,181	15,043	13,283	166	369	14,521	10,486	98,527	91,217
Total retained loans	\$124,426	\$119,969	\$113,340	\$113,648	\$ 44,628	\$40,074	\$15,498	\$15,509	\$122,740	\$113,698	\$420,632	\$402,898
% of total criticized exposure to total retained loans	3.17%	6 4.45%	0.62%	0.74%	0.30%	0.53%	o –%	ó –%	0.35%	6 0.44%	6 1.24 %	i 1.71%
% of criticized nonaccrual to total retained loans	0.65	1.13	0.12	0.12	-	-	_	-	0.17	0.21	0.27	0.43
Loans by geographic distribution ^(a)												
Total non-U.S.	\$ 30,725	\$ 28,470	\$ 2,668	\$ 3,101	\$ 17,506	\$16,790	\$ 2,966	\$ 2,906	\$ 49,813	\$ 44,112	\$103,678	\$ 95,379
Total U.S.	93,701	91,499	110,672	110,547	27,122	23,284	12,532	12,603	72,927	69,586	316,954	307,519
Total retained loans	\$124,426	\$119,969	\$113,340	\$113,648	\$ 44,628	\$40,074	\$15,498	\$15,509	\$122,740	\$113,698	\$420,632	\$402,898
Loan delinquency ^(b)												
Current and less than 30 days past due and still accruing	\$123,396	\$118,288	\$112,506	\$ 113,258	\$ 44,607	\$40,042	\$15,491	\$15,493	\$121,748	\$112,559	\$417,748	\$399,640
30-89 days past due and still accruing	188	216	675	242	11	15	3	12	788	898	1,665	1,383
90 or more days past due and still accruing ^(c)	29	108	21	12	8	15	4	4	1	2	63	141
Criticized nonaccrual	813	1,357	138	136	2	2	_	_	203	239	1,156	1,734
Total retained loans	\$124,426	\$119,969	\$113,340	\$113,648	\$ 44,628	\$40,074	\$15,498	\$15,509	\$122,740	\$113,698	\$420,632	\$402,898

⁽a) The U.S. and non-U.S. distribution is determined based predominantly on the domicile of the borrower.

⁽b) The credit quality of wholesale loans is assessed primarily through ongoing review and monitoring of an obligor's ability to meet contractual obligations rather than relying on the past due status, which is generally a lagging indicator of credit quality. For a further discussion, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

⁽c) Represents loans that are considered well-collateralized and therefore still accruing interest.

⁽d) Other includes individuals (predominantly Wealth Management clients within AWM), SPEs, and private education and civic organizations. For more information on SPEs, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

The following table presents additional information on the real estate class of loans within the Wholesale portfolio for the periods indicated. For further information on real estate loans, refer to Note 12 of JPMorgan Chase's 2017 Annual Report.

	 Multi	fam	ily	Other co	mm	ercial	Total real e	stat	e Ioans
(in millions, except ratios)	Jun 30, 2018		Dec 31, 2017	Jun 30, 2018		Dec 31, 2017	Jun 30, 2018		Dec 31, 2017
Real estate retained loans	\$ 78,093	\$	77,597	\$ 35,247	\$	36,051	\$ 113,340	\$	113,648
Criticized exposure	437		491	267		355	704		846
% of total criticized exposure to total real estate retained loans	0.56%	•	0.63%	0.76%		0.98%	0.62%		0.74%
Criticized nonaccrual	\$ 53	\$	44	\$ 85	\$	92	\$ 138	\$	136
% of criticized nonaccrual loans to total real estate retained loans	0.07%	.	0.06%	0.24%		0.26%	0.12%		0.12%

Wholesale impaired retained loans and loan modifications

Wholesale impaired retained loans consist of loans that have been placed on nonaccrual status and/or that have been modified in a TDR. All impaired loans are evaluated for an asset-specific allowance as described in Note 13 of JPMorgan Chase's 2017 Annual Report.

The table below sets forth information about the Firm's wholesale impaired loans.

	Comr and in		Real	esta	ite	Fina instit				nmer ncies		Ot	her		To retaine				ıs	
(in millions)	ın 30, 2018	ec 31, 2017	n 30, 018		ec 31, 2017	ın 30, 2018	Dec 31, 2017	un 3 201			c 31, 017	un 30, 2018		ec 31, 2017		un 30, 2018			ec 31, 2017	l
Impaired loans																				-
With an allowance	\$ 773	\$ 1,170	\$ 85	\$	78	\$ 89	\$ 93	\$	-	\$	_	\$ 162	\$	168	\$	1,109		\$	1,509	
Without an allowance(a)	110	228	53		60	_	-		-		_	55		70		218			358	
Total impaired loans	\$ 883	\$ 1,398	\$ 138	\$	138	\$ 89	\$ 93	\$	-	\$	_	\$ 217	\$	238	\$	1,327	(c)	\$	1,867	(c)
Allowance for loan losses related to impaired loans	\$ 250	\$ 404	\$ 16	\$	11	\$ 4	\$ 4	\$	_	\$	-	\$ 48	\$	42	\$	318		\$	461	-
Unpaid principal balance of impaired loans ^(b)	1,067	1,604	205		201	89	94		_		_	428		255		1,789			2,154	_

⁽a) When the discounted cash flows, collateral value or market price equals or exceeds the recorded investment in the loan, the loan does not require an allowance. This typically occurs when the impaired loans have been partially charged-off and/or there have been interest payments received and applied to the loan balance.

The following table presents the Firm's average impaired loans for the periods indicated.

	Th	ree mor June	 	Six months ended June 30,						
(in millions)		2018	2017		2018		2017			
Commercial and industrial	\$	1,106	\$ 1,201	\$	1,224	\$	1,321			
Real estate		142	165		142		179			
Financial institutions		90	15		91		13			
Government agencies		-	_		-		_			
Other		208	274		219		254			
Total ^{(a)(b)}	\$	1,546	\$ 1,655	\$	1,676	\$	1,767			

⁽a) The related interest income on accruing impaired loans and interest income recognized on a cash basis were not material for the three and six months ended June 30, 2018 and 2017.

Certain loan modifications are considered to be TDRs as they provide various concessions to borrowers who are experiencing financial difficulty. All TDRs are reported as impaired loans in the tables above. TDRs were \$865 million and \$614 million as of June 30, 2018, and December 31, 2017, respectively.

⁽b) Represents the contractual amount of principal owed at June 30, 2018, and December 31, 2017. The unpaid principal balance differs from the impaired loan balances due to various factors, including charge-offs; interest payments received and applied to the carrying value; net deferred loan fees or costs; and unamortized discount or premiums on purchased loans.

⁽c) Based upon the domicile of the borrower, largely consists of loans in the U.S.

⁽b) The prior period amounts have been revised to conform with the current period presentation.

Note 12 - Allowance for credit losses

For a detailed discussion of the allowance for credit losses and the related accounting policies, refer to Note 13 of JPMorgan Chase's 2017 Annual Report.

Allowance for credit losses and related information

The table below summarizes information about the allowances for loan losses and lending-related commitments, and includes a breakdown of loans and lending-related commitments by impairment methodology.

				20	18				2017								
Six months ended June 30, (in millions)	6	consumer, excluding redit card	Cre	edit card	,	Wholesale		Total	6	onsumer, excluding redit card	C	redit card	,	Wholesale		Total	
Allowance for loan losses																	
Beginning balance at January 1,	\$	4,579	\$	4,884	\$	4,141	\$	13,604		5,198	\$	4,034	\$	4,544	\$	13,776	
Gross charge-offs		539		2,578		241		3,358		1,105		2,223		99		3,427	
Gross recoveries		(451)	1	(244)		(76)	(771)		(307)		(193)		(69))	(569)	
Net charge-offs		88		2,334		165		2,587		798		2,030		30		2,858	
Write-offs of PCI loans ^(a)		93		_		_		93		46		_		_		46	
Provision for Ioan Iosses		90		2,334		(98)	2,326		448		2,380		(337))	2,491	
Other		_		_		_		_		(2)		_		2		_	
Ending balance at June 30,	\$	4,488	\$	4,884	\$	3,878	\$	13,250	\$	4,800	\$	4,384	\$	4,179	\$	13,363	
Allowance for loan losses by impairment methodology																	
Asset-specific ^(b)	\$	226	\$	402	(c) \$	318	\$	946	\$	296	\$	370	(c) ‡	345	\$	1,011	
Formula-based		2,130		4,482		3,560		10,172		2,239		4,014		3,834		10,087	
PCI		2,132		_		_		2,132		2,265		_		_		2,265	
Total allowance for loan losses	\$	4,488	\$	4,884	\$	3,878	\$	13,250	\$	4,800	\$	4,384	\$	4,179	\$	13,363	
Loans by impairment methodology																	
Asset-specific	\$	7,387	\$	1,252	\$	1,327	\$	9,966	\$	8,340	\$	1,204	\$	1,760	\$	11,304	
Formula-based		340,223	1	143,969		419,302		903,494		323,711		138,831		392,663		855,205	
PCI		26,977		_		3		26,980		33,064		_		3		33,067	
Total retained loans	\$	374,587	\$ 1	145,221	\$	420,632	\$	940,440	\$	365,115	\$	140,035	\$	394,426	\$	899,576	
Impaired collateral-dependent loans																	
Net charge-offs	\$	14	\$	_	\$	_	\$	14	\$	36	\$	_	\$	16	\$	52	
Loans measured at fair value of collateral less cost to sell		2,124		_		300	1	2,424		2,234		_		296		2,530	
Allowance for lending-related commitments																	
Beginning balance at January 1,	\$	33	\$	_	\$	1,035	\$	1,068	\$	26	\$	_	\$	1,052	\$	1,078	
Provision for lending-related commitments	•	_		_		49		49		6		_		33		39	
Other		_		_		_		_		_		_		_		_	
Ending balance at June 30,	\$	33	\$	-	\$	1,084	\$	1,117	\$	32	\$	_	\$	1,085	\$	1,117	
Allowance for lending-related commitments by impairment methodology																	
Asset-specific	\$	_	\$	_	\$	139	\$	139	\$	_	\$	_	\$	211	\$	211	
Formula-based		33		_		945		978		32		_		874		906	
Total allowance for lending-related commitments	\$	33	\$	_	\$	1,084	. \$	1,117	\$	32	\$	_	\$	1,085	\$	1,117	
Lending-related commitments by impairment methodology																	
Asset-specific	\$	_	\$	_	\$	712	\$	712	\$	_	\$	_	\$	750	\$	750	
Formula-based		51,784		592,452	•	401,045		1,045,281		53,872	d)	576,264	,	365,748		995,884	
Total lending-related commitments	\$	51,784	_		\$			1,045,993	\$	53,872	d) ¢	576,264	d	366,498	¢		

⁽a) Write-offs of PCI loans are recorded against the allowance for loan losses when actual losses for a pool exceed estimated losses that were recorded as purchase accounting adjustments at the time of acquisition. A write-off of a PCI loan is recognized when the underlying loan is removed from a pool.

⁽b) Includes risk-rated loans that have been placed on nonaccrual status and loans that have been modified in a TDR.

⁽c) The asset-specific credit card allowance for loan losses is related to loans that have been modified in a TDR; such allowance is calculated based on the loans' original contractual interest rates and does not consider any incremental penalty rates.

⁽d) The prior period amounts have been revised to conform with the current period presentation.

Note 13 - Variable interest entities

For a further description of JPMorgan Chase's accounting policies regarding consolidation of VIEs, refer to Note 1 of JPMorgan Chase's 2017 Annual Report.

The following table summarizes the most significant types of Firm-sponsored VIEs by business segment.

Line of Business	Transaction Type	Activity	Form 10-Q page reference
ССВ	Credit card securitization trusts	Securitization of originated credit card receivables	145
	Mortgage securitization trusts	Servicing and securitization of both originated and purchased residential mortgages	145-147
CIB	Mortgage and other securitization trusts	Securitization of both originated and purchased residential and commercial mortgages, and other consumer loans	145-147
	Multi-seller conduits	Assist clients in accessing the financial markets in a cost-efficient manner and structures transactions to meet investor needs	147
	Municipal bond vehicles	Financing of municipal bond investments	147

The Firm also invests in and provides financing and other services to VIEs sponsored by third parties. Refer to page 148 of this Note for more information on the VIEs sponsored by third parties.

Significant Firm-sponsored VIEs

Credit card securitizations

For a more detailed discussion of JPMorgan Chase's involvement with credit card securitizations, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

As a result of the Firm's continuing involvement, the Firm is considered to be the primary beneficiary of its Firmsponsored credit card securitization trusts, including its primary vehicle, the Chase Issuance Trust. Refer to the table on page 148 of this Note for further information on consolidated VIE assets and liabilities.

Firm-sponsored mortgage and other securitization trusts
The Firm securitizes (or has securitized) originated and
purchased residential mortgages, commercial mortgages
and other consumer loans primarily in its CCB and CIB
businesses. Depending on the particular transaction, as well
as the respective business involved, the Firm may act as the
servicer of the loans and/or retain certain beneficial
interests in the securitization trusts.

For a detailed discussion of the Firm's involvement with Firm-sponsored mortgage and other securitization trusts, as well as the accounting treatment relating to such trusts, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

The following table presents the total unpaid principal amount of assets held in Firm-sponsored private-label securitization entities, including those in which the Firm has continuing involvement, and those that are consolidated by the Firm. Continuing involvement includes servicing the loans, holding senior interests or subordinated interests (including amounts required to be held pursuant to credit risk retention rules), recourse or guarantee arrangements, and derivative transactions. In certain instances, the Firm's only continuing involvement is servicing the loans. Refer to Securitization activity on page 149 of this Note for further information regarding the Firm's cash flows associated with and interests retained in nonconsolidated VIEs, and page 149 of this Note for information on the Firm's loan sales to U.S. government agencies.

	Princ	ipal a	ımount outsta	nding	5		JPMorg			t in securitized ted VIEs ^{(c)(d)(e)}	l assets in	
June 30, 2018 (in millions)	l assets held ecuritization VIEs		Assets held in onsolidated curitization VIEs	none sec	sets held in consolidated curitization VIEs with ontinuing volvement	Trading Investment assets securities				Other financial assets	Total interests held by JPMorgan Chase	
Securitization-related ^(a)												
Residential mortgage:												
Prime/Alt-A and option ARMs	\$ 67,033	\$	3,414	\$	52,235	\$	434	\$	770	\$ _	\$ 1,	,204
Subprime	17,891		10		16,517		63		_	_		63
Commercial and other(b)	100,825		-		65,166		538		1,037	217	1,	,792
Total	\$ 185,749	\$	3,424	\$	133,918	\$	1,035	\$	1,807	\$ 217	\$ 3,0	,059

	Princ	ipal a	amount outsta	ndir	ng	JPMorg		t in securitize ted VIEs ^{(c)(d)(e)}	sets in
December 31, 2017 (in millions)	 l assets held ecuritization VIEs	_	Assets held in onsolidated ecuritization VIEs	no s	Assets held in onconsolidated securitization VIEs with continuing involvement	rading assets	estment curities	Other financial assets	 al interests held by PMorgan Chase
Securitization-related ^(a)									
Residential mortgage:									
Prime/Alt-A and option ARMs	\$ 68,874	\$	3,615	\$	52,280	\$ 410	\$ 943	\$ _	\$ 1,353
Subprime	18,984		7		17,612	93	_	_	93
Commercial and other(b)	94,905		63		63,411	745	1,133	157	2,035
Total	\$ 182,763	\$	3,685	\$	133,303	\$ 1,248	\$ 2,076	\$ 157	\$ 3,481

- (a) Excludes U.S. government agency securitizations and re-securitizations, which are not Firm-sponsored. Refer to page 149 of this Note for information on the Firm's loan sales to U.S. government agencies.
- (b) Consists of securities backed by commercial loans (predominantly real estate) and non-mortgage-related consumer receivables purchased from third parties.
- (c) Excludes the following: retained servicing (refer to Note 14 for a discussion of MSRs); securities retained from loan sales to U.S. government agencies; interest rate and foreign exchange derivatives primarily used to manage interest rate and foreign exchange risks of securitization entities (Refer to Note 4 for further information on derivatives); senior and subordinated securities of \$345 million and \$79 million, respectively, at June 30, 2018, and \$88 million and \$48 million, respectively, at December 31, 2017, which the Firm purchased in connection with CIB's secondary market-making activities.
- (d) Includes interests held in re-securitization transactions.
- (e) As of June 30, 2018, and December 31, 2017, 60% and 61%, respectively, of the Firm's retained securitization interests, which are predominantly carried at fair value and include amounts required to be held pursuant to credit risk retention rules, were risk-rated "A" or better, on an S&P-equivalent basis. The retained interests in prime residential mortgages consisted of \$1.2 billion and \$1.3 billion of investment-grade and \$30 million and \$48 million of noninvestment-grade retained interests at June 30, 2018, and December 31, 2017, respectively. The retained interests in commercial and other securitizations trusts consisted of \$1.4 billion and \$1.6 billion of investment-grade and \$427 million and \$412 million of noninvestment-grade retained interests at June 30, 2018, and December 31, 2017, respectively.

Residential mortgage

The Firm securitizes residential mortgage loans originated by CCB, as well as residential mortgage loans purchased from third parties by either CCB or CIB. For a more detailed description of the Firm's involvement with residential mortgage securitizations, refer to Note 14 of JPMorgan Chase's 2017 Annual Report. Refer to the table on page 148 of this Note for more information on the consolidated residential mortgage securitizations, and the table on the previous page of this Note for further information on interests held in nonconsolidated residential mortgage securitizations.

Commercial mortgages and other consumer securitizations CIB originates and securitizes commercial mortgage loans, and engages in underwriting and trading activities involving the securities issued by securitization trusts. For a more detailed description of the Firm's involvement with commercial mortgage and other consumer securitizations, refer to Note 14 of JPMorgan Chase's 2017 Annual Report. Refer to the table on page 148 of this Note for more information on the consolidated commercial mortgage securitizations, and the table on the previous page of this Note for further information on interests held in nonconsolidated securitizations.

Re-securitizations

For a more detailed description of JPMorgan Chase's participation in certain re-securitization transactions, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

The following table presents the principal amount of securities transferred to re-securitization VIEs.

		onths ended ne 30,		ths ended e 30,
(in millions)	2018	2017	2018	2017
Transfers of securities to VIEs				
Agency	\$ 3,995	\$ 1,462	\$ 8,781	\$ 4,686

The following table presents information on nonconsolidated re-securitization VIEs.

	Noncons re-securiti	olidated zation VIEs				
(in millions)	 June 30, 2018	De	cember 31, 2017			
Firm-sponsored private-label						
Assets held in VIEs with continuing involvement ^(a)	\$ 414	\$	783			
Interest in VIEs	14		29			
Agency						
Interest in VIEs	2,249		2,250			

(a) represents the principal amount and includes the notional amount of interest-only securities.

As of June 30, 2018, and December 31, 2017, the Firm did not consolidate any agency re-securitization VIEs or any Firm-sponsored private-label re-securitization VIEs.

Multi-seller conduits

For a more detailed description of JPMorgan Chase's principal involvement with Firm-administered multi-seller conduits, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

In the normal course of business, JPMorgan Chase makes markets in and invests in commercial paper issued by the Firm-administered multi-seller conduits. The Firm held \$20.5 billion and \$20.4 billion of the commercial paper issued by the Firm-administered multi-seller conduits at June 30, 2018, and December 31, 2017, respectively, which have been eliminated in consolidation. The Firm's investments reflect the Firm's funding needs and capacity and were not driven by market illiquidity. Other than the amounts required to be held pursuant to credit risk retention rules, the Firm is not obligated under any agreement to purchase the commercial paper issued by the Firm-administered multi-seller conduits.

Deal-specific liquidity facilities, program-wide liquidity and credit enhancement provided by the Firm have been eliminated in consolidation. The Firm or the Firm-administered multi-seller conduits provide lending-related commitments to certain clients of the Firm-administered multi-seller conduits. The unfunded commitments were \$9.7 billion and \$8.8 billion at June 30, 2018, and December 31, 2017, respectively, and are reported as off-balance sheet lending-related commitments. For more information on off-balance sheet lending-related commitments, refer to Note 20.

Municipal bond vehicles

Municipal bond vehicles or tender option bond ("TOB") trusts allow institutions to finance their municipal bond investments at short-term rates. TOB transactions are known as Customer TOB trusts and Non-Customer TOB trusts. Customer TOB trusts are sponsored by a third party; refer to page 148 of this Note for further information. The Firm serves as sponsor for all Non-Customer TOB transactions. For a more detailed description of JPMorgan Chase's Municipal bond vehicles, refer to Note 14 of JPMorgan Chase's 2017 Annual Report. The Firm had no exposure to nonconsolidated Firm-sponsored municipal bond vehicles at June 30, 2018 and December 31, 2017, respectively.

Refer to page 148 of this Note for further information on consolidated municipal bond vehicles.

Consolidated VIE assets and liabilities

The following table presents information on assets and liabilities related to VIEs consolidated by the Firm as of June 30, 2018, and December 31, 2017.

			Ass	ets					Liabilities	
June 30, 2018 (in millions)	Trac	ding assets	Loans		Other ^(b)	Total assets ^(c)	ir	Beneficial nterests in IE assets ^(d)	Other ^(e)	Total liabilities
VIE program type										
Firm-sponsored credit card trusts	\$	_	\$ 31,815	\$	535	\$ 32,350	\$	16,505	\$ 15	\$ 16,520
Firm-administered multi-seller conduits		2	23,128		49	23,179		2,969	30	2,999
Municipal bond vehicles		1,370	_		3	1,373		1,401	2	1,403
Mortgage securitization entities(a)		9	3,461		48	3,518		296	181	477
Other		133	_		1,777	1,910		152	105	257
Total	\$	1,514	\$ 58,404	\$	2,412	\$ 62,330	\$	21,323	\$ 333	\$ 21,656

			Ass	ets					Liabilities	
December 31, 2017 (in millions)	Trac	ding assets	Loans		Other ^(b)	Total assets ^(c)	ir	Beneficial nterests in IE assets ^(d)	Other ^(e)	Total liabilities
VIE program type										
Firm-sponsored credit card trusts	\$	_	\$ 41,923	\$	652	\$ 42,575	\$	21,278	\$ 16	\$ 21,294
Firm-administered multi-seller conduits		_	23,411		48	23,459		3,045	28	3,073
Municipal bond vehicles		1,278	_		3	1,281		1,265	2	1,267
Mortgage securitization entities ^(a)		66	3,661		55	3,782		359	199	558
Other		105	_		1,916	2,021		134	104	238
Total	\$	1,449	\$ 68,995	\$	2,674	\$ 73,118	\$	26,081	\$ 349	\$ 26,430

- (a) Includes residential and commercial mortgage securitizations.
- (b) Includes assets classified as cash and other assets on the Consolidated balance sheets.
- (c) The assets of the consolidated VIEs included in the program types above are used to settle the liabilities of those entities. The assets and liabilities include third-party assets and liabilities of consolidated VIEs and exclude intercompany balances that eliminate in consolidation.
- (d) The interest-bearing beneficial interest liabilities issued by consolidated VIEs are classified in the line item on the Consolidated balance sheets titled, "Beneficial interests issued by consolidated variable interest entities." The holders of these beneficial interests generally do not have recourse to the general credit of JPMorgan Chase. For conduits program-wide credit enhancements, refer to note 14 of JPMorgan Chase's 2017 Annual Report. Included in beneficial interests in VIE assets are long-term beneficial interests of \$17.0 billion and \$21.8 billion at June 30, 2018, and December 31, 2017, respectively.
- (e) Includes liabilities classified as accounts payable and other liabilities on the Consolidated balance sheets.

VIEs sponsored by third parties

The Firm enters into transactions with VIEs structured by other parties. These include, for example, acting as a derivative counterparty, liquidity provider, investor, underwriter, placement agent, remarketing agent, trustee or custodian. These transactions are conducted at arm's-length, and individual credit decisions are based on the analysis of the specific VIE, taking into consideration the quality of the underlying assets. Where the Firm does not have the power to direct the activities of the VIE that most significantly impact the VIE's economic performance, or a variable interest that could potentially be significant, the Firm generally does not consolidate the VIE, but it records and reports these positions on its Consolidated balance sheets in the same manner it would record and report positions in respect of any other third-party transaction.

Tax credit vehicles

The Firm holds investments in unconsolidated tax credit vehicles, which are limited partnerships and similar entities that construct, own and operate affordable housing, wind, solar and other alternative energy projects. These entities are primarily considered VIEs. A third party is typically the

general partner or managing member and has control over the significant activities of the tax credit vehicles, and accordingly the Firm does not consolidate tax credit vehicles. The Firm generally invests in these partnerships as a limited partner and earns a return primarily through the receipt of tax credits allocated to the projects. The maximum loss exposure, represented by equity investments and funding commitments, was \$13.4 billion as of June 30, 2018 and December 31, 2017, of which \$2.9 billion and \$3.2 billion was unfunded, respectively. In order to reduce the risk of loss, the Firm assesses each project and withholds varying amounts of its capital investment until qualification of the project for tax credits. For further information on affordable housing tax credits, refer to Note 24 of JPMorgan Chase's 2017 Annual Report. For more information on off-balance sheet lending-related commitments, refer to Note 20 of this Form 10-0.

Customer municipal bond vehicles (TOB trusts)
The Firm may provide various services to Customer TOB trusts, including remarketing agent, liquidity or tender option provider. In certain Customer TOB transactions, the

Firm, as liquidity provider, has entered into a reimbursement agreement with the Residual holder.

In those transactions, upon the termination of the vehicle, the Firm has recourse to the third party Residual holders for any shortfall. The Firm does not have any intent to protect Residual holders from potential losses on any of the underlying municipal bonds. The Firm does not consolidate Customer TOB trusts, since the Firm does not have the power to make decisions that significantly impact the economic performance of the municipal bond vehicle. The Firm's maximum exposure as a liquidity provider to Customer TOB trusts at June 30, 2018 and December 31,

2017 was \$5.2 billion and \$5.3 billion, respectively. The fair value of assets held by such VIEs at June 30, 2018 and December 31, 2017, was \$8.6 billion and \$9.2 million, respectively. For more information on off-balance sheet lending-related commitments, refer to Note 20.

Loan securitizations

The Firm has securitized and sold a variety of loans, including residential mortgage, credit card, and commercial mortgage. For a further description of the Firm's accounting policies regarding securitizations, refer to Note 14 of JPMorgan Chase's 2017 Annual Report.

Securitization activity

The following table provides information related to the Firm's securitization activities for the three and six months ended June 30, 2018 and 2017, related to assets held in Firm-sponsored securitization entities that were not consolidated by the Firm, and where sale accounting was achieved at the time of the securitization.

	Three months ended June 30,									Si	x months e	ended Ju	ine 30,		
	201	18			2017				20	18			20	17	
(in millions)	idential tgage ^(e)		nmercial d other ^(f)		sidential rtgage ^(e)		mmercial d other ^(f)				mercial other ^(f)		idential rtgage ^(e)		nmercial I other ^(f)
Principal securitized	\$ 3,129	\$	2,181	\$	1,020	\$	1,997	\$	4,459	\$	5,172	\$	2,049	\$	3,312
All cash flows during the period ^(a) :															
Proceeds received from loan sales as financial instruments ^(b)	\$ 3,122	\$	2,196	\$	1,048	\$	2,029	\$	4,460	\$	5,187	\$	2,083	\$	3,377
Servicing fees collected(c)	45		-		52		1		91		_		102		2
Purchases of previously transferred financial assets (or the underlying collateral) ^(d)	_		_		1		_		_		_		1		_
Cash flows received on interests	137		84		128		206		229		131		259		541

- (a) Excludes re-securitization transactions.
- (b) Predominantly includes Level 2 assets.
- (c) The prior period amounts have been revised to conform with the current period presentation.
- (d) Includes cash paid by the Firm to reacquire assets from off-balance sheet, nonconsolidated entities for example, loan repurchases due to representation and warranties and servicer "clean-up" calls.
- (e) Includes prime, Alt-A, subprime, and option ARMs. Excludes loan securitization transactions entered into with Ginnie Mae, Fannie Mae and Freddie Mac.
- (f) Includes commercial mortgage and other consumer loans.

Loans and excess MSRs sold to U.S. government-sponsored enterprises, loans in securitization transactions pursuant to Ginnie Mae guidelines, and other third-party-sponsored securitization entities

In addition to the amounts reported in the securitization activity tables above, the Firm, in the normal course of business, sells originated and purchased mortgage loans and certain originated excess MSRs on a nonrecourse basis, predominantly to U.S. government-sponsored enterprises ("U.S. GSEs"). These loans and excess MSRs are sold primarily for the purpose of securitization by the U.S. GSEs, who provide certain guarantee provisions (e.g., credit enhancement of the loans). The Firm also sells loans into securitization transactions pursuant to Ginnie Mae guidelines; these loans are typically insured or guaranteed by another U.S. government agency. The Firm does not consolidate the securitization vehicles underlying these

transactions as it is not the primary beneficiary. For a limited number of loan sales, the Firm is obligated to share a portion of the credit risk associated with the sold loans with the purchaser. Refer to Note 20 of this Form 10-Q, and Note 27 of JPMorgan Chase's 2017 Annual Report for additional information about the Firm's loan sales- and securitization-related indemnifications. Refer to Note 14 for additional information about the impact of the Firm's sale of certain excess MSRs. The following table summarizes the activities related to loans sold to the U.S. GSEs, loans in securitization transactions pursuant to Ginnie Mae guidelines, and other third-party-sponsored securitization entities.

	TI	hree mor June	 	Six mont June		
(in millions)		2018	2017	2018		2017
Carrying value of loans sold	\$	8,076	\$ 11,711	\$ 16,836	\$	28,880
Proceeds received from loan sales as cash		_	4	_		13
Proceeds from loan sales as securities ^(a)		7,959	11,602	16,578		28,589
Total proceeds received from loan sales ^(b)	\$	7,959	\$ 11,606	\$ 16,578	\$	28,602
Gains on loan sales(c)(d)	\$	9	\$ 42	\$ 23	\$	73

- (a) Predominantly includes securities from U.S. GSEs and Ginnie Mae that are generally sold shortly after receipt.
- (b) Excludes the value of MSRs retained upon the sale of loans.
- (c) Gains on loan sales include the value of MSRs.
- (d) The carrying value of the loans accounted for at fair value approximated the proceeds received upon loan sale.

Options to repurchase delinquent loans

In addition to the Firm's obligation to repurchase certain loans due to material breaches of representations and warranties as discussed in Note 20, the Firm also has the option to repurchase delinquent loans that it services for Ginnie Mae loan pools, as well as for other U.S. government agencies under certain arrangements. The Firm typically elects to repurchase delinquent loans from Ginnie Mae loan

pools as it continues to service them and/or manage the foreclosure process in accordance with the applicable requirements, and such loans continue to be insured or guaranteed. When the Firm's repurchase option becomes exercisable, such loans must be reported on the Consolidated balance sheets as a loan with a corresponding liability. For additional information, refer to Note 11.

The following table presents loans the Firm repurchased or had an option to repurchase, real estate owned, and foreclosed government-guaranteed residential mortgage loans recognized on the Firm's Consolidated balance sheets as of June 30, 2018 and December 31, 2017. Substantially all of these loans and real estate are insured or guaranteed by U.S. government agencies.

(in millions)	J	une 30, 2018	Dec 31, 2017
Loans repurchased or option to repurchase ^(a)	\$	8,196	\$ 8,629
Real estate owned		84	95
Foreclosed government-guaranteed residential mortgage loans ^(b)		455	527

- (a) Predominantly all of these amounts relate to loans that have been repurchased from Ginnie Mae loan pools.
- (b) Relates to voluntary repurchases of loans, which are included in accrued interest and accounts receivable.

Loan delinquencies and liquidation losses

The table below includes information about components of nonconsolidated securitized financial assets held in Firm-sponsored private-label securitization entities, in which the Firm has continuing involvement, and delinquencies as of June 30, 2018, and December 31, 2017.

										N	et liquida	tion lo	sses ^(a)	
		Securitiz	ed a	issets	90 days	pas	t due	Th	Three months ended June 30,			5	ended),	
(in millions)	_	Jun 30, 2018		Dec 31, 2017	Jun 30, 2018		Dec 31, 2017		2018		2017		2018	2017
Securitized loans														
Residential mortgage:														
Prime / Alt-A & option ARMs	\$	52,235	\$	52,280	\$ 4,087	\$	4,870	\$	168	\$	226	\$	271 \$	438
Subprime		16,517		17,612	2,880		3,276		140		201		(462)	376
Commercial and other		65,166		63,411	628		957		21		5		48	57
Total loans securitized	\$	133,918	\$	133,303	\$ 7,595	\$	9,103	\$	329	\$	432	\$	(143) \$	871

⁽a) Includes liquidation gains as a result of private label mortgage settlement payments during the first quarter of 2018, which were reflected as asset recoveries by trustees.

Note 14 - Goodwill and Mortgage servicing rights

For a discussion of the accounting policies related to goodwill and mortgage servicing rights, refer to Note 15 of JPMorgan Chase's 2017 Annual Report.

Goodwill

The following table presents goodwill attributed to the business segments.

(in millions)	June 30, 2018	December 31, 2017
Consumer & Community Banking	\$ 30,999	\$ 31,013
Corporate & Investment Bank	6,772	6,776
Commercial Banking	2,860	2,860
Asset & Wealth Management	6,857	6,858
Total goodwill	\$ 47,488	\$ 47,507

The following table presents changes in the carrying amount of goodwill.

	Three mon June		Six montl June			
(in millions)	2018	2017	2018	2017		
Balance at beginning of period	\$ 47,499	\$ 47,292	\$ 47,507	\$ 47,288		
Changes during the period from:						
Other ^(a)	(11)	8	(19)	12		
Balance at June 30,	\$ 47,488	\$ 47,300	\$ 47,488	\$47,300		

⁽a) Includes foreign currency remeasurement.

Goodwill Impairment testing

For a further description of the Firm's goodwill impairment testing, including the primary method used to estimate the fair value of the reporting units, and the assumptions used in the goodwill impairment test, refer to Impairment testing on pages 244–245 of JPMorgan Chase's 2017 Annual Report.

Goodwill was not impaired at June 30, 2018, or December 31, 2017, nor was goodwill written off due to impairment during the six months ended June 30, 2018 or 2017.

Declines in business performance, increases in credit losses, increases in equity capital requirements, as well as deterioration in economic or market conditions, adverse regulatory or legislative changes or increases in the estimated market cost of equity, could cause the estimated fair values of the Firm's reporting units or their associated goodwill to decline in the future, which could result in a material impairment charge to earnings in a future period related to some portion of the associated goodwill.

Mortgage servicing rights

MSRs represent the fair value of expected future cash flows for performing servicing activities for others. The fair value considers estimated future servicing fees and ancillary revenue, offset by estimated costs to service the loans, and generally declines over time as net servicing cash flows are received, effectively amortizing the MSR asset against contractual servicing and ancillary fee income. MSRs are either purchased from third parties or recognized upon sale or securitization of mortgage loans if servicing is retained. For a further description of the MSR asset, interest rate risk management, and the valuation of MSRs, refer to Notes 2 and 15 of JPMorgan Chase's 2017 Annual Report.

The following table summarizes MSR activity for the three and six months ended June 30, 2018 and 2017.

	As	of or for the ended Ju		As	of or for th ended J	
(in millions, except where otherwise noted)		2018	2017		2018	2017
Fair value at beginning of period	\$	6,202	\$ 6,079	\$	6,030	\$ 6,096
MSR activity:						
Originations of MSRs		157	154		333	371
Purchase of MSRs		79	_		146	_
Disposition of MSRs ^(a)		(104)	(67)		(399)	(138)
Net additions/(dispositions)		132	87		80	233
Changes due to collection/realization of expected cash flows		(187)	(213)		(347)	(419)
Changes in valuation due to inputs and assumptions:						
Changes due to market interest rates and other(b)		103	(178)		485	(121)
Changes in valuation due to other inputs and assumptions:						
Projected cash flows (e.g., cost to service)		_	2		_	14
Discount rates		-	(7)		24	(19)
Prepayment model changes and other ^(c)		(9)	(17)		(31)	(31)
Total changes in valuation due to other inputs and assumptions		(9)	(22)		(7)	(36)
Total changes in valuation due to inputs and assumptions		94	(200)		478	(157)
Fair value at June 30,	\$	6,241	\$ 5,753	\$	6,241	\$ 5,753
Change in unrealized gains/(losses) included in income related to MSRs held at June 30,	\$	94	\$ (200)	\$	478	\$ (157)
Contractual service fees, late fees and other ancillary fees included in income		446	477		911	964
Third-party mortgage loans serviced at June 30, (in billions)		534	569		534	569
Net servicer advances at June 30, (in billions) ^(d)		3.3	4.1		3.3	4.1

⁽a) Includes excess MSRs transferred to agency-sponsored trusts in exchange for stripped mortgage backed securities ("SMBS"). In each transaction, a portion of the SMBS was acquired by third parties at the transaction date; the Firm acquired the remaining balance of those SMBS as trading securities.

⁽b) Represents both the impact of changes in estimated future prepayments due to changes in market interest rates, and the difference between actual and expected prepayments.

⁽c) Represents changes in prepayments other than those attributable to changes in market interest rates.

⁽d) Represents amounts the Firm pays as the servicer (e.g., scheduled principal and interest, taxes and insurance), which will generally be reimbursed within a short period of time after the advance from future cash flows from the trust or the underlying loans. The Firm's credit risk associated with these servicer advances is minimal because reimbursement of the advances is typically senior to all cash payments to investors. In addition, the Firm maintains the right to stop payment to investors if the collateral is insufficient to cover the advance. However, certain of these servicer advances may not be recoverable if they were not made in accordance with applicable rules and agreements.

The following table presents the components of mortgage fees and related income (including the impact of MSR risk management activities) for the three and six months ended June 30, 2018 and 2017.

	Thr	ee months	ended J	une 30,	Six	months er	ided Ju	ine 30,
(in millions)		2018		2017		2018		2017
CCB mortgage fees and related income								
Net production revenue	\$	93	\$	152	\$	188	\$	293
Net mortgage servicing revenue:								
Operating revenue:								
Loan servicing revenue		441		518		954		1,040
Changes in MSR asset fair value due to collection/realization of expected cash flows		(187)		(212)		(347)		(417)
Total operating revenue		254		306		607		623
Risk management:								
Changes in MSR asset fair value due to market interest rates and other ^(a)		104		(178)		486		(121)
Other changes in MSR asset fair value due to other inputs and assumptions in $model^{(b)}$		(9)		(22)		(7)		(36)
Change in derivative fair value and other		(118)		143		(485)		48
Total risk management		(23)		(57)		(6)		(109)
Total net mortgage servicing revenue		231		249		601		514
Total CCB mortgage fees and related income		324		401		789		807
All other		_		3		-		3
Mortgage fees and related income	\$	324	\$	404	\$	789	\$	810

⁽a) Represents both the impact of changes in estimated future prepayments due to changes in market interest rates, and the difference between actual and expected prepayments.

The table below outlines the key economic assumptions used to determine the fair value of the Firm's MSRs at June 30, 2018, and December 31, 2017, and outlines hypothetical sensitivities of those fair values to immediate adverse changes in those assumptions, as defined below.

(in millions, except rates)	Jun 30, 2018	Dec 31, 2017
Weighted-average prepayment speed assumption ("CPR")	8.43%	9.35%
Impact on fair value of 10% adverse change	\$ (195)	\$ (221)
Impact on fair value of 20% adverse change	(379)	(427)
Weighted-average option adjusted spread	8.72%	9.04%
Impact on fair value of a 100 basis point adverse change	\$ (245)	\$ (250)
Impact on fair value of a 200 basis point adverse change	(472)	(481)

CPR: Constant prepayment rate.

Changes in fair value based on variation in assumptions generally cannot be easily extrapolated, because the relationship of the change in the assumptions to the change in fair value are often highly interrelated and may not be linear. In this table, the effect that a change in a particular assumption may have on the fair value is calculated without changing any other assumption. In reality, changes in one factor may result in changes in another, which would either magnify or counteract the impact of the initial change.

⁽b) Represents the aggregate impact of changes in model inputs and assumptions such as projected cash flows (e.g., cost to service), discount rates and changes in prepayments other than those attributable to changes in market interest rates (e.g., changes in prepayments due to changes in home prices).

Note 15 - Deposits

For further information on deposits, refer to Note 17 of JPMorgan Chase's 2017 Annual Report.

At June 30, 2018, and December 31, 2017, noninterest-bearing and interest-bearing deposits were as follows.

(in millions)	June 30, 2018	D	ecember 31, 2017
U.S. offices			
Noninterest-bearing	\$ 385,741	\$	393,645
Interest-bearing (included \$15,542 and \$14,947 at fair value) ^(a)	819,454		793,618
Total deposits in U.S. offices	1,205,195		1,187,263
Non-U.S. offices	,		
Noninterest-bearing	16,602		15,576
Interest-bearing (included \$4,154 and \$6,374 at fair value) ^(a)	230,325		241,143
Total deposits in non-U.S. offices	246,927		256,719
Total deposits	\$ 1,452,122	\$	1,443,982

⁽a) Includes structured notes classified as deposits for which the fair value option has been elected. For a further discussion, refer to Note 3 of JPMorgan Chase's 2017 Annual Report.

Note 16 - Earnings per share

For a discussion of the computation of basic and diluted earnings per share ("EPS"), refer to Note 22 of JPMorgan Chase's 2017 Annual Report. The following table presents the calculation of basic and diluted EPS for the three and six months ended June 30, 2018 and 2017.

(in millions, except	T	hree mor June			hs ended 30,
per share amounts)		2018	2017	2018	2017
Basic earnings per share					
Net income	\$	8,316	\$ 7,029	\$ 17,028	\$ 13,477
Less: Preferred stock dividends		379	411	788	823
Net income applicable to common equity		7,937	6,618	16,240	12,654
Less: Dividends and undistributed earnings allocated to participating securities		57	63	121	123
Net income applicable to common stockholders	\$	7,880	\$ 6,555	\$ 16,119	\$ 12,531
Total weighted- average basic shares outstanding		3,415.2	3,574.1	3,436.7	3,587.9
Net income per share	\$	2.31	\$ 1.83	\$ 4.69	\$ 3.49
Diluted earnings per share					
Net income applicable to common stockholders	\$	7,880	\$ 6,555	\$ 16,119	\$ 12,531
Total weighted- average basic shares outstanding		3,415.2	3,574.1	3,436.7	3,587.9
Add: Employee stock options, SARs, warrants and unvested PSUs		19.5	24.9	20.4	26.8
Total weighted- average diluted shares outstanding		3,434.7	3,599.0	3,457.1	3,614.7
Net income per share	\$	2.29	\$ 1.82	\$ 4.66	\$ 3.47

Note 17 - Accumulated other comprehensive income/(loss)

AOCI includes the after-tax change in unrealized gains and losses on investment securities, foreign currency translation adjustments (including the impact of related derivatives), fair value changes of excluded components on fair value hedges, cash flow hedging activities, net loss and prior service costs/(credit) related to the Firm's defined benefit pension and OPEB plans.

As of or for the three months ended June 30, 2018 (in millions)	Unrealized gains/(losses) on investment securities	ad	anslation ustments, of hedges	r value dges ^(b)	h flow dges	Defined benefit pension and OPEB plans	optio	n fair value In elected bilities	Accumulated other comprehensive income/(loss)
Balance at April 1, 2018	\$ 1,826	\$	(720)	\$ (94)	\$ 19	\$ (1,914)	\$	(180)	\$ (1,063)
Net change	(227)		88	(68)	(166)	38		260	(75)
Balance at June 30, 2018	\$ 1,599	\$	(632)	\$ (162)	\$ (147)	\$ (1,876)	\$	80	\$ (1,138)

As of or for the three months ended June 30, 2017 (in millions)	Unrealized gains/(losses) on investment securities	Translation adjustments, net of hedges	Fair value hedges	Cash flow hedges	Defined benefit pension and OPEB plans	DVA on fair value option elected liabilities	Accumulated other comprehensive income/(loss)
Balance at April 1, 2017	\$ 1,762	\$ (157)	NA	\$ (9)	\$ (2,274)	\$ (245)	\$ (923)
Net change	457	_	NA	53	19	2	531
Balance at June 30, 2017	\$ 2,219	\$ (157)	NA	\$ 44	\$ (2,255)	\$ (243)	\$ (392)

As of or for the six months ended June 30, 2018 (in millions)	Unrealized gains/(losses) on investment securities	Translation adjustments, net of hedges	Fair value hedges	Cash flow hedges	Defined benefit pension and OPEB plans	DVA on fair value option elected liabilities	Accumulated other comprehensive income/(loss)
Balance at January 1, 2018	\$ 2,164	\$ (470)	\$ -	\$ 76	\$ (1,521)	\$ (368)	\$ (119)
Cumulative effect of changes in accounting principles: ^(a)							
Premium amortization on purchased callable debt securities	261	_	_	_	_	_	261
Hedge accounting	169	_	(54)	-	_	_	115
Reclassification of certain tax effects from AOCI	466	(277)	_	16	(414)	(79)	(288)
Net change	(1,461)	115	(108)	(239)	59	527	(1,107)
Balance at June 30, 2018	\$ 1,599	\$ (632)	\$ (162)	\$ (147)	\$ (1,876)	\$ 80	\$ (1,138)

As of or for the six months ended June 30, 2017 (in millions)	Unrealized gains/(losses) on investment securities	Translation adjustments, net of hedges	Fair value hedges	Cash flow hedges	Defined benefit pension and OPEB plans	DVA on fair value option elected liabilities	Accumulated other comprehensive income/(loss)
Balance at January 1, 2017	\$ 1,524	\$ (164)	NA	\$ (100)	\$ (2,259)	\$ (176)	\$ (1,175)
Net change	695	7	NA	144	4	(67)	783
Balance at June 30, 2017	\$ 2,219	\$ (157)	NA	\$ 44	\$ (2,255)	\$ (243)	\$ (392)

⁽a) Represents the adjustment to AOCI as a result of the new accounting standards adopted in the first quarter of 2018.

⁽b) Represents changes in fair value of cross-currency swaps attributable to changes in cross-currency basis spreads, which are excluded from the assessment of hedge effectiveness and recorded in other comprehensive income. The initial cost of cross-currency basis spreads is recognized in earnings as part of the accrual of interest on the cross currency swap.

The following table presents the pre-tax and after-tax changes in the components of OCI.-

			2	018					2017				
Three months ended June 30, (in millions)	Pi	re-tax	Tax	effect	Af	fter-tax	Pr	e-tax	Tax	effect	Aft	er-tax	
Unrealized gains/(losses) on investment securities:													
Net unrealized gains/(losses) arising during the period	\$	(376)	\$	88	\$	(288)	\$	695	\$	(259)	\$	436	
Reclassification adjustment for realized (gains)/losses included in net income ^(a)		80		(19)		61		34		(13)		21	
Net change		(296)		69		(227)		729		(272)		457	
Translation adjustments ^(b) :													
Translation		(1,056)		208		(848)		317		(117)		200	
Hedges		1,227		(291)		936		(319)		119		(200)	
Net change		171		(83)		88		(2)		2		-	
Fair value hedges, net change ^(c) :		(89)		21		(68)		NA		NA		NA	
Cash flow hedges:													
Net unrealized gains/(losses) arising during the period		(199)		47		(152)		23		(10)		13	
Reclassification adjustment for realized (gains)/losses included in net income ^(d)		(19)		5		(14)		65		(25)		40	
Net change		(218)		52		(166)		88		(35)		53	
Defined benefit pension and OPEB plans:													
Net gains/(losses) arising during the period		2		_		2		6		(2)		4	
Reclassification adjustments included in net income ^(e) :													
Amortization of net loss		26		(6)		20		62		(23)		39	
Prior service costs/(credits)		(6)		2		(4)		(9)		4		(5)	
Foreign exchange and other		31		(11)		20		(25)		6		(19)	
Net change		53		(15)		38		34		(15)		19	
DVA on fair value option elected liabilities, net change:		340		(80)		260		2		-		2	
Total other comprehensive income/(loss)	\$	(39)	\$	(36)	\$	(75)	\$	851	\$	(320)	\$	531	

			2	018					2017					
Six months ended June 30, (in millions)	Pre	e-tax	Tax	effect	Af	ter-tax	P	re-tax	Tax	effect	Afte	er-tax		
Unrealized gains/(losses) on investment securities:														
Net unrealized gains/(losses) arising during the period	\$ ((2,234)	\$	525	\$	(1,709)	\$	1,062	\$	(390)	\$	672		
Reclassification adjustment for realized (gains)/losses included in net income ^(a)		325		(77)		248		37		(14)		23		
Net change	((1,909)		448		(1,461)		1,099		(404)		695		
Translation adjustments:(b)														
Translation		(667)		143		(524)		899		(342)		557		
Hedges		838		(199)		639		(875)		325		(550)		
Net change		171		(56)		115		24		(17)		7		
Fair value hedges, net change ^(c) :		(141)		33		(108)		NA		NA		NA		
Cash flow hedges:														
Net unrealized gains/(losses) arising during the period		(243)		58		(185)		82		(31)		51		
Reclassification adjustment for realized (gains)/losses included in net income ^(d)		(71)		17		(54)		150		(57)		93		
Net change		(314)		75		(239)		232		(88)		144		
Defined benefit pension and OPEB plans:														
Net gains/(losses) arising during the period		25		(6)		19		(52)		19		(33)		
Reclassification adjustments included in net income ^(e) :														
Amortization of net loss		52		(12)		40		124		(46)		78		
Prior service costs/(credits)		(12)		3		(9)		(18)		7		(11)		
Settlement (gain)/loss		_		_		_		(3)		1		(2)		
Foreign exchange and other		12		(3)		9		(32)		4		(28)		
Net change		77		(18)		59		19		(15)		4		
DVA on fair value option elected liabilities, net change:	\$	690	\$	(163)	\$	527	\$	(105)	\$	38	\$	(67)		
Total other comprehensive income/(loss)	\$ ((1,426)	\$	319	\$	(1,107)	\$	1,269	\$	(486)	\$	783		

⁽a) The pre-tax amount is reported in investment securities losses in the Consolidated statements of income.

⁽b) Reclassifications of pre-tax realized gains/(losses) on translation adjustments and related hedges are reported in other income/expense in the Consolidated statements of income. During the three and six months ended June 30, 2018, the Firm reclassified a net pre-tax loss of \$174 million to other expense related to the liquidation of a legal entity, comprised of \$23 million related to net investment hedge losses and \$151 million related to cumulative translation adjustments. During the six months ended June 30, 2017, the Firm reclassified a net pre-tax loss of \$25 million to other expense related to the liquidation of a legal entity, comprised of \$47 million related to net investment hedge gains and \$72 million related to cumulative translation adjustments. There were no such reclassifications during the three months ended June 30, 2017.

⁽c) Represents changes in fair value of cross-currency swaps attributable to changes in cross-currency basis spreads, which are excluded from the assessment of hedge effectiveness and recorded in other comprehensive income. The initial cost of cross-currency basis spreads is recognized in earnings as part of the accrual of interest on the cross currency swap.

⁽d) The pre-tax amounts are predominantly recorded in noninterest revenue, net interest income and compensation expense in the Consolidated statements of income.

⁽e) The pre-tax amount is reported in other expense in the Consolidated statements of income.

Note 18 - Restricted cash and other restricted assets

For a detailed discussion of the Firm's restricted cash and other restricted assets, refer to Note 25 of JPMorgan Chase's 2017 Annual Report.

As a result of the adoption of the restricted cash accounting guidance in the first quarter of 2018, restricted cash is included with unrestricted cash when reconciling the beginning and ending cash balances on the Consolidated statements of cash flows.

The following table presents the components of the Firm's restricted cash:

(in billions)	June 30, 2018	December 31, 2017
Cash reserves - Federal Reserve Banks	\$ 22.8	\$ 25.7
Segregated for the benefit of securities and futures brokerage customers	15.3	16.8
Cash reserves at non-U.S. central banks and held for other general purposes	3.2	3.3
Total restricted cash ^(a)	\$ 41.3	\$ 45.8

(a) Comprises \$40.0 billion and \$44.8 billion in deposits with banks, and \$1.3 billion and \$1.0 billion in cash and due from banks on the Consolidated balance sheets as of June 30, 2018 and December 31, 2017, respectively.

Also, as of June 30, 2018 and December 31, 2017, the Firm had:

- Cash and securities pledged with clearing organizations for the benefit of customers of \$18.4 billion and \$18.0 billion, respectively.
- Securities with a fair value of \$5.2 billion and \$3.5 billion, respectively, were also restricted in relation to customer activity.

Note 19 - Regulatory capital

For a detailed discussion on regulatory capital, refer to Note 26 of JPMorgan Chase's 2017 Annual Report.

The Federal Reserve establishes capital requirements, including well-capitalized standards, for the consolidated financial holding company. The Office of the Comptroller of the Currency ("OCC") establishes similar minimum capital requirements and standards for the Firm's insured depository institutions ("IDI"), including JPMorgan Chase Bank, N.A. and Chase Bank USA, N.A.

Under the risk-based capital guidelines of the Federal Reserve, JPMorgan Chase is required to maintain minimum ratios for CET1, Tier 1, Total, Tier 1 leverage and the SLR. Failure to meet these minimum requirements could cause the Federal Reserve to take action. IDI subsidiaries are also subject to these capital requirements by their respective primary regulators.

The following table represents the minimum and well-capitalized ratios to which the Firm and its IDI subsidiaries were subject as of June 30, 2018.

	Minimum capi	tal ratios	Well-capitalize	ed ratios
	BHC ^{(a)(e)}	IDI ^{(b)(e)}	BHC ^(c)	IDI ^(d)
Capital ratios	,		'	
CET1	9.0%	6.375%	-%	6.5%
Tier 1	10.5	7.875	6.0	8.0
Total	12.5	9.875	10.0	10.0
Tier 1 leverage	4.0	4.0	5.0	5.0
SLR	5.0	6.0	-	6.0

Note: The table above is as defined by the regulations issued by the Federal Reserve, OCC and FDIC and to which the Firm and its IDI subsidiaries are subject.

- (a) Represents the Transitional minimum capital ratios applicable to the Firm under Basel III at June 30, 2018. At June 30, 2018, the CET1 minimum capital ratio includes 1.875% resulting from the phase in of the Firm's 2.5% capital conservation buffer and 2.625%, resulting from the phase in of the Firm's 3.5% GSIB surcharge.
- (b) Represents requirements for JPMorgan Chase's IDI subsidiaries. The CET1 minimum capital ratio includes 1.875% resulting from the phase in of the 2.5% capital conservation buffer that is applicable to the IDI subsidiaries. The IDI subsidiaries are not subject to the GSIB surcharge.
- (c) Represents requirements for bank holding companies pursuant to regulations issued by the Federal Reserve.
- (d) Represents requirements for IDI subsidiaries pursuant to regulations issued under the FDIC Improvement Act.
- (e) For the period ended December 31, 2017, the CET1, Tier 1, Total and Tier 1 leverage minimum capital ratios applicable to the Firm were 7.5%, 9.0%, 11.0% and 4.0%, and the CET1, Tier 1, Total and Tier 1 leverage minimum capital ratios applicable to the Firm's IDI subsidiaries were 5.75%, 7.25%, 9.25% and 4.0%, respectively.

The following tables present the risk-based and leverage-based capital metrics for JPMorgan Chase and its significant IDI subsidiaries under both the Basel III Standardized and Basel III Advanced Approaches. As of June 30, 2018, and December 31, 2017, JPMorgan Chase and all of its IDI subsidiaries were well-capitalized and met all capital requirements to which each was subject.

	Basel I	II Sta	andardized Trai	nsiti	onal	Basel III Advanced Transitional							
June 30, 2018 (in millions, except ratios)	JPMorgan Chase & Co.	Ch	JPMorgan ase Bank, N.A.		Chase Bank USA, N.A.		JPMorgan Chase & Co.		JPMorgan nase Bank, N.A.		Chase Bank USA, N.A.		
Regulatory capital													
CET1 capital	\$ 184,708	\$	188,784	\$	22,447	\$	184,708	\$	188,784	\$	22,447		
Tier 1 capital	210,321		188,784		22,447		210,321		188,784		22,447		
Total capital	238,630		200,065		27,321		229,027		193,844		25,947		
Assets													
Risk-weighted	1,543,370		1,356,526		107,938		1,438,747		1,216,608		178,118		
Adjusted average ^(a)	2,566,013		2,153,804		114,160		2,566,013		2,153,804		114,160		
Capital ratios(b)													
CET1	12.0%	ò	13.9%	ó	20.8%		12.8%	ó	15.5%	.	12.6%		
Tier 1	13.6		13.9		20.8		14.6		15.5		12.6		
Total	15.5		14.7		25.3		15.9		15.9		14.6		
Tier 1 leverage(c)	8.2		8.8		19.7		8.2		8.8		19.7		

	Basel	III Standardized Trai	nsitional	Base	el III Advanced Transiti	ional
December 31, 2017 (in millions, except ratios)	JPMorgan Chase & Co.	JPMorgan Chase Bank, N.A.	Chase Bank USA, N.A.	JPMorgan Chase & Co.	JPMorgan Chase Bank, N.A.	Chase Bank USA, N.A.
Regulatory capital						
CET1 capital	\$ 183,300	\$ 184,375	\$ 21,600	\$ 183,300	\$ 184,375	\$ 21,600
Tier 1 capital	208,644	184,375	21,600	208,644	184,375	21,600
Total capital	238,395	195,839	27,691	227,933	189,510 ^(d)	26,250
Assets						
Risk-weighted	1,499,506	1,338,970	d) 113,108	1,435,825	1,241,916 (d)	190,523
Adjusted average ^(a)	2,514,270	2,116,031	126,517	2,514,270	2,116,031	126,517
Capital ratios ^(b)						
CET1	12.2%	13.8%	19.1%	12.8%	6 14.8% ^(d)	11.3%
Tier 1	13.9	13.8	19.1	14.5	14.8 ^(d)	11.3
Total	15.9	14.6	d) 24.5	15.9	15.3 ^(d)	13.8
Tier 1 leverage(c)	8.3	8.7	17.1	8.3	8.7	17.1

⁽a) Adjusted average assets, for purposes of calculating the Tier 1 leverage ratio, includes total quarterly average assets adjusted for on-balance sheet assets that are subject to deduction from Tier 1 capital, predominantly goodwill and other intangible assets.

⁽d) The prior period amounts have been revised to conform with the current period presentation.

		J	une 30, 2018					Dece	ember 31, 2017	7	
	Basel	dvanced Fully P	ed-In	Basel III Advanced Transitional							
(in millions, except ratios)	JPMorgan Chase & Co.				Chase Bank USA, N.A.		JPMorgan Chase & Co.	JPMorgan Chase Bank, N.A.			Chase Bank USA, N.A.
Total leverage exposure(a)	\$ 3,255,296	\$	2,799,458	\$ 172,003		\$	3,204,463	\$	2,775,041	\$	182,803
SLR ^(a)	6.5%	6.7%	7% 13.1%			6.5%	ó	6.6% 1			

⁽a) Effective January 1, 2018, the SLR was fully phased-in under Basel III. The December 31, 2017, amounts were calculated under the Basel III Transitional rules.

⁽b) For each of the risk-based capital ratios, the capital adequacy of the Firm and its IDI subsidiaries is evaluated against the lower of the two ratios as calculated under Basel III approaches (Standardized or Advanced) as required by the Collins Amendment of the Dodd-Frank Act (the "Collins Floor").

⁽c) The Tier 1 leverage ratio is not a risk-based measure of capital.

Note 20 - Off-balance sheet lending-related financial instruments, guarantees, and other commitments

JPMorgan Chase provides lending-related financial instruments (e.g., commitments and guarantees) to address the financing needs of its customers and clients. The contractual amount of these financial instruments represents the maximum possible credit risk to the Firm should the customer or client draw upon the commitment or the Firm be required to fulfill its obligation under the guarantee, and should the customer or client subsequently fail to perform according to the terms of the contract. Most of these commitments and guarantees are refinanced, extended, cancelled, or expire without being drawn or a default occurring. As a result, the total contractual amount of these instruments is not, in the Firm's view. representative of its expected future credit exposure or funding requirements. For a further discussion of lendingrelated commitments and guarantees, and the Firm's related accounting policies, refer to Note 27 of JPMorgan Chase's 2017 Annual Report.

To provide for probable credit losses inherent in wholesale and certain consumer lending-related commitments, an allowance for credit losses on lending-related commitments is maintained. Refer to Note 12 for further information regarding the allowance for credit losses on lending-related commitments. The following table summarizes the contractual amounts and carrying values of off-balance sheet lending-related financial instruments, guarantees and other commitments at June 30, 2018, and December 31. 2017. The amounts in the table below for credit card and home equity lending-related commitments represent the total available credit for these products. The Firm has not experienced, and does not anticipate, that all available lines of credit for these products will be utilized at the same time. The Firm can reduce or cancel credit card lines of credit by providing the borrower notice or, in some cases as permitted by law, without notice. In addition, the Firm typically closes credit card lines when the borrower is 60 days or more past due. The Firm may reduce or close HELOCs when there are significant decreases in the value of the underlying property, or when there has been a demonstrable decline in the creditworthiness of the borrower.

Off-balance sheet lending-related financial instruments, guarantees and other commitments

			Contrac	tual amount			Carrying	value ^(g)
			June 30, 20	18		Dec 31, 2017	Jun 30, 2018	Dec 31, 2017
By remaining maturity (in millions)	Expires in 1 year or less	Expires after 1 year through 3 years	Expires after 3 years through 5 years	Expires after 5 years	Total	Total		2017
Lending-related								
Consumer, excluding credit card:								
Home equity	\$ 1,202	\$ 1,163	\$ 1,559	\$ 16,606	\$ 20,530	\$ 20,360	\$ 12	\$ 12
Residential mortgage ^(a)	8,342	-	_	12	8,354	5,736	_	_
Auto	7,770	949	187	153	9,059	9,255	2	2
Consumer & Business Banking	12,410	796	110	525	13,841	13,202	19	19
Total consumer, excluding credit card	29,724	2,908	1,856	17,296	51,784	48,553	33	33
Credit card	592,452	-	-	_	592,452	572,831	-	_
Total consumer ^(b)	622,176	2,908	1,856	17,296	644,236	621,384	33	33
Wholesale:								
Other unfunded commitments to extend credit ^(c)	86,217	130,739	140,327	9,395	366,678	331,160	942	840
Standby letters of credit and other financial guarantees ^(c)	14,469	8,744	7,042	1,708	31,963	35,226	593	636
Other letters of credit ^(c)	2,914	54	148		3,116	3,712	4	3
Total wholesale ^(d)	103,600	139,537	147,517	11,103	401,757	370,098	1,539	1,479
Total lending-related	\$ 725,776	\$ 142,445	\$ 149,373	\$ 28,399	\$ 1,045,993	\$ 991,482	\$ 1,572	\$ 1,512
Other guarantees and commitments								
Securities lending indemnification agreements and guarantees ^(e)	\$ 202,797	\$ -	\$ -	\$ -	\$ 202,797	\$ 179,490	\$ -	\$ -
Derivatives qualifying as guarantees	4,737	334	12,415	40,235	57,721	57,174	457	304
Unsettled reverse repurchase and securities borrowing agreements	102,480	_	_	_	102,480	76,859	_	_
Unsettled repurchase and securities lending agreements	92,150	_	_	_	92,150	44,205	_	_
Loan sale and securitization-related indemnifications:								
Mortgage repurchase liability	NA	NA	NA	NA	NA	NA	123	111
Loans sold with recourse	NA	NA	NA	NA	1,084	1,169	33	38
Other guarantees and commitments(f)	11,754	1,458	209	2,664	16,085	11,867	(225)	(76)

⁽a) Includes certain commitments to purchase loans from correspondents.

⁽b) Predominantly all consumer lending-related commitments are in the U.S.

⁽c) At June 30, 2018, and December 31, 2017, reflected the contractual amount net of risk participations totaling \$287 million and \$334 million respectively, for other unfunded commitments to extend credit; \$9.8 billion and \$10.4 billion, respectively, for standby letters of credit and other financial guarantees; and \$407 million and \$405 million, respectively, for other letters of credit. In regulatory filings with the Federal Reserve these commitments are shown gross of risk participations.

⁽d) At June 30, 2018, and December 31, 2017, the U.S. portion of the contractual amount of total wholesale lending-related commitments was 78% and 77%, respectively.

⁽e) At June 30, 2018, and December 31, 2017, collateral held by the Firm in support of securities lending indemnification agreements was \$213.7 billion and \$188.7 billion, respectively. Securities lending collateral primarily consists of cash and securities issued by governments that are members of G7 and U.S. government agencies.

⁽f) At June 30, 2018, and December 31, 2017, primarily includes letters of credit hedged by derivative transactions and managed on a market risk basis, unfunded commitments related to institutional lending and commitments associated with the Firm's membership in certain clearing houses. Additionally, includes unfunded commitments predominantly related to certain tax-oriented equity investments.

⁽g) For lending-related products, the carrying value represents the allowance for lending-related commitments and the guarantee liability; for derivative-related products, the carrying value represents the fair value.

Other unfunded commitments to extend credit

Other unfunded commitments to extend credit generally consist of commitments for working capital and general corporate purposes, extensions of credit to support commercial paper facilities and bond financings in the event that those obligations cannot be remarketed to new investors, as well as committed liquidity facilities to clearing organizations. The Firm also issues commitments under multipurpose facilities which could be drawn upon in several forms, including the issuance of a standby letter of credit.

The Firm acts as a settlement and custody bank in the U.S. tri-party repurchase transaction market. In its role as settlement and custody bank, the Firm in part is exposed to the intra-day credit risk of its cash borrower clients, usually broker-dealers. This exposure arises under secured

clearance advance facilities that the Firm extended to its clients (i.e., cash borrowers); these facilities contractually limit the Firm's intra-day credit risk to the facility amount and must be repaid by the end of the day. As of December 31, 2017 the secured clearance advance facility maximum outstanding commitment amount was \$1.5 billion. As of June 30, 2018 the Firm no longer offers such arrangements to its clients.

Standby letters of credit and other financial guarantees

Standby letters of credit and other financial guarantees are conditional lending commitments issued by the Firm to guarantee the performance of a client or customer to a third party under certain arrangements, such as commercial paper facilities, bond financings, acquisition financings, trade and similar transactions.

The following table summarizes the standby letters of credit and other letters of credit arrangements as of June 30, 2018, and December 31, 2017.

Standby letters of credit, other financial guarantees and other letters of credit

		June 3	0, 2018			December	31, 20	17
(in millions)	cr	ndby letters of edit and other financial guarantees	_	ther letters of credit	cre	ndby letters of edit and other financial guarantees	0	ther letters of credit
Investment-grade ^(a)	\$	25,512	\$	2,267	\$	28,492	\$	2,646
Noninvestment-grade ^(a)		6,451		849		6,734		1,066
Total contractual amount	\$	31,963	\$	3,116	\$	35,226	\$	3,712
Allowance for lending-related commitments	\$	139	\$	4	\$	192	\$	3
Guarantee liability		454		-		444		_
Total carrying value	\$	593	\$	4	\$	636	\$	3
Commitments with collateral	\$	16,326	\$	597	\$	17,421	\$	878

⁽a) The ratings scale is based on the Firm's internal ratings which generally correspond to ratings as defined by S&P and Moody's.

Derivatives qualifying as guarantees

The Firm transacts certain derivative contracts that have the characteristics of a guarantee under U.S. GAAP. For further information on these derivatives, refer to Note 27 of JPMorgan Chase's 2017 Annual Report.

The following table summarizes the derivatives qualifying as guarantees as of June 30, 2018, and December 31, 2017.

(in millions)	June 30, 2018	Dec	ember 31, 2017
Notional amounts			
Derivative guarantees	\$ 57,721	\$	57,174
Stable value contracts with contractually limited exposure	28,487		29,104
Maximum exposure of stable value contracts with contractually limited exposure	2,946		3,053
Fair value			
Derivative payables	457		304
Derivative receivables	_		

In addition to derivative contracts that meet the characteristics of a guarantee, the Firm is both a purchaser and seller of credit protection in the credit derivatives market. For a further discussion of credit derivatives, refer to Note 4.

Loan sales- and securitization-related indemnifications

In connection with the Firm's mortgage loan sale and securitization activities with GSEs and in certain private label transactions, the Firm has made representations and warranties that the loans sold meet certain requirements, and that may require the Firm to repurchase mortgage loans and/or indemnify the loan purchaser if such representations and warranties are breached by the Firm. Further, although the Firm's securitizations are predominantly nonrecourse, the Firm does provide recourse servicing in certain limited cases where it agrees to share credit risk with the owner of the mortgage loans. For additional information, refer to Note 27 of JPMorgan Chase's 2017 Annual Report.

The liability related to repurchase demands associated with private label securitizations is separately evaluated by the Firm in establishing its litigation reserves. For additional information regarding litigation, refer to Note 22 of this Form 10-Q and Note 29 of JPMorgan Chase's 2017 Annual Report.

Guarantees of subsidiary

The Parent Company has guaranteed certain long-term debt and structured notes of its subsidiaries, including JPMorgan Chase Financial Company LLC ("JPMFC"), a 100%-owned finance subsidiary. All securities issued by JPMFC are fully and unconditionally guaranteed by the Parent Company, and these guarantees rank on a parity with the Firm's unsecured and unsubordinated indebtedness.

Note 21 - Pledged assets and collateral

For a discussion of the Firm's pledged assets and collateral, refer to Note 28 of JPMorgan Chase's 2017 Annual Report.

Pledged assets

The Firm may pledge financial assets that it owns to maintain potential borrowing capacity with central banks and for other purposes, including to secure borrowings and public deposits, collateralize repurchase and other securities financing agreements, and cover customer short sales. Certain of these pledged assets may be sold or repledged or otherwise used by the secured parties and are parenthetically identified on the Consolidated balance sheets as assets pledged.

The following table presents the Firm's pledged assets.

(in billions)	June 30, 2018	De	ecember 31, 2017
Assets that may be sold or repledged or otherwise used by secured parties	\$ 140.4	\$	135.8
Assets that may not be sold or repledged or otherwise used by secured parties	76.7		68.1
Assets pledged at Federal Reserve banks and FHLBs	487.0		493.7
Total assets pledged	\$ 704.1	\$	697.6

Total assets pledged do not include assets of consolidated VIEs; these assets are used to settle the liabilities of those entities. Refer to Note 13 for additional information on assets and liabilities of consolidated VIEs. For additional information on the Firm's securities financing activities, refer to Note 10. For additional information on the Firm's long-term debt, refer to Note 19 of JPMorgan Chase's 2017 Annual Report.

Collateral

The Firm accepts financial assets as collateral that it is permitted to sell or repledge, deliver or otherwise use. This collateral is generally obtained under resale agreements, securities borrowing agreements, customer margin loans and derivative agreements. Collateral is generally used under repurchase agreements, securities lending agreements or to cover customer short sales and to collateralize deposits and derivative agreements.

The following table presents the fair value of collateral accepted.

(in billions)	June 30, 2018	December 31, 2017
Collateral permitted to be sold or repledged, delivered, or otherwise used	\$ 1,102.8	\$ 968.8
Collateral sold, repledged, delivered or otherwise used	908.2	771.0

Certain prior period amounts for both collateral and pledged assets (including the corresponding pledged assets parenthetical disclosure for trading assets and other assets on the Consolidated balance sheets) have been revised to conform with the current period presentation.

Note 22 - Litigation

Contingencies

As of June 30, 2018, the Firm and its subsidiaries and affiliates are defendants or putative defendants in numerous legal proceedings, including private, civil litigations and regulatory/government investigations. The litigations range from individual actions involving a single plaintiff to class action lawsuits with potentially millions of class members. Investigations involve both formal and informal proceedings, by both governmental agencies and self-regulatory organizations. These legal proceedings are at varying stages of adjudication, arbitration or investigation, and involve each of the Firm's lines of business and geographies and a wide variety of claims (including common law tort and contract claims and statutory antitrust, securities and consumer protection claims), some of which present novel legal theories.

The Firm believes the estimate of the aggregate range of reasonably possible losses, in excess of reserves established, for its legal proceedings is from \$0 to approximately \$1.7 billion at June 30, 2018. This estimated aggregate range of reasonably possible losses was based upon currently available information for those proceedings in which the Firm believes that an estimate of reasonably possible loss can be made. For certain matters, the Firm does not believe that such an estimate can be made, as of that date. The Firm's estimate of the aggregate range of reasonably possible losses involves significant judgment, given:

- the number, variety and varying stages of the proceedings, including the fact that many are in preliminary stages,
- the existence in many such proceedings of multiple defendants, including the Firm, whose share of liability (if any) has yet to be determined,
- the numerous yet-unresolved issues in many of the proceedings, including issues regarding class certification and the scope of many of the claims, and
- the attendant uncertainty of the various potential outcomes of such proceedings, including where the Firm has made assumptions concerning future rulings by the court or other adjudicator, or about the behavior or incentives of adverse parties or regulatory authorities, and those assumptions prove to be incorrect.

In addition, the outcome of a particular proceeding may be a result which the Firm did not take into account in its estimate because the Firm had deemed the likelihood of that outcome to be remote. Accordingly, the Firm's estimate of the aggregate range of reasonably possible losses will change from time to time, and actual losses may vary significantly.

Set forth below are descriptions of the Firm's material legal proceedings.

American Depositary Receipts Pre-Release Inquiry. The Staff of the U.S. Securities and Exchange Commission's Enforcement Division has been investigating depositary banks and broker-dealers, including the Firm, in connection with activity relating to pre-released American Depositary Receipts. The Staff's investigation focuses on the period of 2011 to 2015. The Firm has been cooperating with this investigation.

Foreign Exchange Investigations and Litigation. The Firm previously reported settlements with certain government authorities relating to its foreign exchange ("FX") sales and trading activities and controls related to those activities. FXrelated investigations and inquiries by government authorities, including competition authorities, are ongoing, and the Firm is cooperating with and working to resolve those matters. In May 2015, the Firm pleaded guilty to a single violation of federal antitrust law. In January 2017, the Firm was sentenced, with judgment entered thereafter and a term of probation ending in January 2020. The Department of Labor has granted the Firm a five-year exemption of disqualification that allows the Firm and its affiliates to continue to rely on the Qualified Professional Asset Manager exemption under the Employee Retirement Income Security Act ("ERISA") until January 2023. The Firm will need to reapply in due course for a further exemption to cover the remainder of the ten-year disqualification period. Separately, in February 2017 the South Africa Competition Commission referred its FX investigation of the Firm and other banks to the South Africa Competition Tribunal, which is conducting civil proceedings concerning that matter.

The Firm is also one of a number of foreign exchange dealers defending a class action filed in the United States District Court for the Southern District of New York by U.S.based plaintiffs, principally alleging violations of federal antitrust laws based on an alleged conspiracy to manipulate foreign exchange rates (the "U.S. class action"). In January 2015, the Firm entered into a settlement agreement in the U.S. class action. Following this settlement, a number of additional putative class actions were filed seeking damages for persons who transacted FX futures and options on futures (the "exchanged-based actions"), consumers who purchased foreign currencies at allegedly inflated rates (the "consumer action"), participants or beneficiaries of qualified ERISA plans (the "ERISA actions"), and purported indirect purchasers of FX instruments (the "indirect purchaser action"). Since then, the Firm has entered into a revised settlement agreement to resolve the consolidated U.S. class action, including the exchange-based actions. The Court granted final approval of that settlement agreement in May 2018. Certain members of the settlement class have filed requests to the Court to be excluded from the class.

The District Court has dismissed one of the ERISA actions, and the United States Court of Appeals for the Second Circuit affirmed that dismissal in July 2018. The District Court has also dismissed the indirect purchaser action, and the plaintiffs have sought leave to replead their complaint. The consumer action and a second ERISA action remain pending in the District Court.

General Motors Litigation. JPMorgan Chase Bank, N.A. participated in, and was the Administrative Agent on behalf of a syndicate of lenders on, a \$1.5 billion syndicated Term Loan facility ("Term Loan") for General Motors Corporation ("GM"). In July 2009, in connection with the GM bankruptcy proceedings, the Official Committee of Unsecured Creditors of Motors Liquidation Company ("Creditors Committee") filed a lawsuit against JPMorgan Chase Bank, N.A., in its individual capacity and as Administrative Agent for other lenders on the Term Loan, seeking to hold the underlying lien invalid based on the filing of a UCC-3 termination statement relating to the Term Loan. In January 2015, following several court proceedings, the United States Court of Appeals for the Second Circuit reversed the Bankruptcy Court's dismissal of the Creditors Committee's claim and remanded the case to the Bankruptcy Court with instructions to enter partial summary judgment for the Creditors Committee as to the termination statement. The proceedings in the Bankruptcy Court continue with respect to, among other things, additional defenses asserted by JPMorgan Chase Bank, N.A. and the value of additional collateral on the Term Loan that was unaffected by the filing of the termination statement at issue. In connection with that additional collateral, a trial in the Bankruptcy Court regarding the value of certain representative assets concluded in May 2017, and a ruling was issued in September 2017. The Bankruptcy Court found that 33 of the 40 representative assets are fixtures and that these fixtures generally should be valued on a "going concern" basis. The Creditors Committee is seeking leave to appeal the Bankruptcy Court's ruling that the fixtures should be valued on a "going concern" basis rather than on a liquidation basis. In addition, certain Term Loan lenders filed cross-claims in the Bankruptcy Court against JPMorgan Chase Bank, N.A. seeking indemnification and asserting various claims. The parties have engaged in mediation concerning, among other things, the characterization and value of the remaining additional collateral, in light of the Bankruptcy Court's ruling regarding the representative assets, as well as other issues, including the cross-claims. In July 2018, the parties informed the Bankruptcy Court that, at this time, they do not believe that they will be able to reach a global settlement of the adversary proceeding through mediation, and that they intend to present the Bankruptcy Court with a proposed schedule for ongoing litigation. The parties will continue to mediate specific disputes involving certain issues, principally relating to whether certain of the additional collateral should be characterized as fixtures.

Interchange Litigation. A group of merchants and retail associations filed a series of class action complaints alleging that Visa and MasterCard, as well as certain banks, conspired to set the price of credit and debit card interchange fees and enacted respective rules in violation of antitrust laws. The parties settled the cases for a cash payment, a temporary reduction of credit card interchange, and modifications to certain credit card network rules. In December 2013, the District Court granted final approval of the settlement.

A number of merchants appealed the settlement to the United States Court of Appeals for the Second Circuit, which, in June 2016, vacated the District Court's certification of the class action and reversed the approval of the class settlement. In March 2017, the U.S. Supreme Court declined petitions seeking review of the decision of the Court of Appeals. The case was remanded to the District Court for further proceedings consistent with the appellate decision. The original class action was divided into two separate actions, one seeking primarily monetary relief and the other seeking primarily injunctive relief. The parties to the class action seeking monetary relief have reached a settlement agreement in principle, subject to documentation and court approval, and are engaged in ongoing negotiations.

In addition, certain merchants have filed individual actions raising similar allegations against Visa and MasterCard, as well as against the Firm and other banks, and those actions are proceeding.

LIBOR and Other Benchmark Rate Investigations and Litigation. JPMorgan Chase has received subpoenas and requests for documents and, in some cases, interviews, from federal and state agencies and entities, including the U.S. Commodity Futures Trading Commission ("CFTC") and various state attorneys general, as well as the European Commission ("EC"), the Swiss Competition Commission ("ComCo") and other regulatory authorities and banking associations around the world relating primarily to the process by which interest rates were submitted to the British Bankers Association ("BBA") in connection with the setting of the BBA's London Interbank Offered Rate ("LIBOR") for various currencies, principally in 2007 and 2008. Some of the inquiries also relate to similar processes by which information on rates was submitted to the European Banking Federation ("EBF") in connection with the setting of the EBF's Euro Interbank Offered Rates ("EURIBOR") and to the Japanese Bankers' Association for the setting of Tokyo Interbank Offered Rates ("TIBOR") during similar time periods, as well as processes for the setting of U.S. dollar ISDAFIX rates and other reference rates in various parts of the world during similar time periods, including through 2012. The Firm continues to cooperate with these investigations to the extent that they are ongoing. The Firm has recently reached a resolution with the CFTC concerning the CFTC's U.S. dollar ISDAFIXrelated investigation. As previously reported, the Firm has resolved EC inquiries relating to Yen LIBOR and Swiss Franc

LIBOR. In December 2016, the Firm resolved ComCo inquiries relating to these same rates. ComCo's investigation relating to EURIBOR, to which the Firm and other banks are subject, continues. In December 2016, the EC issued a decision against the Firm and other banks finding an infringement of European antitrust rules relating to EURIBOR. The Firm has filed an appeal of that decision with the European General Court, and that appeal is pending.

In addition, the Firm has been named as a defendant along with other banks in a series of individual and putative class actions filed in various United States District Courts. These actions have been filed, or consolidated for pre-trial purposes, in the United States District Court for the Southern District of New York. In these actions, plaintiffs make varying allegations that in various periods, starting in 2000 or later, defendants either individually or collectively manipulated various benchmark rates by submitting rates that were artificially low or high. Plaintiffs allege that they transacted in loans, derivatives or other financial instruments whose values are affected by changes in these rates and assert a variety of claims including antitrust claims seeking treble damages. These matters are in various stages of litigation.

The Firm has agreed to settle putative class actions related to exchange-traded Eurodollar futures contracts, Swiss franc LIBOR, the Singapore Interbank Offered Rate, the Singapore Swap Offer Rate and the Australian Bank Bill Swap Reference Rate. Those settlements are all subject to further documentation and court approval.

In an action related to EURIBOR, the District Court dismissed all claims except a single antitrust claim and two common law claims, and dismissed all defendants except the Firm and Citibank.

In actions related to U.S. dollar LIBOR, the District Court dismissed certain claims, including antitrust claims brought by some plaintiffs whom the District Court found did not have standing to assert such claims, and permitted antitrust claims, claims under the Commodity Exchange Act and common law claims to proceed. The plaintiffs whose antitrust claims were dismissed for lack of standing have filed an appeal. In February 2018, the District Court (i) granted class certification with respect to certain antitrust claims related to bonds and interest rate swaps sold directly by the defendants, (ii) denied class certification with respect to state common law claims brought by the holders of those bonds and swaps and (iii) denied class certification with respect to two other putative class actions related to exchange-traded Eurodollar futures contracts and LIBORbased loans held by plaintiff lending institutions. The Firm and another defendant have petitioned for leave to appeal the class certification of the antitrust claims related to bonds and swaps, and plaintiffs have petitioned for leave to appeal the denial of class certification as to exchangetraded Eurodollar futures contracts. In July 2018, the United States Court of Appeals for the Second Circuit denied

the plaintiff lending institutions' petition for leave to appeal the denial of their motion for class certification.

In an action related to the Singapore Interbank Offered Rate and the Singapore Swap Offer Rate, the District Court dismissed without prejudice all claims except a single antitrust claim, and dismissed without prejudice all defendants except the Firm, Bank of America and Citibank. The plaintiffs filed an amended complaint in September 2017, which the Firm and other defendants have moved to dismiss.

The Firm is one of the defendants in a number of putative class actions alleging that defendant banks and ICAP conspired to manipulate the U.S. dollar ISDAFIX rates. In April 2016, the Firm settled this litigation, along with certain other banks. Those settlements have been preliminarily approved by the Court.

Municipal Derivatives Litigation. Several civil actions were commenced in New York and Alabama courts against the Firm relating to certain Jefferson County, Alabama (the "County") warrant underwritings and swap transactions. The claims in the civil actions generally alleged that the Firm made payments to certain third parties in exchange for being chosen to underwrite more than \$3.0 billion in warrants issued by the County and to act as the counterparty for certain swaps executed by the County. The County filed for bankruptcy in November 2011. In June 2013, the County filed a Chapter 9 Plan of Adjustment, as amended (the "Plan of Adjustment"), which provided that all the above-described actions against the Firm would be released and dismissed with prejudice. In November 2013, the Bankruptcy Court confirmed the Plan of Adjustment, and in December 2013, certain sewer rate payers filed an appeal challenging the confirmation of the Plan of Adjustment. All conditions to the Plan of Adjustment's effectiveness, including the dismissal of the actions against the Firm, were satisfied or waived and the transactions contemplated by the Plan of Adjustment occurred in December 2013. Accordingly, all the above-described actions against the Firm have been dismissed pursuant to the terms of the Plan of Adjustment. The appeal of the Bankruptcy Court's order confirming the Plan of Adjustment remains pending.

Petters Bankruptcy and Related Matters. JPMorgan Chase and certain of its affiliates, including One Equity Partners ("OEP"), were named as defendants in several actions filed in connection with the receivership and bankruptcy proceedings pertaining to Thomas J. Petters and certain affiliated entities (collectively, "Petters") and the Polaroid Corporation. The principal actions against JPMorgan Chase and its affiliates were brought by a court-appointed receiver for Petters and the trustees in bankruptcy proceedings for three Petters entities. These actions generally sought to avoid certain putative transfers in connection with (i) the 2005 acquisition by Petters of Polaroid, which at the time was majority-owned by OEP; (ii) two credit facilities that JPMorgan Chase and other financial institutions entered

into with Polaroid; and (iii) a credit line and investment accounts held by Petters. In January 2017, the Court substantially denied the defendants' motion to dismiss an amended complaint filed by the plaintiffs. In October 2017, JPMorgan Chase and its affiliates reached an agreement to settle the litigation brought by the Petters bankruptcy trustees, or their successors, and the receiver for Thomas J. Petters. The settlement has received Court approval.

Wendel. Since 2012, the French criminal authorities have been investigating a series of transactions entered into by senior managers of Wendel Investissement ("Wendel") during the period from 2004 through 2007 to restructure their shareholdings in Wendel. JPMorgan Chase Bank, N.A., Paris branch provided financing for the transactions to a number of managers of Wendel in 2007. JPMorgan Chase has cooperated with the investigation. The investigating judges issued an ordonnance de renvoi in November 2016, referring JPMorgan Chase Bank, N.A. to the French tribunal correctionnel for alleged complicity in tax fraud. No date for trial has been set by the court. The Firm has been successful in legal challenges made to the Court of Cassation, France's highest court, with respect to the criminal proceedings. In January 2018, the Paris Court of Appeal issued a decision cancelling the mise en examen of JPMorgan Chase Bank, N.A. The Firm is requesting clarification from the Court of Cassation concerning the Court of Appeal's decision before seeking direction on next steps in the criminal proceedings. In addition, a number of the managers have commenced civil proceedings against JPMorgan Chase Bank, N.A. The claims are separate, involve different allegations and are at various stages of proceedings.

* *

In addition to the various legal proceedings discussed above, JPMorgan Chase and its subsidiaries are named as defendants or are otherwise involved in a substantial number of other legal proceedings. The Firm believes it has meritorious defenses to the claims asserted against it in its currently outstanding legal proceedings and it intends to defend itself vigorously. Additional legal proceedings may be initiated from time to time in the future.

The Firm has established reserves for several hundred of its currently outstanding legal proceedings. In accordance with the provisions of U.S. GAAP for contingencies, the Firm accrues for a litigation-related liability when it is probable that such a liability has been incurred and the amount of the loss can be reasonably estimated. The Firm evaluates its outstanding legal proceedings each quarter to assess its litigation reserves, and makes adjustments in such reserves, upwards or downward, as appropriate, based on management's best judgment after consultation with counsel. The Firm's legal expense for litigation and investigations was \$0 million and \$61 million for the three months ended June 30, 2018 and 2017, respectively. There is no assurance that the Firm's litigation reserves will not need to be adjusted in the future.

In view of the inherent difficulty of predicting the outcome of legal proceedings, particularly where the claimants seek very large or indeterminate damages, or where the matters present novel legal theories, involve a large number of parties or are in early stages of discovery, the Firm cannot state with confidence what will be the eventual outcomes of the currently pending matters, the timing of their ultimate resolution or the eventual losses, fines, penalties or consequences related to those matters. JPMorgan Chase believes, based upon its current knowledge and after consultation with counsel, consideration of the material legal proceedings described above and after taking into account its current litigation reserves and its estimated aggregate range of possible losses, that the other legal proceedings currently pending against it should not have a material adverse effect on the Firm's consolidated financial condition. The Firm notes, however, that in light of the uncertainties involved in such proceedings, there is no assurance that the ultimate resolution of these matters will not significantly exceed the reserves it has currently accrued or that a matter will not have material reputational consequences. As a result, the outcome of a particular matter may be material to JPMorgan Chase's operating results for a particular period, depending on, among other factors, the size of the loss or liability imposed and the level of JPMorgan Chase's income for that period.

Note 23 - Business segments

The Firm is managed on a line of business basis. There are four major reportable business segments - Consumer & Community Banking, Corporate & Investment Bank, Commercial Banking and Asset & Wealth Management. In addition, there is a Corporate segment.

The business segments are determined based on the products and services provided, or the type of customer served, and they reflect the manner in which financial information is currently evaluated by management. Results of these lines of business are presented on a managed basis. For a further discussion concerning JPMorgan Chase's business segments, refer to Segment results below, and Note 31 of JPMorgan Chase's 2017 Annual Report.

Segment results

The following table provides a summary of the Firm's segment results as of or for the three and six months ended June 30, 2018 and 2017, on a managed basis. The Firm's definition of managed basis starts with the reported U.S. GAAP results and includes certain reclassifications to present total net revenue for the Firm (and each of the

reportable business segments) on an FTE basis. Accordingly, revenue from investments that receive tax credits and tax-exempt securities is presented in the managed results on a basis comparable to taxable investments and securities. This allows management to assess the comparability of revenue from year-to-year arising from both taxable and tax-exempt sources. The corresponding income tax impact related to tax-exempt items is recorded within income tax expense. These adjustments have no impact on net income as reported by the Firm as a whole or by the lines of business.

Business segment capital allocation

The amount of capital assigned to each business is referred to as equity. On at least an annual basis, the Firm assesses the level of capital required for each line of business as well as the assumptions and methodologies used to allocate capital. For additional information on business segment capital allocation, refer to Line of business equity on pages 88-89 of JPMorgan Chase's 2017 Annual Report.

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

Net income in 2018 for the business segments reflects the favorable impact of the reduction in the U.S. federal statutory income tax rate as a result of the TCJA.

Segment results and reconciliation(a)

As of or for the three months ended June 30,	Consu Communi			Corpo Investm			Commerc	ial B	anking	А	sset & Wealt	h Ma	anagement
(in millions, except ratios)	2018		2017	2018		2017	2018		2017		2018		2017
Noninterest revenue	\$ 3,748	\$	3,684	\$ 7,532	\$	6,480	\$ 633	\$	583	\$	2,687	\$	2,591
Net interest income	8,749		7,728	2,391		2,445	1,683		1,505		885		846
Total net revenue	12,497		11,412	9,923		8,925	2,316		2,088		3,572		3,437
Provision for credit losses	1,108		1,394	58		(53)	43		(130)		2		4
Noninterest expense	6,879		6,500	5,403		4,877	844		790		2,566		2,417
Income before income tax expense	4,510		3,518	4,462		4,101	1,429		1,428		1,004		1,016
Income tax expense	1,098		1,295	1,264		1,391	342		526		249		392
Net income	\$ 3,412	\$	2,223	\$ 3,198	\$	2,710	\$ 1,087	\$	902	\$	755	\$	624
Average equity	\$ 51,000	\$	51,000	\$ 70,000	\$	70,000	\$ 20,000	\$	20,000	\$	9,000	\$	9,000
Total assets	552,674		529,859	908,954		847,377	220,232		220,676		161,474		147,508
Return on equity	26%	.	17%	17%	.	15%	21%	ò	17%		33%	.	27%
Overhead ratio	55		57	54		55	36		38		72		70

As of or for the three months ended June 30.	Corporate	e	Reconciling Ite	ms ^(a)	То	tal
(in millions, except ratios)	2018	2017	2018	2017	2018	2017
Noninterest revenue	\$ 142 \$	781	\$ (474) \$	(596)	\$ 14,268	\$ 13,523
Net interest income	(62)	23	(161) \$	(339)	13,485	12,208
Total net revenue	80	804	(635) \$	(935)	27,753	25,731
Provision for credit losses	(1)	_	_	_	1,210	1,215
Noninterest expense	279	183	_	-	15,971	14,767
Income/(loss) before income tax expense/(benefit)	 (198)	621	(635)	(935)	10,572	9,749
Income tax expense/(benefit)	(62)	51	(635)	(935)	2,256	2,720
Net income/(loss)	\$ (136) \$	570	\$ - \$	-	\$ 8,316	\$ 7,029
Average equity	\$ 78,901 \$	80,200	\$ - \$	_	\$ 228,901	\$ 230,200
Total assets	746,716	817,754	NA	NA	2,590,050	2,563,174
Return on equity	NM	NM	NM	NM	14%	12%
Overhead ratio	NM	NM	NM	NM	58	57

⁽a) Segment managed results reflect revenue on an FTE basis with the corresponding income tax impact recorded within income tax expense/(benefit). These adjustments are eliminated in reconciling items to arrive at the Firm's reported U.S. GAAP results.

Segment results and reconciliation(a)

As of or for the six months ended June 30.	Consumer & Community Banking			Corporate & Investment Bank				Commercial Banking				Asset & Wealth Management			
(in millions, except ratios)	2018		2017		2018		2017	2018		2017		2018		2017	
Noninterest revenue	\$ 7,887	\$	7,001	\$	15,449	\$	13,479	\$ 1,182	\$	1,182	\$	5,317	\$	5,060	
Net interest income	17,207		15,381		4,957		5,045	3,300		2,924		1,761		1,665	
Total net revenue	25,094		22,382		20,406		18,524	4,482		4,106		7,078		6,725	
Provision for credit losses	2,425		2,824		(100)		(149)	38		(167)		17		22	
Noninterest expense	 13,788		12,895		11,062		10,061	1,688		1,615		5,147		5,198	
Income before income tax expense	8,881		6,663		9,444		8,612	2,756		2,658		1,914		1,505	
Income tax expense	2,143		2,452		2,272		2,661	644		957		389		496	
Net income	\$ 6,738	\$	4,211	\$	7,172	\$	5,951	\$ 2,112	\$	1,701	\$	1,525	\$	1,009	
Average equity	\$ 51,000	\$	51,000	\$	70,000	\$	70,000	\$ 20,000	\$	20,000	\$	9,000	\$	9,000	
Total assets	552,674		529,859		908,954		847,377	220,232		220,676		161,474		147,508	
Return on equity	26%	Ď	16%		20%)	16%	20%	Ď	16%		33%	•	22%	
Overhead ratio	55		58		54		54	38		39		73		77	

As of or for the six months ended June 30,		Corporat	e	Reconciling Ite	Total				
(in millions, except ratios)		2018	2017	2018	2017		2018		2017
Noninterest revenue	\$	(43) \$	854	\$ (929) \$	(1,178)	\$	28,863	\$	26,398
Net interest income		(109)	(75)	(319) \$	(668)		26,797		24,272
Total net revenue		(152)	779	(1,248) \$	(1,846)		55,660		50,670
Provision for credit losses		(5)	_	_	_		2,375		2,530
Noninterest expense		366	281	_	-		32,051		30,050
Income/(loss) before income tax expense/(benefit)		(513)	498	(1,248)	(1,846)		21,234		18,090
Income tax expense/(benefit)		6	(107)	(1,248)	(1,846)		4,206		4,613
Net income/(loss)	\$	(519) \$	605	\$ - \$	-	\$	17,028	\$	13,477
Average equity	\$	78,261 \$	78,959	\$ - \$	_	\$ 2	228,261	\$	228,959
Total assets		746,716	817,754	NA	NA	2,5	590,050	2	,563,174
Return on equity		NM	NM	NM	NM		14%)	11%
Overhead ratio		NM	NM	NM	NM		58		59

⁽a) Segment managed results reflect revenue on an FTE basis with the corresponding income tax impact recorded within income tax expense/(benefit). These adjustments are eliminated in reconciling items to arrive at the Firm's reported U.S. GAAP results.



Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of JPMorgan Chase & Co.:

Results of Review of Financial Statements

We have reviewed the accompanying consolidated balance sheet of JPMorgan Chase & Co. and its subsidiaries (the "Firm") as of June 30, 2018, and the related consolidated statements of income and comprehensive income for the three-month and six-month periods ended June 30, 2018 and 2017 and the consolidated statements of changes in stockholders' equity and cash flows for the six-month periods ended June 30, 2018 and 2017, including the related notes (collectively referred to as the "interim financial statements"). Based on our reviews, we are not aware of any material modifications that should be made to the accompanying interim financial statements for them 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), the consolidated balance sheet of the Firm as of December 31, 2017, and the related consolidated statements of income, comprehensive income, changes in stockholders' equity and cash flows for the year then ended (not presented herein), and in our report dated February 27, 2018, we expressed an unqualified opinion on those consolidated financial statements. In our opinion, the information set forth in the accompanying consolidated balance sheet information as of December 31, 2017, is fairly stated, in all material respects, in relation to the consolidated balance sheet from which it has been derived.

Basis for Review Results

These interim financial statements are the responsibility of the Firm's management. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("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 review 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.

Procesote Shouse Ceopers LLP

August 1, 2018

JPMorgan Chase & Co. Consolidated average balance sheets, interest and rates (Taxable-equivalent interest and rates; in millions, except rates)

	Three mo	nths ended Ju	ıne 30, 2018	Three months ended June 30, 2017				
	Average balance	Interest ^(f)	Rate (annualized)	Average balance	Interest ^(f)	Rate (annualized)		
Assets								
Deposits with banks	\$ 425,942	\$ 1,543	1.45%	\$ 439,142	\$ 1,018	0.93%		
Federal funds sold and securities purchased under resale agreements	205,001	807	1.58	193,302	528	1.10		
Securities borrowed	112,464	148	0.53	90,151	(21) ^(h)	(0.09)		
Trading assets - debt instruments	256,526	2,127	3.33	234,809	1,834	3.13		
Taxable securities	189,419	1,383	2.93	229,196	1,410	2.47		
Nontaxable securities ^(a)	42,588	494	4.65	45,499	720	6.35		
Total investment securities	232,007	1,877	3.24 ^(g)	274,695	2,130	3.11 ^(g)		
Loans	939,675	11,680	4.99	904,969	10,065	4.46		
All other interest-earning assets(b)	50,662	848	6.72	40,041	435	4.35		
Total interest-earning assets	2,222,277	19,030	3.43	2,177,109	15,989	2.95		
Allowance for loan losses	(13,223)	1		(13,350)				
Cash and due from banks	22,050			19,797				
Trading assets - equity instruments	112,142			126,127				
Trading assets - derivative receivables	60,978			58,250				
Goodwill, MSRs and other intangible assets	54,616			53,902				
Other assets	154,129			137,401				
Total assets	\$ 2,612,969			\$ 2,559,236				
Liabilities								
Interest-bearing deposits	\$ 1,059,357	\$ 1,340	0.51%	\$ 1,006,008	\$ 629	0.25%		
Federal funds purchased and securities loaned or sold under repurchase agreements	192,136	759	1.58	196,331	387	0.79		
Short-term borrowings ^(c)	62,339	260	1.67	43,159	96	0.89		
Trading liabilities - debt and other interest-bearing liabilities (d)(e)	180,879	901	2.00	173,373	515	1.19		
Beneficial interests issued by consolidated VIEs	20,906	121	2.33	34,083	128	1.51		
Long-term debt	275,645	2,003	2.91	295,868	1,687	2.29		
Total interest-bearing liabilities	1,791,262	5,384	1.21	1,748,822	3,442	0.79		
Noninterest-bearing deposits	401,138			404,121				
Trading liabilities - equity instruments(e)	34,593			19,346				
Trading liabilities - derivative payables	42,168			44,740				
All other liabilities, including the allowance for lending-related commitments	88,839			85,939				
Total liabilities	2,358,000			2,302,968				
Stockholders' equity								
Preferred stock	26,068			26,068				
Common stockholders' equity	228,901			230,200				
Total stockholders' equity	254,969			256,268				
Total liabilities and stockholders' equity	\$ 2,612,969			\$ 2,559,236				
Interest rate spread			2.22%			2.16%		
Net interest income and net yield on interest-earning assets		\$ 13,646	2.46		\$ 12,547	2.31		

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

- (a) Represents securities which are tax-exempt for U.S. federal income tax purposes.
- (b) Includes held-for-investment margin loans, which are classified in accrued interest and accounts receivable, and all other interest-earning assets, which are classified in other assets on the Consolidated balance sheets.
- (c) Includes commercial paper.
- (d) Other interest-bearing liabilities include brokerage customer payables.
- (e) The combined balance of trading liabilities debt and equity instruments were \$111.0 billion and \$90.5 billion for the three months ended June 30, 2018 and 2017, respectively.
- (f) Interest includes the effect of certain related hedging derivatives. Taxable-equivalent amounts are used where applicable.
- (g) For the three months ended June 30, 2018 and 2017, the annualized rates for securities, based on amortized cost, were 3.27% and 3.15%, respectively; this does not give effect to changes in fair value that are reflected in AOCI.
- (h) Negative interest income and yield is related to client-driven demand for certain securities combined with the impact of low interest rates; this is matched book activity and the negative interest expense on the corresponding securities loaned is recognized in interest expense and reported within trading liabilities debt and other interest-bearing liabilities

JPMorgan Chase & Co. Consolidated average balance sheets, interest and rates (Taxable-equivalent interest and rates; in millions, except rates)

	Six mont	hs ended Jun	e 30, 2018	Six months ended June 30, 2017					
	Average balance	Interest ^(f)	Rate (annualized)	Average balance	Interest ^(f)	Rate (annualized)			
Assets									
Deposits with banks	\$ 424,880	\$ 2,864	1.36%	\$ 431,486	\$ 1,743	0.81%			
Federal funds sold and securities purchased under resale agreements	201,700	1,538	1.54	195,123	1,054	1.09			
Securities borrowed	111,106	210	0.38	92,747	(65) ^(h)	(0.14)			
Trading assets - debt instruments	256,284	4,245	3.34	230,330	3,717	3.25			
Taxable securities	192,511	2,696	2.82	234,967	2,840	2.44			
Nontaxable securities ^(a)	43,348	1,004	4.67	45,133	1,410	6.30			
Total investment securities	235,859	3,700	3.16 ^(g)	280,100	4,250	3.06 ^(g)			
Loans	933,148	22,797	4.93	898,473	19,888	4.46			
All other interest-earning assets(b)	49,920	1,529	6.18	40,796	773	3.82			
Total interest-earning assets	2,212,897	36,883	3.36	2,169,055	31,360	2.92			
Allowance for loan losses	(13,352)	١		(13,536)					
Cash and due from banks	22,111			19,858					
Trading assets - equity instruments	109,927			120,735					
Trading assets - derivative receivables	60,737			59,816					
Goodwill, MSRs and other intangible assets	54,659			54,075					
Other assets	152,602			136,268					
Total assets	\$ 2,599,581			\$ 2,546,271					
Liabilities									
Interest-bearing deposits	\$ 1,052,975	\$ 2,400	0.46%	\$ 996,067	\$ 1,112	0.23%			
Federal funds purchased and securities loaned or sold under repurchase agreements	194,113	1,337	1.39	192,990	680	0.71			
Short-term borrowings ^(c)	59,984	469	1.58	39,859	169	0.85			
Trading liabilities – debt and other interest-bearing liabilities $^{\left(0\right) \left(0\right) }$	176,210	1,561	1.79	175,088	920	1.06			
Beneficial interests issued by consolidated VIEs	22,226	244	2.22	36,416	263	1.46			
Long-term debt	277,315	3,756	2.73	294,056	3,276	2.25			
Total interest-bearing liabilities	1,782,823	9,767	1.10	1,734,476	6,420	0.75			
Noninterest-bearing deposits	400,317			404,831					
Trading liabilities - equity instruments(e)	31,628			20,204					
Trading liabilities - derivative payables	41,958			46,547					
All other liabilities, including the allowance for lending-related commitments	88,526			85,186					
Total liabilities	2,345,252			2,291,244					
Stockholders' equity									
Preferred stock	26,068			26,068					
Common stockholders' equity	228,261			228,959					
Total stockholders' equity	254,329			255,027					
Total liabilities and stockholders' equity	\$ 2,599,581			\$ 2,546,271					
Interest rate spread			2.26%			2.17%			
Net interest income and net yield on interest-earning assets		\$ 27,116	2.47		\$ 24,940	2.32			

Effective January 1, 2018, the Firm adopted several new accounting standards. Certain of the new accounting standards were applied retrospectively and, accordingly, prior period amounts were revised. For additional information, refer to Note 1.

- (a) Represents securities which are tax-exempt for U.S. federal income tax purposes.
- (b) Includes held-for-investment margin loans, which are classified in accrued interest and accounts receivable, and all other interest-earning assets included in other assets on the Consolidated balance sheets.
- (c) Includes commercial paper.
- (d) Other interest-bearing liabilities include brokerage customer payables.
- (e) The combined balance of trading liabilities debt and equity instruments were \$104.5 billion and \$92.3 billion for the six months ended June 30, 2018 and 2017, respectively.
- (f) Interest includes the effect of certain related hedging derivatives. Taxable-equivalent amounts are used where applicable.
- (g) For the six months ended June 30, 2018 and 2017, the annualized rates for securities, based on amortized cost, were 3.19% and 3.09%, respectively; this does not give effect to changes in fair value that are reflected in AOCI.
- (h) Negative interest income and yield is related to client-driven demand for certain securities combined with the impact of low interest rates; this is matched book activity and the negative interest expense on the corresponding securities loaned is recognized in interest expense and reported within trading liabilities debt and other interest-bearing liabilities

2017 Annual Report or 2017 Form 10-K: Annual report on Form 10-K for year ended December 31, 2017, filed with the U.S. Securities and Exchange Commission.

ABS: Asset-backed securities

Active foreclosures: Loans referred to foreclosure where formal foreclosure proceedings are ongoing. Includes both judicial and non-judicial states.

AFS: Available-for-sale

Allowance for loan losses to total loans: represents periodend allowance for loan losses divided by retained loans.

AOCI: Accumulated other comprehensive income/(loss)

ARM(s): Adjustable rate mortgage(s) **AWM:** Asset & Wealth Management

Beneficial interests issued by consolidated VIEs: represents the interest of third-party holders of debt, equity securities, or other obligations, issued by VIEs that JPMorgan Chase consolidates.

Benefit obligation: refers to the projected benefit obligation for pension plans and the accumulated postretirement benefit obligation for OPEB plans.

BHC: Bank holding company **CB:** Commercial Banking

CBB: Consumer & Business Banking

CCAR: Comprehensive Capital Analysis and Review

CCB: Consumer & Community Banking

CCP: "Central counterparty" is a clearing house that interposes itself between counterparties to contracts traded in one or more financial markets, becoming the buyer to every seller and the seller to every buyer and thereby ensuring the future performance of open contracts. A CCP becomes counterparty to trades with market participants through novation, an open offer system, or another legally binding arrangement.

CDS: Credit default swaps **CEO:** Chief Executive Officer

CET1 Capital: Common equity Tier 1 Capital **CFTC:** Commodity Futures Trading Commission

CFO: Chief Financial Officer

Chase Bank USA, N.A.: Chase Bank USA, National Association

CIB: Corporate & Investment Bank

CIO: Chief Investment Office

Client deposits and other third party liabilities: Deposits, as well as deposits that are swept to on-balance sheet liabilities (e.g., commercial paper, federal funds purchased and securities loaned or sold under repurchase agreements) as part of client cash management programs.

CLO: Collateralized loan obligations **CLTV:** Combined loan-to-value

Collateral-dependent: A loan is considered to be collateral-dependent when repayment of the loan is expected to be provided solely by the underlying collateral, rather than by cash flows from the borrower's operations, income or other resources.

Commercial Card: provides a wide range of payment services to corporate and public sector clients worldwide through the commercial card products. Services include procurement, corporate travel and entertainment, expense management services, and business-to-business payment solutions.

Core loans: represents loans considered central to the Firm's ongoing businesses; core loans exclude loans classified as trading assets, runoff portfolios, discontinued portfolios and portfolios the Firm has an intent to exit.

Credit derivatives: Financial instruments whose value is derived from the credit risk associated with the debt of a third party issuer (the reference entity) which allow one party (the protection purchaser) to transfer that risk to another party (the protection seller). Upon the occurrence of a credit event by the reference entity, which may include, among other events, the bankruptcy or failure to pay its obligations, or certain restructurings of the debt of the reference entity, neither party has recourse to the reference entity. The protection purchaser has recourse to the protection seller for the difference between the face value of the CDS contract and the fair value at the time of settling the credit derivative contract. The determination as to whether a credit event has occurred is generally made by the relevant International Swaps and Derivatives Association ("ISDA") Determinations Committee.

Criticized: Criticized loans, lending-related commitments and derivative receivables that are classified as special mention, substandard and doubtful categories for regulatory purposes and are generally consistent with a rating of CCC+/Caa1 and below, as defined by S&P and Moody's.

CRO: Chief Risk Officer

CVA: Credit valuation adjustments **DFAST:** Dodd-Frank Act Stress Test

Dodd-Frank Act: Wall Street Reform and Consumer

Protection Act

DOJ: U.S. Department of Justice **DOL:** U.S. Department of Labor **DVA:** Debit valuation adjustment

EC: European Commission

Eligible LTD: Long-term debt satisfying certain eligibility criteria

Embedded derivatives: are implicit or explicit terms or features of a financial instrument that affect some or all of the cash flows or the value of the instrument in a manner similar to a derivative. An instrument containing such terms or features is referred to as a "hybrid." The component of the hybrid that is the non-derivative instrument is referred

to as the "host." For example, callable debt is a hybrid instrument that contains a plain vanilla debt instrument (i.e., the host) and an embedded option that allows the issuer to redeem the debt issue at a specified date for a specified amount (i.e., the embedded derivative). However, a floating rate instrument is not a hybrid composed of a fixed-rate instrument and an interest rate swap.

ERISA: Employee Retirement Income Security Act of 1974

EPS: Earnings per share

Exchange-traded derivatives: Derivative contracts that are executed on an exchange and settled via a central clearing house.

Fannie Mae: Federal National Mortgage Association

FASB: Financial Accounting Standards Board

FCA: Financial Conduct Authority **FCC:** Firmwide Control Committee

FDIA: Federal Depository Insurance Act **FDIC:** Federal Deposit Insurance Corporation

Federal Reserve: The Board of the Governors of the Federal

Reserve System

Fee share: Proportion of fee revenue based on estimates of investment banking fees generated across the industry from investment banking transactions in M&A, equity and debt underwriting, and loan syndications. Source: Dealogic, a third party provider of investment banking fee competitive analysis and volume-based league tables for the above noted industry products.

FFELP: Federal Family Education Loan Program

FFIEC: Federal Financial Institutions Examination Council

FHA: Federal Housing Administration **FHLB:** Federal Home Loan Bank

FICO score: A measure of consumer credit risk based on information in consumer credit reports produced by Fair Isaac Corporation. Because certain aged data is excluded from credit reports based on rules in the Fair Credit Reporting Act, FICO scores may not reflect all historical information about a consumer.

Firm: JPMorgan Chase & Co.

Forward points: represents the interest rate differential between two currencies, which is either added to or subtracted from the current exchange rate (i.e., "spot rate") to determine the forward exchange rate.

Freddie Mac: Federal Home Loan Mortgage Corporation

Free-standing derivatives: is a derivative contract entered into either separate and apart from any of the Firm's other financial instruments or equity transactions. Or, in conjunction with some other transaction and is legally detachable and separately exercisable.

FSB: Financial Stability Board **FTE:** Fully taxable-equivalent

FVA: Funding valuation adjustment

FX: Foreign exchange

G7: "Group of Seven nations": Countries in the G7 are Canada, France, Germany, Italy, Japan, the U.K. and the U.S.

G7 government securities: Securities issued by the government of one of the G7 nations.

Ginnie Mae: Government National Mortgage Association

GSE: Fannie Mae and Freddie Mac

GSIB: Global systemically important banks **HAMP:** Home affordable modification program

Headcount-related expense: Includes salary and benefits (excluding performance-based incentives), and other noncompensation costs related to employees.

HELOAN: Home equity loan

HELOC: Home equity line of credit

Home equity – senior lien: represents loans and commitments where JPMorgan Chase holds the first security interest on the property.

Home equity - junior lien: represents loans and commitments where JPMorgan Chase holds a security interest that is subordinate in rank to other liens.

HQLA: High quality liquid assets

HTM: Held-to-maturity

IDI: Insured depository institutions

IHC: JPMorgan Chase Holdings LLC, an intermediate holding company

Impaired loan: Impaired loans are loans measured at amortized cost, for which it is probable that the Firm will be unable to collect all amounts due, including principal and interest, according to the contractual terms of the agreement. Impaired loans include the following:

- · All wholesale nonaccrual loans
- All TDRs (both wholesale and consumer), including ones that have returned to accrual status

Investment-grade: An indication of credit quality based on JPMorgan Chase's internal risk assessment system. "Investment grade" generally represents a risk profile similar to a rating of a "BBB-"/"Baa3" or better, as defined by independent rating agencies.

IR: Interest rate

ISDA: International Swaps and Derivatives Association

JPMorgan Chase: JPMorgan Chase & Co.

JPMorgan Chase Bank, N.A.: JPMorgan Chase Bank, National Association

J.P. Morgan Securities: J.P. Morgan Securities LLC

LCR: Liquidity coverage ratio

LGD: Loss given default

LIBOR: London Interbank Offered Rate

LLC: Limited Liability Company

LOB: Line of business

Loss emergence period: represents the time period between the date at which the loss is estimated to have been incurred and the ultimate realization of that loss.

LTIP: Long-term incentive plan

LTV: "Loan-to-value ratio": For residential real estate loans, the relationship, expressed as a percentage, between the principal amount of a loan and the appraised value of the collateral (i.e., residential real estate) securing the loan.

Origination date LTV ratio

The LTV ratio at the origination date of the loan. Origination date LTV ratios are calculated based on the actual appraised values of collateral (i.e., loan-level data) at the origination date.

Current estimated LTV ratio

An estimate of the LTV as of a certain date. The current estimated LTV ratios are calculated using estimated collateral values derived from a nationally recognized home price index measured at the metropolitan statistical area ("MSA") level. These MSA-level home price indices consist of actual data to the extent available and forecasted data where actual data is not available. As a result, the estimated collateral values used to calculate these ratios do not represent actual appraised loan-level collateral values; as such, the resulting LTV ratios are necessarily imprecise and should therefore be viewed as estimates.

Combined LTV ratio

The LTV ratio considering all available lien positions, as well as unused lines, related to the property. Combined LTV ratios are used for junior lien home equity products.

Master netting agreement: A single agreement with a counterparty that permits multiple transactions governed by that agreement to be terminated or accelerated and settled through a single payment in a single currency in the event of a default (e.g., bankruptcy, failure to make a required payment or securities transfer or deliver collateral or margin when due).

Measurement alternative: Measures equity securities without readily determinable fair values at cost less impairment (if any), plus or minus observable price changes from an identical or similar investment of the same issuer.

MBS: Mortgage-backed securities

MD&A: Management's discussion and analysis

Moody's: Moody's Investor Services

Mortgage product types:

Alt-A

Alt-A loans are generally higher in credit quality than subprime loans but have characteristics that would disqualify the borrower from a traditional prime loan. Alt-A lending characteristics may include one or more of the following: (i) limited documentation; (ii) a high CLTV ratio; (iii) loans secured by non-owner occupied properties; or (iv) a debt-to-income ratio above normal limits. A substantial proportion of the Firm's Alt-A loans are those where a borrower does not provide complete documentation of his or her assets or the amount or source of his or her income.

Option ARMs

The option ARM real estate loan product is an adjustablerate mortgage loan that provides the borrower with the option each month to make a fully amortizing, interest-only or minimum payment. The minimum payment on an option ARM loan is based on the interest rate charged during the introductory period. This introductory rate is usually significantly below the fully indexed rate. The fully indexed rate is calculated using an index rate plus a margin. Once the introductory period ends, the contractual interest rate charged on the loan increases to the fully indexed rate and adjusts monthly to reflect movements in the index. The minimum payment is typically insufficient to cover interest accrued in the prior month, and any unpaid interest is deferred and added to the principal balance of the loan. Option ARM loans are subject to payment recast, which converts the loan to a variable-rate fully amortizing loan upon meeting specified loan balance and anniversary date triggers.

Prime

Prime mortgage loans are made to borrowers with good credit records who meet specific underwriting requirements, including prescriptive requirements related to income and overall debt levels. New prime mortgage borrowers provide full documentation and generally have reliable payment histories.

Subprime

Subprime loans are loans that, prior to mid-2008, were offered to certain customers with one or more high risk characteristics, including but not limited to: (i) unreliable or poor payment histories; (ii) a high LTV ratio of greater than 80% (without borrower-paid mortgage insurance); (iii) a high debt-to-income ratio; (iv) an occupancy type for the loan is other than the borrower's primary residence; or (v) a history of delinquencies or late payments on the loan.

MSA: Metropolitan statistical areas

MSR: Mortgage servicing rights

NA: Data is not applicable or available for the period presented.

Net Capital Rule: Rule 15c3-1 under the Securities Exchange Act of 1934.

Net charge-off/(recovery) rate: represents net charge-offs/ (recoveries) (annualized) divided by average retained loans for the reporting period.

Net interchange income includes the following components:

- Interchange income: A fee paid to a credit card issuer in the clearing and settlement of a sales or cash advance transaction.
- **Rewards costs:** The cost to the Firm for points earned by cardholders enrolled in credit card rewards programs.
- Partner payments: Payments to co-brand credit card partners based on the cost of loyalty program rewards earned by cardholders on credit card transactions.

Net yield on interest-earning assets: The average rate for interest-earning assets less the average rate paid for all sources of funds.

NM: Not meaningful **NOL:** Net operating loss

Nonaccrual loans: Loans for which interest income is not recognized on an accrual basis. Loans (other than credit card loans and certain consumer loans insured by U.S. government agencies) are placed on nonaccrual status when full payment of principal and interest is not expected, regardless of delinquency status, or when principal and interest has been in default for a period of 90 days or more unless the loan is both well-secured and in the process of collection. Collateral-dependent loans are typically maintained on nonaccrual status.

Nonperforming assets: Nonperforming assets include nonaccrual loans, nonperforming derivatives and certain assets acquired in loan satisfactions, predominantly real estate owned and other commercial and personal property.

OCC: Office of the Comptroller of the Currency

OCI: Other comprehensive income/(loss)

OEP: One Equity Partners **OIS:** Overnight index swap

OPEB: Other postretirement employee benefit

OTC: "Over-the-counter derivatives": Derivative contracts that are negotiated, executed and settled bilaterally between two derivative counterparties, where one or both counterparties is a derivatives dealer.

OTC cleared: "Over-the-counter cleared derivatives":Derivative contracts that are negotiated and executed bilaterally, but subsequently settled via a central clearing house, such that each derivative counterparty is only exposed to the default of that clearing house.

OTTI: Other-than-temporary impairment

Overhead ratio: Noninterest expense as a percentage of total net revenue.

Parent Company: JPMorgan Chase & Co.

Participating securities: represents unvested share-based compensation awards containing nonforfeitable rights to dividends or dividend equivalents (collectively, "dividends"), which are included in the earnings per share calculation using the two-class method. JPMorgan Chase grants restricted stock and RSUs to certain employees under its share-based compensation programs, which entitle the recipients to receive nonforfeitable dividends during the vesting period on a basis equivalent to the dividends paid to holders of common stock. These unvested awards meet the definition of participating securities. Under the two-class method, all earnings (distributed and undistributed) are allocated to each class of common stock and participating securities, based on their respective rights to receive dividends.

PCA: Prompt corrective action

PCI: "Purchased credit-impaired" loans represents certain loans that were acquired and deemed to be credit-impaired on the acquisition date in accordance with the guidance of

the FASB. The guidance allows purchasers to aggregate credit-impaired loans acquired in the same fiscal quarter into one or more pools, provided that the loans have common risk characteristics (e.g., product type, LTV ratios, FICO scores, past due status, geographic location). A pool is then accounted for as a single asset with a single composite interest rate and an aggregate expectation of cash flows.

PD: Probability of default

PRA: Prudential Regulatory Authority

Pre-provision profit/(loss): represents total net revenue less noninterest expense. The Firm believes that this financial measure is useful in assessing the ability of a lending institution to generate income in excess of its provision for credit losses.

Principal transactions revenue: Principal transactions revenue is driven by many factors, including the bid-offer spread, which is the difference between the price at which the Firm is willing to buy a financial or other instrument and the price at which the Firm is willing to sell that instrument. It also consists of realized (as a result of closing out or termination of transactions, or interim cash payments) and unrealized (as a result of changes in valuation) gains and losses on financial and other instruments (including those accounted for under the fair value option) primarily used in client-driven market-making activities and on private equity investments. In connection with its client-driven marketmaking activities, the Firm transacts in debt and equity instruments, derivatives and commodities (including physical commodities inventories and financial instruments that reference commodities). Principal transactions revenue also includes certain realized and unrealized gains and losses related to hedge accounting and specified riskmanagement activities, including: (a) certain derivatives designated in qualifying hedge accounting relationships (primarily fair value hedges of commodity and foreign exchange risk), (b) certain derivatives used for specific risk management purposes, primarily to mitigate credit risk and foreign exchange risk, and (c) other derivatives.

PSU(s): Performance share units

Receivables from customers: primarily represents margin loans to brokerage customers that are collateralized through assets maintained in the clients' brokerage accounts, as such no allowance is held against these receivables. These receivables are reported within accrued interest and accounts receivable on the Firm's Consolidated balance sheets.

Regulatory VaR: Daily aggregated VaR calculated in accordance with regulatory rules.

REO: Real estate owned

Reported basis: Financial statements prepared under U.S. GAAP, which excludes the impact of taxable-equivalent adjustments.

Retained loans: Loans that are held-for-investment (i.e. excludes loans held-for-sale and loans at fair value).

Revenue wallet: Total fee revenue based on estimates of investment banking fees generated across the industry (i.e., the revenue wallet) from investment banking transactions in M&A, equity and debt underwriting, and loan

syndications. Source: Dealogic, a third-party provider of investment banking competitive analysis and volume based league tables for the above noted industry products.

RHS: Rural Housing Service of the U.S. Department of Agriculture

ROE: Return on equity

ROTCE: Return on tangible common equity

RSU(s): Restricted stock units

RWA: "Risk-weighted assets": Basel III establishes two comprehensive approaches for calculating RWA (a Standardized approach and an Advanced approach) which include capital requirements for credit risk, market risk, and in the case of Basel III Advanced, also operational risk. Key differences in the calculation of credit risk RWA between the Standardized and Advanced approaches are that for Basel III Advanced, credit risk RWA is based on risk-sensitive approaches which largely rely on the use of internal credit models and parameters, whereas for Basel III Standardized, credit risk RWA is generally based on supervisory risk-weightings which vary primarily by counterparty type and asset class. Market risk RWA is calculated on a generally consistent basis between Basel III Standardized and Basel III Advanced.

S&P: Standard and Poor's 500 Index **SAR(s):** Stock appreciation rights **SCCL:** Single-counterparty credit limits

Scored portfolio: The scored portfolio predominantly includes residential real estate loans, credit card loans and certain auto and business banking loans where credit loss estimates are based on statistical analysis of credit losses over discrete periods of time. The statistical analysis uses portfolio modeling, credit scoring and decision-support tools.

SEC: U.S. Securities and Exchange Commission

Seed capital: Initial JPMorgan capital invested in products, such as mutual funds, with the intention of ensuring the fund is of sufficient size to represent a viable offering to clients, enabling pricing of its shares, and allowing the manager to develop a track record. After these goals are achieved, the intent is to remove the Firm's capital from the investment.

Single-name: Single reference-entities **SLR:** Supplementary leverage ratio

SMBS: Stripped mortgage-backed securities

SPEs: Special purpose entities

Structural interest rate risk: represents interest rate risk of the non-trading assets and liabilities of the Firm.

Structured notes: Structured notes are predominantly financial instruments containing embedded derivatives. Where present, the embedded derivative is the primary driver of risk.

Suspended foreclosures: Loans referred to foreclosure where formal foreclosure proceedings have started but are currently on hold, which could be due to bankruptcy or loss mitigation. Includes both judicial and non-judicial states.

Taxable-equivalent basis: In presenting managed results, the total net revenue for each of the business segments and the Firm is presented on a tax-equivalent basis. Accordingly, revenue from investments that receive tax credits and tax-exempt securities is presented in the managed results on a basis comparable to taxable investments and securities; the corresponding income tax impact related to tax-exempt items is recorded within income tax expense.

TBVPS: Tangible book value per share

TCE: Tangible common equity

TDR: "Troubled debt restructuring" is deemed to occur when the Firm modifies the original terms of a loan agreement by granting a concession to a borrower that is experiencing financial difficulty.

TLAC: Total Loss Absorbing Capacity

U.K.: United Kingdom

Unaudited: Financial statements and information that have not been subjected to auditing procedures sufficient to permit an independent certified public accountant to express an opinion.

U.S.: United States of America

U.S. GAAP: Accounting principles generally accepted in the United States of America.

U.S. GSE(s): "**U.S. government-sponsored enterprises**": In the U.S., GSEs are quasi-governmental, privately-held entities established by Congress to improve the flow of credit to specific sectors of the economy and provide certain essential services to the public. U.S. GSEs include Fannie Mae and Freddie Mac, but do not include Ginnie Mae, which is directly owned by the U.S. Department of Housing and Urban Development. U.S. GSE obligations are not explicitly guaranteed as to the timely payment of principal and interest by the full faith and credit of the U.S. government.

U.S. Treasury: U.S. Department of the Treasury

VA: U.S. Department of Veterans Affairs

VaR: "Value-at-risk" is a measure of the dollar amount of potential loss from adverse market moves in an ordinary market environment.

VIEs: Variable interest entities

Warehouse loans: consist of prime mortgages originated with the intent to sell that are accounted for at fair value and classified as trading assets.

Washington Mutual transaction: On September 25, 2008, JPMorgan Chase acquired certain of the assets of the banking operations of Washington Mutual Bank ("Washington Mutual") from the FDIC.

CONSUMER & COMMUNITY BANKING ("CCB")

Debit and credit card sales volume: Dollar amount of cardmember purchases, net of returns.

Deposit margin/deposit spread: represents net interest income expressed as a percentage of average deposits.

Home Lending Production and Home Lending Servicing revenue comprises the following:

Net production revenue: includes net gains or losses on originations and sales of mortgage loans, other production-related fees and losses related to the repurchase of previously-sold loans.

Net mortgage servicing revenue: includes the following components:

- a) Operating revenue predominantly represents the return on Home Lending Servicing's MSR asset and includes:
 - Actual gross income earned from servicing third-party mortgage loans, such as contractually specified servicing fees and ancillary income; and
 - The change in the fair value of the MSR asset due to the collection or realization of expected cash flows.
- b) Risk management represents the components of Home Lending Servicing's MSR asset that are subject to ongoing risk management activities, together with derivatives and other instruments used in those risk management activities.

Mortgage origination channels comprise the following:

Retail: Borrowers who buy or refinance a home through direct contact with a mortgage banker employed by the Firm using a branch office, the Internet or by phone. Borrowers are frequently referred to a mortgage banker by a banker in a Chase branch, real estate brokers, home builders or other third parties.

Correspondent: Banks, thrifts, other mortgage banks and other financial institutions that sell closed loans to the Firm.

Card Services: includes the Card and Merchant Services businesses.

Card: is a business that primarily issues credit cards to consumers and small businesses.

Merchant Services: is a business that primarily processes transactions for merchants.

Net revenue rate: represents Card Services net revenue (annualized) expressed as a percentage of average loans for the period.

Auto loan and lease origination volume: Dollar amount of auto loans and leases originated.

CORPORATE & INVESTMENT BANK ("CIB")

Definition of selected CIB revenue:

Investment Banking: incorporates all revenue associated with investment banking activities, and is reported net of investment banking revenue shared with other lines of business.

Treasury Services: offers a broad range of products and services that enable clients to manage payments and receipts, as well as invest and manage funds. Products include U.S. dollar and multi-currency clearing, ACH, lockbox, disbursement and reconciliation services, check deposits, and currency-related services.

Lending: includes net interest income, fees, gains or losses on loan sale activity, gains or losses on securities received as part of a loan restructuring, and the risk management results related to the credit portfolio. Lending also includes Trade Finance, which includes loans tied directly to goods crossing borders, export/import loans, commercial letters of credit, standby letters of credit, and supply chain finance.

Fixed Income Markets: primarily includes revenue related to market-making across global fixed income markets, including foreign exchange, interest rate, credit and commodities markets.

Equity Markets: primarily includes revenue related to market-making across global equity products, including cash instruments, derivatives, convertibles and prime brokerage.

Securities Services: primarily includes custody, fund accounting and administration, and securities lending products sold principally to asset managers, insurance companies and public and private investment funds. Also includes clearance, collateral management and depositary receipts business which provides broker-dealer clearing and custody services, including tri-party repo transactions, collateral management products, and depositary bank services for American and global depositary receipt programs.

Description of certain business metrics:

Assets under custody ("AUC"): represents activities associated with the safekeeping and servicing of assets on which Securities Services earns fees.

Investment banking fees: represents advisory, equity underwriting, bond underwriting and loan syndication fees.

COMMERCIAL BANKING ("CB")

CB is divided into four primary client segments: Middle Market Banking, Corporate Client Banking, Commercial Term Lending, and Real Estate Banking.

Middle Market Banking: covers corporate, municipal and nonprofit clients, with annual revenue generally ranging between \$20 million and \$500 million.

Corporate Client Banking: covers clients with annual revenue generally ranging between \$500 million and \$2 billion and focuses on clients that have broader investment banking needs.

Commercial Term Lending: primarily provides term financing to real estate investors/owners for multifamily properties as well as office, retail and industrial properties.

Real Estate Banking: provides full-service banking to investors and developers of institutional-grade real estate investment properties.

Other: primarily includes lending and investment-related activities within the Community Development Banking business.

CB product revenue comprises the following:

Lending: includes a variety of financing alternatives, which are primarily provided on a secured basis; collateral includes receivables, inventory, equipment, real estate or other assets. Products include term loans, revolving lines of credit, bridge financing, asset-based structures, leases, and standby letters of credit.

Treasury services: includes revenue from a broad range of products and services that enable CB clients to manage payments and receipts, as well as invest and manage funds.

Investment banking: includes revenue from a range of products providing CB clients with sophisticated capital-raising alternatives, as well as balance sheet and risk management tools through advisory, equity underwriting, and loan syndications. Revenue from fixed income and equity market products used by CB clients is also included.

Other: product revenue primarily includes tax-equivalent adjustments generated from Community Development Banking activity and certain income derived from principal transactions.

ASSET & WEALTH MANAGEMENT ("AWM")

Assets under management ("AUM"): represent assets managed by AWM on behalf of its Private Banking, Institutional and Retail clients.

Client assets: represent assets under management, as well as custody, brokerage, administration and deposit accounts.

Multi-asset: Any fund or account that allocates assets under management to more than one asset class.

Alternative assets: The following types of assets constitute alternative investments – hedge funds, currency, real estate, private equity and other investment funds designed to focus on nontraditional strategies.

AWM's lines of business consist of the following:

Asset Management: provides comprehensive global investment services - including asset management, pension analytics, asset-liability management and active risk-budgeting strategies.

Wealth Management: offers investment advice and wealth management, including investment management, capital markets and risk management, tax and estate planning, banking, lending and specialty-wealth advisory services.

AWM's client segments consist of the following:

Private Banking: clients include high- and ultra-high-networth individuals, families, money managers, business owners and small corporations worldwide.

Institutional: clients include both corporate and public institutions, endowments, foundations, nonprofit organizations and governments worldwide.

Retail: clients include financial intermediaries and individual investors.

Asset Management has two high-level measures of its overall fund performance:

Percentage of mutual fund assets under management in funds rated 4- or 5-star: Mutual fund rating services rank funds based on their risk-adjusted performance over various periods. A 5-star rating is the best rating and represents the top 10% of industry-wide ranked funds.

A 4-star rating represents the next 22.5% of industry-wide ranked funds. A 3-star rating represents the next 35% of industry-wide ranked funds. A 2-star rating represents the next 22.5% of industry-wide ranked funds. A 1-star rating is the worst rating and represents the bottom 10% of industry-wide ranked funds. The "overall Morningstar rating" is derived from a weighted average of the performance associated with a fund's three-, five- and tenyear (if applicable) Morningstar Rating metrics. For U.S. domiciled funds, separate star ratings are given at the individual share class level. The Nomura "star rating" is based on three-year risk-adjusted performance only. Funds with fewer than three years of history are not rated and hence excluded from this analysis. All ratings, the assigned peer categories and the asset values used to derive this analysis are sourced from these fund rating providers. The data providers re-denominate the asset values into U.S. dollars. This % of AUM is based on star ratings at the share class level for U.S. domiciled funds, and at a "primary share class" level to represent the star rating of all other funds except for Japan where Nomura provides ratings at the fund level. The "primary share class", as defined by Morningstar, denotes the share class recommended as being the best proxy for the portfolio and in most cases will be the most retail version (based upon annual management charge, minimum investment, currency and other factors). The performance data could have been different if all funds/ accounts would have been included. Past performance is not indicative of future results.

Percentage of mutual fund assets under management in funds ranked in the 1st or 2nd quartile (one, three, and five years): All quartile rankings, the assigned peer categories and the asset values used to derive this analysis are sourced from the fund ranking providers. Quartile rankings are done on the net-of-fee absolute return of each fund. The data providers re-denominate the asset values into U.S. dollars. This % of AUM is based on fund performance and associated peer rankings at the share class level for U.S. domiciled funds, at a "primary share class" level to represent the quartile ranking of the U.K., Luxembourg and Hong Kong funds and at the fund level for all other funds. The "primary share class", as defined by Morningstar, denotes the share class recommended as being the best proxy for the portfolio and in most cases will be the most retail version (based upon annual management charge, minimum investment, currency and other factors). Where peer group rankings given for a fund are in more than one "primary share class" territory both rankings are included to reflect local market competitiveness (applies to "Offshore Territories" and "HK SFC Authorized" funds only). The performance data could have been different if all funds/ accounts would have been included. Past performance is not indicative of future results.

<u>Item 3. Quantitative and Qualitative Disclosures About</u> Market Risk.

For a discussion of the quantitative and qualitative disclosures about market risk, refer to the Market Risk Management section of Management's discussion and analysis and pages 121-128 of JPMorgan Chase's 2017 Annual Report.

Item 4. Controls and Procedures.

As of the end of the period covered by this report, an evaluation was carried out under the supervision and with the participation of the Firm's management, including its Chairman and Chief Executive Officer and its Chief Financial Officer, of the effectiveness of its disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934). Based on that evaluation, the Chairman and Chief Executive Officer and the Chief Financial Officer concluded that these disclosure controls and procedures were effective. Refer to Exhibits 31.1 and 31.2 for the Certification statements issued by the Chairman and Chief Executive Officer and Chief Financial Officer.

The Firm is committed to maintaining high standards of internal control over financial reporting. Nevertheless, because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. In addition, in a firm as large and complex as JPMorgan Chase, lapses or deficiencies in internal controls do occur from time to time, and there can be no assurance that any such deficiencies will not result in significant deficiencies or material weaknesses in internal controls in the future. For further information, refer to "Management's report on internal control over financial reporting" on page 146 of JPMorgan Chase's 2017 Annual Report. There was no change in the Firm's internal control over financial reporting (as defined in Rule 13a-15(f) under the Securities Exchange Act of 1934) that occurred during the three months ended June 30, 2018, that has materially affected, or is reasonably likely to materially affect, the Firm's internal control over financial reporting.

Part II - Other Information

Item 1. Legal Proceedings.

For information that updates the disclosures set forth under Part I, Item 3: Legal Proceedings, in JPMorgan Chase's 2017 Annual Report on Form 10-K, refer to the discussion of the Firm's material legal proceedings in Note 22 of this Form 10-0.

Item 1A. Risk Factors.

For a discussion of certain risk factors affecting the Firm, refer to Part I, Item 1A: Risk Factors on pages 8-26 of JPMorgan Chase's 2017 Annual Report on Form 10-K and Forward-Looking Statements on page 83 of this Form 10-Q.

Supervision and regulation

For information on Supervision and Regulation, refer to Recent regulatory developments on page 44 of this Form 10-Q and the Supervision and regulation section on pages 1-8 of JPMorgan Chase's 2017 Form 10-K.

<u>Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.</u>

The Firm did not have any unregistered sale of equity securities during the three months ended June 30, 2018.

Repurchases under the common equity repurchase program

Following receipt in June 2018 of the Federal Reserve's non-objection to the Firm's 2018 capital plan, the Firm's Board of Directors authorized the repurchase of up to \$20.7 billion of common equity (common stock and warrants) between July 1, 2018 and June 30, 2019. This authorization includes shares repurchased to offset issuances under the Firm's equity-based compensation plans. The following table sets forth the Firm's repurchases of common equity for the three and six months ended June 30, 2018 and 2017. There were no warrants repurchased during the three and six months ended June 30, 2018 and 2017.

	Th	Three months ended June 30,				ended),		
(in millions)		2018		2017		2018		2017
Total shares of common stock repurchased		45.3		35.0		86.7		67.1
Aggregate common stock repurchases	\$	4,968	\$	3,007	\$	9,639	\$	5,839

The Firm may, from time to time, enter into written trading plans under Rule 10b5-1 of the Securities Exchange Act of 1934 to facilitate repurchases in accordance with the common equity repurchase program. A Rule 10b5-1 repurchase plan allows the Firm to repurchase its equity during periods when it would not otherwise be repurchasing common equity — for example, during internal trading blackout periods. All purchases under Rule 10b5-1 plans must be made according to predefined plans established when the Firm is not aware of material nonpublic information.

The authorization to repurchase common equity will be utilized at management's discretion, and the timing of purchases and the exact amount of common equity that may be repurchased is subject to various factors, including market conditions; legal and regulatory considerations affecting the amount and timing of repurchase activity; the Firm's capital position (taking into account goodwill and intangibles); internal capital generation; and alternative investment opportunities. The repurchase program does not include specific price targets or timetables; maybe executed through open market purchases or privately negotiated transactions, or utilizing Rule 10b5-1 programs; and may be suspended at any time.

Shares repurchased pursuant to the common equity repurchase program during the six months ended June 30, 2018, were as follows.

Six months ended June 30, 2018	Total shares of common stock repurchased	Average price paid per share of common stock ^(a)		Aggregate repurchases of common equity (in millions) ^(a)		Dollar value of remaini authorized repurchas (in millions) ^(a)		
First quarter	41,419,035	\$	112.78	\$	4,671	\$	5,156	(b)
April	17,162,364		110.49		1,896		3,260	
May	14,810,601		110.28		1,633		1,627	
June	13,326,405		107.93		1,439		188	
Second quarter	45,299,370		109.67		4,968		188	(c)
Year-to-date	86,718,405	\$	111.15	\$	9,639	\$	188	

- (a) Excludes commissions cost.
- (b) Represents the amount remaining under the \$19.4 billion repurchase program that was authorized by the Board of Directors on June 28, 2017.
- (c) The \$188 million unused portion under the prior Board authorization was canceled when the \$20.7 billion program was authorized.

Item 3. Defaults Upon Senior Securities.

None.

Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

None.

Item 6. Exhibits.

Exhibit No.	Description of Exhibit
15	Letter re: Unaudited Interim Financial Information. (a)
31.1	Certification. (a)
31.2	Certification. (a)
32	Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. (b)
101.INS	XBRL Instance Document. (a)(c)
101.SCH	XBRL Taxonomy Extension Schema Document. (a)
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document. (a)
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document. (a)
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.(a)
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.(a)

⁽a) Filed herewith.

⁽b) Furnished herewith. This exhibit shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that Section. Such exhibit shall not be deemed incorporated into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934.

⁽c) Pursuant to Rule 405 of Regulation S-T, includes the following financial information included in the Firm's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2018, formatted in XBRL (eXtensible Business Reporting Language) interactive data files: (i) the Consolidated statements of income (unaudited) for the three and six months ended June 30, 2018 and 2017, (ii) the Consolidated statements of comprehensive income (unaudited) for the three and six months ended June 30, 2018 and 2017, (iii) the Consolidated balance sheets (unaudited) as of June 30, 2018, and December 31, 2017, (iv) the Consolidated statements of changes in stockholders' equity (unaudited) for the six months ended June 30, 2018 and 2017, (v) the Consolidated statements of cash flows (unaudited) for the six months ended June 30, 2018 and 2017, and (vi) the Notes to Consolidated Financial Statements (unaudited).

SIGNATURE

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.

	JPMorgan Chase & Co.							
	(Registrant)							
Ву:	/s/ Nicole Giles							
	Nicole Giles							
	Managing Director and Corporate Controller							
	(Principal Accounting Officer)							

Date: August 1, 2018

INDEX TO EXHIBITS

Exhibit No.	Description of Exhibit
15	Letter re: Unaudited Interim Financial Information.
31.1	Certification.
31.2	Certification.
32	Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.†
101.INS	XBRL Instance Document.
101.SCH	XBRL Taxonomy Extension Schema Document.
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.
†	This exhibit shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that Section. Such exhibit shall not be deemed incorporated into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934.



August 1, 2018

Securities and Exchange Commission 100 F Street, N.E. Washington, DC 20549

Re: JPMorgan Chase & Co.

Registration Statements on Form S-3

(No. 333-222672) (No. 333-222672-01) (No. 333-209681)

Registration Statements on Form S-8

(No. 333-219702)

(No. 333-219701)

(No. 333-219699)

(No. 333-185584)

(No. 333-185582)

(No. 333-185581)

(No. 333-175681)

(No. 333-158325)

(No. 333-145108)

(No. 333-142109)

(No. 333-125827)

(No. 333-112967)

Commissioners:

We are aware that our report dated August 1, 2018 on our review of interim financial information of JPMorgan Chase & Co. and its subsidiaries (the "Firm"), which appears in this Quarterly Report on Form 10-Q, is incorporated by reference in the Registration Statements of the Firm referred to above. Pursuant to Rule 436(c) under the Securities Act of 1933, such report should not be considered a part of such Registration Statements, and is not a report within the meaning of Sections 7 and 11 of that Act.

Very truly yours,

Processate Charge Ceopers LLP

PricewaterhouseCoopers LLP, 300 Madison Avenue, New York, NY 10017

Exhibit 31.1

JPMorgan Chase & Co.

CERTIFICATION

I, James Dimon, certify that:

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

Date: August 1, 2018

/s/ James Dimon

James Dimon Chairman and Chief Executive Officer

Exhibit 31.2

JPMorgan Chase & Co.

CERTIFICATION

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

Date: August 1, 2018

/s/ Marianne Lake

Marianne Lake
Executive Vice President and Chief Financial Officer

Exhibit 32

JPMorgan Chase & Co.

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 JPMorgan Chase & Co. on Form 10-Q for the period ended June 30, 2018 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers of JPMorgan Chase & Co., 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 JPMorgan Chase & Co.

Date: August 1, 2018

By: /s/ James Dimon

Chairman and Chief Executive Officer

Date: August 1, 2018

By: /s/ Marianne Lake

Marianne Lake

Executive Vice President and Chief Financial Officer

This certification accompanies this Quarterly Report on Form 10-Q and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that Section.

A signed original of this written statement required by Section 906 has been provided to, and will be retained by, JPMorgan Chase & Co. and furnished to the Securities and Exchange Commission or its staff upon request.